# YEAR BOOK 2015

## **INDIAN ACADEMY OF SCIENCES**



YEAR BOOK 2015

## **Postal Address**

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#### **MEMORANDUM OF ASSOCIATION\***

- I. The name of the Association shall be 'The Indian Academy of Sciences'.
  - II. The objects of the Academy are:
- 1. To promote the progress and uphold the cause of science, both in pure and applied branches.
- 2. To co-operate with the existing Provincial Academies having similar objects, and with others when founded.
- 3. To encourage and publish important researches in the branches of science comprehended by the Academy and to represent internationally the scientific work of India.
- 4. To undertake, control and direct scientific enterprises of all-India significance and to participate in similar international activities.
- 5. To collect, sort out and disseminate information concerning the industrial, economic and labour problems relating to India and other progressive countries.
- 6. To publish books, memoirs, journals, proceedings and transactions relating to scientific researches in pure and applied branches initiated by the Academy and those conducted under the direction of Provincial Academies, the Universities and Government Scientific Institutions.
- 7. To organise and arrange for the meetings of the Congresses, Committees and Conferences for reading and discussing papers submitted to the Academy, advising Government and other bodies on scientific and other matters referred to the Academy and to co-operate with the National Research Council when instituted.
- 8. To secure and administer funds, grants and endowments for the furtherance of scientific research.

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<sup>\*</sup>Registered on 27 April 1934 under the Societies Registration Act, 1860.

- 9. To undertake and execute all other acts which shall assist in and promote the usefulness, aims and purposes of the Academy.
- III. The Academy shall not make any profit nor award bonus to any of its members but may pay remuneration to the members of its permanent staff. In addition, it may make awards of prizes and research grants to individuals and organisations for the advancement of scientific knowledge.
- IV. Fellows of Academy are entitled to use the letter 'FASc' after their names as the recognized abbreviation indicative of their fellowship.

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## **ROLE OF THE ACADEMY\***

Science has emerged today as the most revolutionary co-operative activity of mankind. In the scientific method lies a validity and universality which transcends any other principle devised by man. Science seeks and discovers, cutting across sectarian, national and ideological frontiers. It fosters co-operation and generates a value system which nurtures man's highest capabilities and aspirations.

The Indian Academy of Sciences, founded in 1934 by Professor C.V. Raman, Nobel Laureate, endeavours by all means at its disposal to promote the progress and uphold the cause of science, both in pure and applied branches. The Academy has laid the responsibility on all its Fellows, individually and collectively, of promoting original research and of disseminating scientific knowledge to the community, through its activities of organizing meetings, discussions, seminars, symposia and publications. The Academy recognizes the special relationship of scientific creative activity with the process of education and holds that the course of discovery includes the identification and nurturing of scientific talent amongst the young. Aware of the fundamental contributions science and technology can and must make to national regeneration, the Academy upholds that the principle of social responsibility for all scientific effort, individual or corporate, is entirely consistent with individual freedom and that the quest for knowledge and truth cannot be reconciled with any dogma.

In order to meet the needs of the times, the Council of the Academy has carefully considered the steps to be taken to further the objects of the Academy. Taking cognizance of the enormous and continuing increase in scientific knowledge and the application of this knowledge virtually to every sphere of human activity, and considering the growth of scientific activity within India and the numbers of scientific institutions and scientists working in various fields, the Council has, as a first step, expanded the Fellowship, in order to have within the Academy a fuller representation of the Indian scientific community in

<sup>\*</sup>Prepared in 1975 by a committee appointed by the President and approved by the President in Council.

its corporate body so that the objectives and obligations of the Academy could be more effectively fulfilled. The other steps proposed are aimed at:

- (a) ensuring that there is full representation in the Academy of all branches of science, fundamental and applied;
- (b) placing special emphasis on bringing into the fold of the Academy, through election to the Fellowship, outstanding young scientists;
- (c) promoting high quality journals in order to provide publication opportunities to Indian scientists at the international level:
- (d) conducting symposia and seminars and encouraging other similar activities in order to provide means of exchange of scientific knowledge among scientists and to bring new knowledge to the attention of the whole scientific community;
- (e) recognizing further, and honouring excellence in various areas of science by the institution of special awards (in the form of medals, lectureships, etc.);
- (f) giving special encouragement to young scientists by the award of scholarships and fellowships to enable them to pursue their particular interests;
- (g) promoting international understanding in science through the institution of special chairs and professorships, which will allow scientists from abroad to visit India for specific periods and provide means for travel for Indian scientists to visit other countries;
- (h) taking up integrated studies in specific fields where co-ordinated scientific activities tend to be neglected.

The Academy affirms that the rightful place for science and the men who rigorously cultivate it can be assured in society primarily through their devotion to the principles of objectivity, integrity and freedom from dogmas rather than through any formal processes of recognition. Not unmindful of the crucial role the Academy can play in national regeneration, the Academy adheres to the belief that this ideal would be best served by preserving the independence of the Academy from all official, State or Organization-related channels.

In a situation where almost every facet of life needs to be revitalized retaining a clear perspective for the nurturing of the scientific temper is of the utmost importance. In a country beset with prejudices, rules and bureaucratic formalisms, it is of the greatest value that working scientists, specially Fellows of the Academy, promote by personal as well as collective example, the principle of rational thought of function and relevance, rather than precedents. By applying rigorous standards of scientific criticism at all levels in a constructive sense, the Academy considers that the scientific community has a unique contribution to make not only to the flowering of science in India but also to national character.

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#### STATUTES\*

#### I. MEMBERSHIP

1. The Academy shall consist of Fellows and Honorary Fellows. A record shall be maintained in the Office of the Academy of their names, the dates of their election, and their signatures in token of formal admission to the Academy.

#### Fellows

2. The Council shall from time to time regulate the size of the Fellowship keeping the General Body informed of any changes, and not more than 35 Fellows shall normally be elected each year.

#### Honorary Fellows

- 3. Honorary Fellows are persons who have been elected as such by the Academy by reason of their distinguished contributions to science.
- 4. There shall be not more than sixty Honorary Fellows at any time and not more than three shall be elected in any one year. Scientists of all nations are eligible for election as Honorary Fellows.

#### II. FINANCES AND RESOURCES

#### Fees<sup>†</sup>

- 5. Every Fellow shall, on admission, pay an admission fee of Rs 100 and a life composition fee of Rs 2,500 as a single sum totaling Rs 2,600. This should be paid within three months of the date of their admission. Only Fellows who have paid their dues within the prescribed period will be considered as in good standing.
- 6. Fellows who have paid life composition before the revised Statutes came into force in May 1977 will continue to enjoy all privileges without any further payment.

#### Subventions

7. The Academy may accept annual grants from the Central and State Governments, Corporate Bodies, Industrial and Commercial Organizations, Universities and other Bodies.

<sup>\*</sup>Approved in revised form by the Fellowship in 1976.

<sup>&</sup>lt;sup>†</sup>Amendment approved in 2014

#### **Donations**

8. The Academy may accept donations from Central and State Governments, Corporate Bodies, Industrial Organizations, Universities and individuals interested in promoting scientific advancement.

#### Subscriptions

9. Subscriptions or proceeds realized from the sale of the Academy's publications shall form a source of revenue.

#### III. LOCATION

10. The Office of the Academy shall be located at its premises in Bangalore.

#### IV. MANAGEMENT OF AFFAIRS

11. The affairs and property of the Academy shall be administered by a Council of 20, consisting of the President, four Vice-Presidents, a Treasurer, two Secretaries, and twelve other members. The Council shall be elected by the Fellows triennially.

#### V. ELECTIONS

12. Election to the Fellowship, to the Honorary Fellowship and to the Council of the Academy shall be by electronic or postal ballot, the procedure for such ballot being as stated below. The Council may, however, in its discretion make such changes in it and in the calendar of dates, as it deems fit from time to time. No procedural irregularity not affecting the merits shall vitiate any election or proceedings.

#### Fellows

- 13. Nomination papers for the Fellowship shall be received at the Office of the Academy by the 31st day of May of each year.
- 14. Every candidate for Fellowship shall be proposed and recommended by two Fellows in good standing, one of whom shall undertake the responsibility of acting as proposer and the other one as seconder respectively, in so far that all communications on the subject of the candidature shall take place with one of these. The proposal, which will be in the prescribed form, shall specify the name, position, qualifications and usual place of residence of the candidate. It shall also include a statement by the proposer setting out the discovery, invention

or other outstanding contributions to knowledge made by the candidate. A list of the scientific publications by the candidate may also be sent as a separate statement attached to this form. The form shall bear the signatures of the proposer and seconder. It will, however, be open to any Fellow to indicate his support of the candidate by writing directly to the Office of the Academy by the 31st of May. The proposer shall be responsible for informing the candidate of the obligation to be subscribed to and of the payments to be made to the Academy on being admitted as a Fellow.

- 15. A consolidated list of candidates whose nomination papers are in order, as also of the candidates nominated but not elected in the two preceding years, shall be prepared by the Office of the Academy, the names being arranged in alphabetical order, and sent to the Fellows before the second week of November, together with a brief account of the qualifications of the candidates.
- 16. The list of nominations shall be considered by the Council at a meeting held for the purpose and the Council shall recommend for election names of not more than 35 candidates from the list. The names recommended by the Council for election shall be sent in a balloting paper to all the Fellows, by the second week of December. Any Fellow is at liberty to delete from the balloting list any of the names recommended by the Council. He may also substitute for the names thus deleted any other names from the list of valid nominations circulated to the Fellows previously. The balloting paper shall be returned duly signed by the Fellow indicating his choice, in the addressed envelope accompanying the balloting paper, so as to reach the Office of the Academy by the 31st day of December.
- 17. Two Fellows of the Academy shall be appointed by the President as scrutators; they shall open the envelopes containing the balloting papers and report the results of the ballot to the President. Every person, whose name has been validly voted for in the majority of the balloting papers received by the Academy before the appointed date, will be declared by the President to have been elected.
- 18. Every Fellow thus elected shall be informed in a written communication of his election and the Fellow shall, within three months of receiving the communication, return the undermentioned obligation form duly signed by him, together with the admission fee and the annual fee. Failure to do so will entail the invalidation of his election. The Council

shall, however, have power to condone the default and admit him to the Fellowship if he pays his admission fee and the first annual fee before the end of the calendar year in which his election was communicated to him.

#### Form of obligation

'I who have hereunto subscribed do hereby promise for myself that I will endeavour to promote the cause, the aims and objects of the Indian Academy of Sciences for which it is founded; that I will be present at the meetings of the Academy as often as I can, especially at the Annual General Meetings and at Emergency Meetings; and that I will observe the statutes, ethical guidelines, rules and standing orders of the said Academy.'

19. No candidate who is elected shall be regarded as a Fellow or be entitled to exercise the rights and privileges of Fellowship until he has paid his admission fee and his first annual fee, and until he has signed and returned the obligation form.

#### Honorary Fellows

- 20. Any Fellow in good standing may propose any person distinguished for his contributions to science for election as an Honorary Fellow. The proposal shall be in writing accompanied by a statement of facts supporting the proposal and it shall be received in the Office of the Academy not later than the 15th day of October.
- 21. These names shall be added to the list of previous proposals maintained in the Office of the Academy, provided that a nomination shall lapse at the expiry of three years from the date of nomination and the name thereof shall be deleted from the list. The list will be open for inspection by the Fellows. From this list the Council shall select and recommend not more than three persons subject to the total of 60 specified in Statute 4 for election as Honorary Fellows of the Academy in that year. A balloting paper containing the names thus selected and recommended shall be sent to all the Fellows by the second week of December. It shall be returned duly signed by the Fellow, indicating his choice, in the addressed envelope accompanying the balloting paper to the Office of the Academy by the 31st day of December. Any Fellow may, if he so desires, delete any of the recommended names from the balloting list. The rest of the voting procedures shall, as far as may, be the same as in the case of the election of Fellows.

#### The Council

- 22. During the year in which elections to the Council become due, that fact shall be notified to the Fellows by the Secretary concerned, by the 31st day of August of that year and nominations invited from them in the prescribed form. Nominations for the President and other members of the Council shall be filed not later than the 15th day of October.
- 23. The list of nominations shall be considered by the Council at a meeting held for the purpose. The President and the Council shall then select not more than 15 from among the existing Council members and not less than 5 Fellows who have not been members of the existing Council, and recommend them to the Fellows for election to the Council for the ensuing triennium. The President and the Council shall also in like manner select, out of the proposed Council, the persons whom they recommend to the Fellows, for election to the offices of the President and the Vice-Presidents for the ensuing triennium. The list of candidates thus recommended by the Council shall be printed in a balloting paper and sent to all the Fellows by the second week of December.
- 24. The balloting paper shall be returned by the Fellows indicating their choice duly signed to the Office of the Academy, by the 31st day of December. Any Fellow may, if he so desires, delete any of the recommended names from the balloting list. The rest of the procedure laid down for the election of Fellows shall, as far as may, apply to the election of the Council.
- 25. Any casual vacancies that may occur in the Council during a triennium, either due to death, resignation or other causes, may be filled by the President from amongst the Fellows for the rest of the term of office.
- 26. If a vacancy arises in the office of the President, one of the Vice-Presidents in consultation with the other Vice-Presidents shall, as soon as possible, and in any case not later than three months of the vacancy occurring, cause the Council to be summoned for the election of a new President. The Council thereupon shall proceed to elect a new President.
- 27. Any vacancy occurring in the office of Vice-Presidents, Secretaries or the Treasurer shall be filled by the President from amongst the Fellows for the rest of the term of office.

#### VI. THE PRESIDENT

- 28. The President shall be the Chairman of the Council; he shall also be the Chairman of all General Meetings of the Academy. The President shall be in administrative charge of the Academy, its properties and affairs subject to the provisions of Statute 37. The President elected for a triennium shall continue to hold office till a President elected for the succeeding triennium assumes charge of his office.
- 29. In the absence of the President, one of the Vice-Presidents nominated by him shall act as his deputy and may do all such acts as the President himself could do if present. If the President has not so nominated his deputy, the Council shall do so and the Vice-President so nominated by the Council shall act as the deputy of the President and may do all such acts as the President himself could do if present.
- 30. In case of doubt as to the interpretation of any of the Statutes, the President's interpretation shall hold good until the Council decides otherwise.

#### **VII. THE VICE-PRESIDENTS**

31. They shall exercise such powers as may from time to time be delegated to them either by the President or by the Council.

#### **VIII. THE TREASURER**

- 32. The Council shall nominate from amongst its members a Treasurer who shall be responsible to the Council for the general conduct of the Academy's finances and resources. He shall receive for the use of the Academy all sums of money due or payable to the Academy; and shall pay and disburse all sums due from or payable by the Academy; and shall keep a correct account of all receipts and payments. He may, with the approval of the President, appoint a person to carry out his duties in his absence.
- 33. The Treasurer shall prepare every year a list of the names of those Fellows who may be in arrears of their subscriptions for more than eight months and shall submit it for the orders of the Council at its meeting in December.

#### IX. THE SECRETARIES

34. The Council shall nominate from amongst its members, two Secretaries, who shall be responsible to the Council for the general conduct of the Academy's correspondence, and all other business excepting those which relate to finances. They shall also be responsible for calling meetings of the Council and General Meetings of the Academy and for the recording and reading of the Minutes of the respective bodies and for carrying out the decisions of the Council except those relating to finance. The allocation of duties and responsibilities between the two Secretaries shall be made by the President.

#### X. THE COUNCIL

35. All property, movable, immovable and others, belonging to the Academy shall vest in the Council and it shall have full power and authority to deal with, encumber and dispose of the same for the purpose of the Academy as it deems fit. The Council shall be entitled to exercise all such powers and do all such acts and things as the Academy is authorized to exercise and do.

#### XI. MEETINGS

- 36. Meetings of the Council shall be held at the premises of the Academy or at any other suitable place as often as may be necessary and at least two of these shall be held in the premises of the Academy in Bangalore; one during the months of June–July; the other during the months of November–December. The latter meeting shall consider the election of new Fellows each year and members of the Council every three years. Notice of meetings of the Council shall be sent by post to the members at least two weeks in advance.
- 37. Seven members of the Council shall form a quorum for its meetings. If at the time announced for the commencement of a meeting the quorum is not present, then the meeting shall stand adjourned by half an hour and the meeting shall then take place, the number of members present forming the quorum for the meeting, provided that at least the President and two other members are present. All decisions shall be by a simple majority of votes. The President shall have a casting vote in the event of equality of votes. Decisions may also be taken by the Council through circulation of papers.

- 38. Twenty Fellows shall constitute a quorum for any General Meeting of the Academy. If at the time announced for the commencement of a meeting the quorum is not present, then the meeting shall stand adjourned by half an hour and the meeting shall then take place, the number of members present forming the quorum for the meeting, provided that at least the President and ten other Fellows are present.
- 39. There shall be an Annual General Meeting of the Academy at the Headquarters or at a centre to be decided by the Council, notice of which shall ordinarily be given to the Fellows one month in advance.
- 40. The President shall have the power to call an emergency meeting of the Fellows at the premises of the Academy in Bangalore or at a place decided by the President. Such an emergency meeting shall be summoned by the President on a written request signed by 25 Fellows. Notice of such emergency meetings shall be sent by post to all the Fellows at least one week in advance.
- 41. Ordinary meetings of the Academy for the formal presentation of papers as well as special meetings for symposia and public lectures will be held from time to time at the premises of the Academy or at other centres as decided by the Council.
- 42. Accidental omission to issue the notice for a meeting or its non-receipt by a member shall not invalidate the meeting or its proceedings.

#### XII. PUBLICATIONS

- 43. The *Proceedings of the Indian Academy of Sciences* shall be published by the Academy.
- 44. The Council may issue such other publications as may be deemed necessary.
- 45. The Council shall nominate from amongst the Fellows an Editor (or Editors) of Publications, who will be responsible to the Council for the conduct of all the publications issued by the Academy. He (they) may be invited to the Council meetings when matters relating to publications are discussed, if he (they) is (are) not a member(s) of the Council.

#### XIII. PRIVILEGES OF FELLOWS

- 46. Only Fellows in good standing shall have the following rights and privileges:
- (a) to propose, recommend and vote for candidates for the Fellowship and Honorary Fellowship;
- (b) to vote, nominate and be nominated for election to the Council;
- (c) to attend and vote at all General Meetings;
- (d) to receive copies of the *Proceedings* of the Academy and other publications of the Academy free or on such terms regarding payment as the Council may from time to time decide.

#### XIV. CESSATION OF THE FELLOWSHIP

- 47. Fellowship and Honorary Fellowship shall cease by death, resignation or removal.
- 48. When any Fellow shall have omitted to pay the subscription for two successive years, the Council shall cause a registered letter to be sent to him, directed to his last known address informing him of the amount of the sums due by him and if the dues remain unpaid for a period of six months from the date of despatch of such a letter, he is liable to be removed from membership by the Council. The Council, however, has the power to reinstate him, if all the dues are paid by him within six months of the removal.
- 49. If any Fellow of the Academy acts in such a manner which is in fact and in spirit derogatory and contrary to the objects of the Academy, he shall be removed from the Fellowship.
- 50. Whensoever there shall appear to be cause for the removal of any Fellow, the subject shall be laid before the Council; and if a majority of the Council shall, after due deliberation, recommend that the Fellow be removed, the President shall in that case, at the General Meeting of the Academy next following, announce from the chair, the recommendation by the Council; and at the General Meeting of the Academy next after that at which the said announcement has been made, the Fellows shall proceed to deliberate on the question and vote on it. If two thirds of the Fellows present have voted for the removal of the said Fellow from the

Fellowship, the President shall proceed to cancel his name in the register of Fellows and such cancellation shall be effective from that date.

#### XV. LOCAL CENTRES

51. Local centres may be formed with the previous approval of the Council in any place where ten or more Fellows of the Academy are ordinarily resident and desire to form a local centre.

#### XVI. AUDITOR

52. The Council shall appoint annually an Auditor for checking the account books and for certifying the accuracy of receipts and expenditure.

#### XVII. STANDING ORDERS OF THE ACADEMY

53. The Council may from time to time issue Standing Orders for the regulation of the affairs of the Academy, provided that such Standing Orders be not contrary to anything contained in the Memorandum of Association and the Statutes of the Academy. Such Standing Orders may be made, amended or replaced at any meeting of the Council.

#### XVIII. MAKING, AMENDING AND REPEALING OF STATUTES

- 54. The Statutes may be added to, amended or repealed if a resolution to that effect is passed by the Fellows at a meeting specifically called for the purpose and the votes cast in favour of the resolution are not less than two times the number of votes cast against it.
- 54-A (i) The Academy may sue and be sued in its own name and be represented in all legal matters by the Executive Secretary. However, the President, with the approval of the Council, may authorize one or more office bearers/officials of the Academy to represent the Academy in such legal matters.
- (ii) The ordinary legal original jurisdiction in respect of disputes in which the Academy is a party, shall be Bangalore City.

- (iii) It shall be lawful for the Academy to obtain consent of the concerned as regards submission to the condition of legal jurisdiction at Bangalore City alone by way of subscription of signature of such concerned to a prescribed format in token of acceptance of the said condition before the Academy undertakes any act or function with such concerned.
- (iv) The condition as to the legal jurisdiction referred to in clause (ii) above shall be incorporated by the Academy in places expedient to it, in the following words, namely.

"The legal jurisdiction of the Indian Academy of Sciences, Bangalore, is Bangalore City and the courts at Bangalore City alone".

#### XIX. DISSOLUTION

55. In the event of dissolution or winding up of the Academy, the assets remaining as on the date of dissolution shall under no circumstances be distributed among the members of the Council but shall be transferred to another society, association or institution whose objects are similar to those of this Academy.

### XX. MISCELLANEOUS

56. These Statutes take effect in supersession of the pre-existing ones.

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#### **COUNCIL FOR THE PERIOD 2013–2015**

Prof. Chatterji, D. (President)

Prof. Sood, A.K. (Previous President)

Prof. Baskaran, G.

Dr Bhan, M.K. (Vice-President)

Prof. Bhatia, R.

Prof. Chandrashekar, T.K.

Prof. Ganesh, K.N.

Prof. Maitra, Uday (Secretary)

Prof. Padmanabhan, T.

Dr Rai, S.S.

Prof. Ramaswamy, R. (Vice-President and Editor of Publications)

Prof. Rao, M.R.S. (Vice-President)

Prof. Sarkar, Chitra

Dr Shaha, Chandrima

Prof. Sharma, Ashutosh

Prof. Shyamasundar, R.K.

Prof. Srinivasan, J. (Treasurer)

Dr Sundararajan, G. (Vice-President)

Prof. Varadarajan, R. (Secretary)

Prof. Wadia, S.R.

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## OFFICE BEARERS

	Telephone	
	Office	Residence
Dipankar Chatterji President	(080) 2293 2836 (080) 2360 0137	(080) 2539 2055 (080) 2360 5458
(while in Academy Office)	(080) 2266 1203 (080) 2266 1239	
A.K. Sood Previous President	(080) 2360 2238 (080) 2293 2964	(080) 2360 8323 (080) 2293 2927
M.K. Bhan Vice President	(011) 4604 3751-55	(011) 4165 5439
M.R.S. Rao Vice President	(080) 2208 2754 (080) 2208 2864	(080) 2351 9131
G. Sundararajan Vice President	(040) 2444 3167 (040) 2445 2304	(040) 2717 6029
R. Ramaswamy Vice President & Editor of Publications	(040) 2301 0121	(040) 2300 3434
Uday Maitra Secretary	(080) 2360 1968 (080) 2293 2690	(080) 2360 1774
R. Varadarajan Secretary	(080) 2293 2612	(080) 2360 2332
J. Srinivasan Treasurer	(080) 2293 3068	(080) 2331 4998

## **FORMER PRESIDENTS**

1.	Prof. Sir C.V. Raman	1934–1970
2.	Prof. T.S. Sadasivan	1971–1973
3.	Prof. M.G.K. Menon	1974–1976
4.	Prof. S. Dhawan	1977–1979
5.	Dr S. Varadarajan	1980–1982
6.	Prof. S. Ramaseshan	1983–1985
7.	Prof. O. Siddiqi	1986–1988
8.	Prof. C.N.R. Rao	1989–1991
9.	Prof. R. Narasimha	1992–1994
10.	Prof. P. Rama Rao	1995–1997
11.	Prof. N. Kumar	1998–2000
12.	Dr K. Kasturirangan	2001–2003
13.	Prof. T.V. Ramakrishnan	2004–2006
14.	Prof. D. Balasubramanian	2007–2009
15.	Prof. A. K. Sood	2010–2012

## **RAMAN CHAIR**

The Raman Chair was instituted in 1972 by the Government of India to commemorate the founder of the Academy, Prof. Sir C.V. Raman.

Eminent scientists are invited by the Council of the Academy to occupy the Chair, for periods between 6 weeks and 6 months.

Raman Professors who have occupied the Chair are:

1.	Prof. R. Hanbury Brown Chatterton Astronomy Department University of Sydney (Australia)	July-Oct. 1974
2.	Prof. Dorothy Hodgkin, Nobel Laureate Chemical Crystallography Laboratory University of Oxford (UK)	FebMar. 1979 Nov. 1979
3.	Prof. N. Bloembergen, Nobel Laureate Division of Applied Sciences, Harvard University (USA)	SeptDec. 1979
4.	Prof. Charles Frank The H.H. Wills Physics Laboratory University of Bristol (UK)	Dec. 1979-Feb. 1980
5.	Prof. K.R. Ramanathan Physical Research Laboratory Ahmedabad	SeptDec. 1980
6.	Prof. George W. Series University of Reading (UK)	Oct. 1982–Feb. 1983
7.	Prof. G. Pontecorvo Imperial Cancer Research Fund London (UK)	Dec. 1982-Feb. 1983
8.	Prof. J.B. Goodenough University of Oxford (UK)	Dec. 1982-Mar. 1983
9.	Prof. B.S. Blumberg, Nobel Laureate Fox Chase Cancer Center Philadelphia (USA)	JanApr. 1986

10.	Prof. John T. Bonner Princeton University Princeton, New Jersey (USA)	Oct. 1990–Jan. 1991
11.	Prof. Anatol Roshko California Institute of Technology Pasadena, California (USA)	Dec. 1993–Jan. 1994
12.	Prof. A. K. Ramdas Purdue University Indiana (USA)	Nov. 1994–Jan. 1995
13.	Prof. Sir Hermann Bondi Churchill College Cambridge (UK)	Dec. 1995-Feb. 1996
14.	Prof. B.I. Halperin Harvard University Cambridge, Massachusetts (USA)	SeptOct. 1996
15.	Prof. Dan P. McKenzie University of Cambridge Cambridge (UK)	FebApril 1997
16.	Prof. T.N. Krishnamurti Florida State University Tallahassee (USA)	Dec. 1998 Dec. 1999
17.	Prof. Itamar Procaccia Weizmann Institute of Science Rehovot (Israel)	FebMar. 2001
18.	Prof. Albert J. Libchaber The Rockefeller University New York (USA)	OctNov. 2001
19.	Prof. K.R. Sreenivasan Yale University New Haven (USA)	June-July 2002
20.	Prof. Philippe Nozieres Institut Laue-Langevin Grenoble Cedex (France)	FebMarch 2003

21	. Prof. Robert Williams Space Telescope Science Institute Baltimore, Maryland (USA)	Dec. 2003-Jan. 2004
22	Prof. Abhay Ashtekar Pennsylvania State University Pennsylvania (USA)	Dec. 2004-Jan. 2005
23	Prof. Anne McLaren Cancer Research UK Gurdon Institute, Cambridge (UK)	NovDec. 2005 OctNov. 2006
24	Prof. Sajeev John University of Toronto Canada	Dec. 2007-Jan. 2008
25	Prof. S.R.S. Varadhan Courant Institute of Mathematical Sciences New York (USA)	JanFeb. 2009
26	Prof. Marc Fontecave Universite Joseph Fourier Grenoble (France)	Apr. 2009 OctNov. 2009
27	Prof. Huzihiro Araki Research Institute for Mathematical Sciences Kyoto University, Kyoto (Japan)	JulSep. 2010
28	Prof. Anthony K. Cheetham University of Cambridge Cambridge (UK)	SepOct. 2011 Dec. 2011
29	Prof. Sauro Succi Istituto Applicazioni Calcolo Rome (Italy)	Oct. 2011 JanFeb. 2012 July 2012
30	Prof. Michael L. Klein Temple University Philadelphia (USA)	FebMar. 2014 AugSept. 2014 Jan. 2015

#### **JUBILEE PROFESSOR**

The Jubilee Professorship was instituted during the Platinum Jubilee Year of the Academy (2009). General guidelines are as follows:

- (1) Eminent scientists from any country and from any scientific discipline can be invited to occupy the Jubilee Professorship for a minimum period of two weeks and up to one month.
- (2) The Jubilee Professor may pursue any scientific activity and may be based in any Laboratory or Institution in India. The Professor is expected to visit smaller towns, universities for delivering lectures, holding seminars and interacting with students, teachers and researchers or for scientific collaboration.
- (3) The Jubilee Professor is entitled to an honorarium of Rs 80,000/per month in addition to local hospitality for the Jubilee Professor and spouse/companion.
- (4) The Academy will provide one business class air-fare from the place of residence to India and back or two economy class excursion fares if accompanied by spouse/companion.
- (5) All travel expenses of the Jubilee Professor within India will be met by the Academy.

Jubilee Professors who have occupied the Chair are:

 Prof. Ashok R. Venkitaraman University of Cambridge, UK July-August 2012

2. Prof. Nitash P. Balsara University of California, Berkeley, USA November 2014

# THE FELLOWSHIP, 2015 FELLOWS

#### Elected Year

- Abrol, Yash Pal, b. 1935, Ph.D. (Chicago), FNA, FNASc, FNAAS, The Indian Nitrogen Group, Room No. F 4, CGIAR Block, NASC Complex, Dev Prakash Shastri Marg, P.O. Pusa, New Delhi 110 012, Tel. Off. & Fax (011) 2584 3842; (011) 2584 2110, Res. (0124) 257 6165, Mobile: 98100 32162, email: ypabrol@gmail.com, sp. agriculture; crop physiology; environmental issues.
- Acharya, Subrat Kumar, b. 1951, MD (Utkal), D.M. (AIIMS), FNA, FNASc, Department of Gastroenterology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2659 4934, Res. (011) 2658 8460, Mobile: 98683 97200, Fax (011) 2658 8641, email: subratacharya@hotmail.com, sp. gastroenterology: hepatology; liver diseases.
- 1999 Adhya, Samit, b. 1953, Ph.D. (New York), FNA, Outstanding Scientist, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2499 5736, Res. (033) 2280 0123, Mobile: 94326 69883, Fax (033) 2472 3967, email: sadhya@iicb.res.in, sp. molecular genetics of parasites; intracellular RNA trafficking; DNA diagnostics.
- Adimurthi, Adi, b. 1952, Ph.D. (Bombay), FNA, FNASc, TIFR Centre for Applicable Mathematics, P.B. No. 6503, Sharada Nagar, Bengaluru 560 065, Tel. Off. (080) 6695 3742; (080) 6695 3790/95, Res. (080) 2341 1505, Fax (080) 6695 3799, email: aditi@math.tifrbng.res.in; adiadimurthi@gmail.com, sp. nonlinear differential equations.

#### Abbreviations/Explanatory Note:

b. - year of birth Fax - Fax number

Tel. – telephone number email – electronic mail address Off. – office sp. – fields of specialization

Res. - residence

Area code for telephone and fax numbers within India is given in brackets before each telephone number. The country code and area code for telephone numbers outside India are also given in brackets preceded by '+' sign. The number after a 'slash' sign indicates the extension number.

More abbreviations, see p. 199.

- Agarwal, Girish Saran, b. 1946, Ph.D. (Rochester), D.Sc. (h.c.), FNA, FNASc, FTWAS, FRS, Nobel Foundation Chair & Regents Professor, Department of Physics, Oklahoma State University, Stillwater, OK 74078, USA, Tel. Off. (+1-405) 744 3862, Mobile: 40571 41566, Fax (+1-405) 744 6811, email: girish.agarwal@okstate.edu, URL: http://physics.okstate.edu/agarwal/index.html, sp. quantum optics; quantum information science; plasmonics; stochastic processes.
- 2012 Aggarwal, Amita, b. 1960, MD (AIIMS), D.M. (Lucknow), FNASc, Department of Clinical Immunology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow 226 014, Tel. Off. (0522) 249 4296, Res. (0522) 249 4410, Mobile: 94735 84267, Fax (0522) 266 8017, email: aa.amita@gmail.com, sp. clinical immunology; rheumatology; juvenile arthritis.
- Aggarwal, Rakesh, b. 1961, MD (AIIMS), DM (Chandigarh), FNASc, FAMS, Department of Gastroenterology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Raebareli Road, Lucknow 226 014, Tel. Off. (0522) 249 4431, Res. (0522) 249 4410, Fax (0522) 266 8017, email: aggarwal.ra@ gmail.com, sp. gastrointestinal & liver diseases; viral hepatitis, epidemiology; health economics.
- 1975 **Agrawal,** Hari Om, b. 1936, D.Sc. (Holland), FNASc, Res. Sri Laxman Bhavan, 20/2, Indiranagar, Lucknow 226 016, Tel. (0522) 234 1586, sp. virology; microbiology; environmental sciences; biotechnology.
- Agrawal, Manindra, b. 1966, Ph.D. (IIT, Kanpur), FNAE, FNA, FNASc, FTWAS, N Rama Rao Professor, Department of Computer Science, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7338, Res. (0512) 259 8363, Mobile: 99350 62605, Fax (0512) 259 7586, email: manindra@iitk.ac.in, URL: www.cse.iitk. ac.in/users/manindra, sp. computational complexity theory; computation number theory.
- Agrawal, Prahlad Chandra, b. 1941, Ph.D. (Bombay), FNASc, Visiting Professor & NASI Senior Scientist, MU-DAE Center for Excellence in Basic Sciences, Mumbai; Res. 405, Vigyan, Scientists' CHS, Plot No. 23, Sector 17, Vashi, Navi Mumbai 400 703, Tel. Off. (022) 2653 0230, Res. (022) 2789 9894, Mobile: 98673 43442, email: prahlad.agrawal@gmail.com; agrawal@cbs.ac.in, sp. X-ray astronomy; experimental high energy astrophysics.

- Agrewala, Javed Naim, b. 1961, Ph.D. (Agra), FNASc, FNA, Chief Scientist, Immunology Laboratory, CSIR Institute of Microbial Technology, Chandigarh 160 036, Tel. Off. (0172) 666 5261, Res. (0172) 666 5514, Mobile: 94178 69408, Fax (0172) 269 0585, email: javed@imtech.res.in; jagrewala@gmail.com, URL: http://www.imtech.res.in/index.php?option=com\_chronocontact& chronoformname=scientists&task=detail&cf\_id=29&filter=2, sp. immunology; vaccines; drug discovery.
- 1978 **Ahluwalia,** Jagdish Chander, b. 1935, Ph.D. (Purdue), FNA, Res. 186, SFS Apartments, Hauz Khas, New Delhi 110 016, Tel. (011) 2656 4519, Mobile: 92137 36359, email: jcahluwalia@yahoo.in, sp. thermodynamics of biopolymers & surfactants in solutions; solute-solvent interactions.
- Ahmad, Talat, b. 1955, Ph.D. (JNU), FNA, FNASc, JC Bose National Fellow, Vice Chancellor, Jamia Millia Islamia, New Delhi 110 025, Tel. Off. (011) 2698 4650; (011) 2698 5180, Res. (011) 2631 3140, Fax (011) 2698 1232, Mobile: 70423 11499, email: vc@jmi.ac.in; tahmad001@gmail.com, sp. igneous petrology; geochemistry; Himalayan geology.
- Ajayaghosh, Ayyappanpillai, b. 1962, Ph.D. (Calicut), FNA, CSIR Outstanding Scientist, Photosciences & Photonics Section, National Institute for Interdisciplinary Science & Technology, Industrial Estate Post, Thiruvananthapuram 695 019, Tel. Off. (0471) 251 5306, Res. (0471) 249 1592, Mobile: 94460 59059, Fax (0471) 249 1712, email: ajayaghosh@niist.res.in, sp. organic functional materials; molecular self-assembly; organogels; molecular probes; pi-conjugated systems.
- Ali, Nahid, b. 1956, Ph.D. (Calcutta), FNASc, FNA, Chief Scientist, Infectious Diseases and Immunology Division, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032,Tel. Off.(033) 2499 5757, Res. (033) 2280 3153, Mobile: 98300 34759, Fax (033) 2473 5197, email: nali@iicb.res.in; nahidali28@yahoo.in, URL: http://iicb.res.in/divisionwiselistofscientists/id/nali.html, sp. biochemistry; immunology; parasitology.

- Ali, Sher, b. 1955, Ph.D. (Delhi), FNA, FNASc, JC Bose National Fellow, Senior Staff Scientist & Chief, Molecular Genetics Laboratory, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2670 3753, Res. (011) 2670 3613; (011) 2674 1139, Mobile: 98180 04632, Fax (011) 2674 2125, email: alisher@nii.ac.in, sp. molecular genetics of humans & animals; gene expression & genome organization; genomics of endangered species.
- 1974 Amarjit Singh, b. 1924, Ph.D. (Harvard), Res. 12, Auburn Court, Vernon Hills, IL 60061, USA, Tel. (+1-847) 247 9260, email: amarjitsingh@ieee.org, sp. millimeter wave tubes; microwave tubes; microwave electronics.
- Amritkar, Ravindra Eknath, b. 1951, Ph.D. (Bangalore), FNASc, Visiting Professor, Institute of Infrastructure, Technology, Research and Management, Near Khokhara Circle, Maninagar (East), Ahmedabad 380 026, Tel. Off. (079) 2929 2910, Res. (079) 2685 7041, Mobile: 90166 26694, Fax (079) 2631 4900, email: ravin012@gmail.com, URL: http://www.prl.res.in/~amritkar, sp. nonlinear phenomena; chaos; statistical physics.
- 2011 Anand, Anuranjan, b. 1965, Ph.D. (IISc), FNASc, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2804, Res. (080) 4099 5014, Mobile: 98458 04923, Fax (080) 2208 2766, email: anand@jncasr.ac.in, sp. human genetics and genomics; neurogenetics; developmental genetics.
- Anand, Gargeshwari Venkatasubbiah, b. 1943, Ph.D. (IISc), FNAE, MRD Chair Professor, PES Institute of Technology, Bengaluru; Visiting Professor, Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru, Tel. Off. (080) 2360 8434, Res. (080) 2361 1263, Fax (080) 2360 0563, email: anandgv@ece.iisc.ernet.in; gargeshwari. anand@gmail.com, sp. statistical signal processing; ocean acoustics; nonlinear dynamics.
- 1974 **Anand,** Nitya, b. 1925, Ph.D. (Mumbai & Cantab), FNA, FNASc, Res. Lumbini, B-62, Nirala Nagar, Lucknow 226 020, Tel. (0522) 278 8587; (0522) 404 3229, Mobile: 96700 66999, email: nityaanand1925@gmail.com, sp. organic chemistry; medicinal chemistry. **Council Service:** 1980–82.

- Ananthakrishna, Garani, b. 1942, Ph.D. (Texas, Austin), FNA, Materials Research Centre, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2780, Res. (080) 4953 5791, Mobile: 99002 68902, Fax (080) 2360 0683, email: garani@mrc.iisc. ernet.in; anantha.garani@gmail.com, sp. theoretical materials science; condensed matter; dynamical systems & chaos.
- Ananthakrishnan, Subramaniam, b. 1944, Ph.D. (Mumbai), FNA, FNASc, Adjunct Professor & INSA Senior Scientist, Electronic Science Department, Pune University, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2569 9841, Res. (020) 6609 4598, Fax (020) 2569 9841, email: ananth@electronics.unipune.ac.in; subra.anan@gmail.com, sp. radio science; extra-galactic radio astronomy; sun & solar wind; interferometry techniques & analog RF electronics.
- 1975 **Ananthakrishnan,** Taracad Narayanan, b. 1925, Ph.D. & D.Sc. (Madras), FNA, FNAAS, Res. Flat 6, Dwaraka, 22 (New 42), Kamdar Nagar, Nungambakkam, Chennai 600 034, email: ananththrips@yahoo.com, sp. Entomology; cecidology; chemical ecology. **Council Service:** 1980–82.
- Anil, Arga Chandrashekar, b. 1959, Ph.D. (Karnatak), Chief Scientist, CSIR National Institute of Oceanography, Dona Paula 403 004, Tel. Off. (0832) 245 0404, Res. (0832) 241 3765, Mobile: 94238 19755, Fax (0832) 245 0615, email: acanil@nio.org; anilac@gmail.com sp. biological oceanography; marine ecology; marine biology.
- Anil Kumar, b. 1941, Ph.D. (IIT, Kanpur), FNA, FNASc, FTWAS, NASI Senior Scientist, Department of Physics, NMR Research Centre, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 7344; (080) 2293 2724, Res. (080) 2366 2757, Mobile: 98454 21938, Fax (080) 2360 1550, email: anilnmr@ physics.iisc.ernet.in, URL: nrc.iisc.ernet.in/anil/, sp. nuclear magnetic resonance (NMR) spectroscopy & its applications to biomolecules and to quantum computing.
- Anil Kumar, b. 1955, Ph.D. (Pune), FNASc, FNA, Scientist and Chair, Physical & Materials Chemistry Division, CSIR-National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2278; (020) 2590 2001, Res. (020) 2588 8712; (020) 2590 2416, Mobile: 98220 74509, Fax (020) 2590 2636, email: a.kumar@ncl.res.in, sp. chemical thermodynamics; physical organic chemistry; biophysical chemistry.

- Anil Kumar, b. 1955, Ph.D. (Osmania), Scientist, Geochronology Group, CSIR National Geophysical Research Institute, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2701 2790, Res. (040) 2343 4785, email: anilkumar@ngri.res.in, sp. isotope geochemistry; paleomagnetism.
- Antia, Hormazad Maneck, b. 1955, Ph.D. (Bombay), FNA, Senior Professor, Astrophysics Group, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2514, Fax (022) 2280 4610, email: antia@tifr.res.in, URL: www.tifr.res.in/~antia, sp. solar physics; helioseismology; numerical techniques.
- 1980 Appaji Rao, Naropantul, b. 1934, Ph.D. (Rajasthan), FNA, Res. 9, Sharada Colony, Basaveshwara Nagar, Bengaluru 560 079, Tel. Off. (080) 2360 1561; (080) 2293 2310, Res. (080) 2348 6560, Mobile: 96118 35935, Fax (080) 2360 0814, email: bcnar@biochem. iisc.ernet.in, sp. biochemistry; enzyme regulation; inborn errors of metabolism.
- Apte, Shree Kumar, b. 1952, Ph.D. (Gujarat), FNA, FNASc, FNAAS, Emeritus Professor, Homi Bhabha National Institute, Anushakti Nagar, Mumbai 400 094, Tel. Off. (022) 2559 3638, Res. (022) 2558 0177, Mobile: 98694 80205, Fax (022) 2550 5326, email: aptesk@barc.gov.in; aptesk@yahoo.com, sp. molecular biology & biotechnology; physiology & biochemistry; stress biology of bacteria & plants.
- 2011 Arakeri, Jaywant Hanumappa, b. 1956, Ph.D. (Caltech), FNAE, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3228, Res. (080) 2665 8865, Mobile: 77605 81256, Fax (080) 2360 0648, email: jaywant@mecheng.iisc.ernet.in, sp. fluid mechanics; heat transfer; turbulence.
- 1991 Arakeri, Vijay Hanumappa, b. 1945, Ph.D. (Caltech), Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2670; (080) 2293 2352, Res. (080) 2367 2267, Fax (080) 2360 0683, email: vijay@mecheng. iisc.ernet.in, sp. cavitation; hydrodynamics; two-phase flows.
- Arankalle, Vidya Avinash, b. 1952, Ph.D. (Bombay), FNA, ICMR Consultant, National Institute of Virology, Sus Road, Pashan, Pune 411 021, Tel. Off. (020) 2600 6325, Res. (020) 2546 0686, Mobile: 93710 16417, Fax (020) 2612 2669, email: varankalle@yahoo.com, sp. virology, molecular biology & vaccine; hepatitis viruses; emerging—re-emerging viruses.

- 2005 **Arora**, Baldev Raj, b. 1947, Ph.D. (Bombay), FNASc, Res. 36, Janakpuri, Engineers Enclave, Phase III, GMS Road, Dehradun 248 001, Mobile: 98973 91661; 98712 87209, email: arorabr47@gmail.com, sp. electromagnetic geophysics; seismotectonics; earthquake precursors; geomagnetism.
- 1993 **Arunachalam,** Vaidheeswara, b. 1938, Ph.D. (Cantab), FNA, FNASc, FNAAS, Res. Flat 1, Rams Bridgeview Apartments, 3, Central Avenue Road, Kodambakkam, Chennai 600 024, Tel. (044) 2472 4198, Mobile: 89391 39327, email: vaiarunachalam@hotmail.com, sp. quantitative & population genetics; plant breeding; biodiversity (participatory plant breeding).
- Arunachalam, Vallampadugai Srinivasaraghavan, b. 1935, Ph.D. (Wales), D.Engg (h.c.), D.Litt. (h.c.), D.Sc. (h.c.), FNA, FNASc, FNAE, Chairman & Founder, Centre for Study of Science, Technology & Policy, 10<sup>th</sup> Cross, Papanna Layout, Mayura Street, RMV II Stage, Nagashettyhalli, Bengaluru; Res. 547, 9th Cross J.P. Nagar, Bengaluru 560 078, Tel. Off. (080) 6690 2509, Res. (080) 2649 1399, Mobile: 98454 47735, Fax (080) 2351 4269, email: vsa@cmu.edu; vsa@cstep.in, URL: www.cstep.in, sp. science, technology & public policy; materials science & engineering; energy technologies; defence technologies; information & communications technology (ICT) for human development & application of infrastructure technologies to development. Council Service: 1983–85.
- Arunan, Elangannan, b. 1961, Ph.D. (Kansas State), FRSC, Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2828, Res. (080) 2360 1952, Mobile: 94498 21952, Fax (080) 2360 0282, email: arunan@ipc.iisc.ernet.in, URL: http://ipc.iisc.ernet.in/arunan.html, sp. molecular & van der Waals spectroscopy; chemical kinetics & dynamics; shock wave interactions with molecules & materials; hydrogen bonding & other molecular interactions.
- 1976 **Aswathanarayana**, Uppugunduri, b. 1928, D.Sc. (Andhra), FNA, FTWAS, Res. B-16, Shanti Shikara Apartments, Raj Bhavan Road, Somajiguda, Hyderabad 500 082, Tel. (040) 2339 9440, Mobile: 98663 31137, Fax (040) 2332 9145, email: uaswathanarayana@ gmail.com, sp. nuclear geology; natural resources management; environmental geochemistry.

- Athreya, Krishna Balasundaram, b. 1939, Ph.D. (Stanford),
  Distinguished Professor Emeritus, Departments of Mathematics &
  Statistics, Iowa State University, Ames, Iowa 50011, USA, Tel. Off.
  (+1-515) 294 2617; (+1-515) 294 5864, Mobile: 51577 91878,
  Fax (+1-515) 294 4040, email: kba@iastate.edu; kbathreya@gmail.com,
  sp. probability theory; stochastic processes; mathematical statistics.
- Athreya, Siva Ramachandran, b. 1971, Ph.D. (Washington), Theoretical Statistics & Mathematics Division, Indian Statistical Institute, RV College Post, Mysore Road, Bengaluru 560 059, Tel. Off. (080) 2698 5465, Mobile: 98862 93244, Fax (080) 2848 4265, email: athreya@isibang.ac.in, URL: http://www.isibang.ac.in/~athreya, sp. probability theory.
- 2010 **Awasthi,** Shally, b. 1958, MD (Lucknow), FNASc, FAMS, Department of Paediatrics, King Georges Medical University, Lucknow 226 003, Tel. Off. 92354 44824, Res. (0522) 401 1510, Mobile: 98392 21244, email: shallya@rediffmail.com; shally07@ gmail.com, sp. paediatrics pulmonology; infectious & parasitic diseases; clinical trials.
- 1990 **Babu,** Cherukuri Raghavendra, b. 1940, D.Phil. (Calcutta), Distinguished Professor, Ambedkar University, Delhi; Professor Emeritus, Centre for Environmental Management of Degraded Ecosystems, Department of Environmental Studies, University of Delhi, Delhi 110 007, Tel. Off. (011) 2766 6237, Mobile: 98105 86709, Fax (011) 2766 6237, email: crb26@hotmail.com; crbabu26@gmail.com, sp. biosystematics; ecology; population genetics; biodiversity conservation.
- 1985 **Babu,** Padmanabhan, b. 1942, Ph.D. (Bombay), Res. No. 706, 7th Main, 11th Cross, J.P. Nagar III Phase, Bengaluru 560 078, Tel. (080) 2658 7933, Mobile: 98459 46753, email: pbabu0@gmail.com, sp. genetics & biotechnology.
- 2004 **Bachhawat,** Anand Kumar, b. 1958, Ph.D. (Calcutta), FNA, FNASc, Indian Institute of Science Education and Research-Mohali, Knowledge City, Manauli P.O., SAS Nagar 140 306, Tel. Off. (0172) 224 0119, Res. (0172) 269 0126, Fax (0172) 224 0226, email: anand@iisermohali.ac.in, sp. microbial genetics; molecular genetics; microbial biochemistry.

- 2010 Bag, Amulya Kumar, b. 1937, Ph.D. (Calcutta), Editor, Indian Journal of History of Science, Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi 110 002, Tel. Off. (011) 2322 1931–50, Res. (011) 2525 3538, Mobile: 96540 23365, Fax (011) 2323 5648, email: akbag99@gmail.com, sp. history of mathematics, astronomy & technology in India.
- 1998 **Bagchi,** Bhaskar, b. 1954, Ph.D. (ISI, Calcutta), Theoretical Statistics & Mathematics Unit, Indian Statistical Institute, RV College Post, Mysore Road, Bengaluru 560 059, Tel. Off. (080) 2848 3002–06/455, Res. (080) 2848 2009, Fax (080) 2848 4265, email: bbagchi@isibang.ac.in, sp. finite geometry; combinatorial topology; operator theory.
- Bagchi, Biman, b. 1954, Ph.D. (Brown), FNA, FNASc, FTWAS, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2926; (080) 2293 2336, Res. (080) 2360 0236, Mobile: 97407 23401, Fax (080) 2360 1310, email: bbagchi@sscu.iisc.ernet.in, sp. physical & biophysical chemistry; statistical mechanics of liquids; molecular relaxation; chemical reaction dynamics in liquids & biological systems; glass transition.
- 2007 **Bajpai,** Sunil, b. 1961, Ph.D. (Panjab), FNASc, Director, Birbal Sahni Institute of Palaeobotany, 53, University Road, Lucknow 226 007, Tel. Off. (0522) 274 0470; (0522) 274 0439, Fax (0522) 274 0485, email: director@bsip.res.in; directorbsip@gmail.com, sp. vertebrate paleontology; paleobiogeography; biostratigraphy.
- 2007 **Balaji,** Vikraman, b. 1962, Ph.D. (Madras), Chennai Mathematical Institute, H1, SIPCOT IT Park, Padur Post, Siruseri, Kelambakkam, Chennai 603 103, Tel. Off. (044) 3298 3441–2, Res. (044) 2235 2556, Mobile: 98843 92556, email: balaji@cmi.ac.in, sp. algebraic geometry; representation theory; topology.
- Balakrishnan, Narayanaswamy, b. 1950, Ph.D. (IISc), FNAE, FNA, FNASc, FTWAS, Supercomputer Education & Research Centre and Department of Aerospace Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0325, Res. (080) 2360 0114, Fax (080) 2293 3438, email: balki@serc.iisc.ernet.in, URL: http://swati.dli.ernet.in/balki, sp. numerical electromagnetics; information security; polarimetric radars; aerospace electronic systems. Council Service: 1998–2006; Secretary: 1998–2003, Treasurer: 2004–06.

- Balakrishnan, Venkataraman, b. 1943, Ph.D. (Brandeis), Department of Physics, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 5879, Res. (044) 2431 0387, Mobile: 94444 42927, Fax (044) 2257 0509, email: vbalki@physics.iitm.ac.in; venkataraman.balakrishnan@gmail.com, URL: http://hsb.iitm.ac.in/~vbalki, sp. statistical physics; stochastic processes; dynamical systems.
- 2009 **Balaram,** Hemalatha, b. 1956, Ph.D. (IISc), Molecular Biology & Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2812, Res. (080) 2360 2300, Mobile: 99721 77547, Fax (080) 2208 2766, email: hb@jncasr.ac.in, sp. biochemistry; molecular enzymology; molecular parasitology.
- Balaram, Padmanabhan, b. 1949, Ph.D. (Carnegie-Mellon), FNA, FNASc, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3000, Res. (080) 2334 0962, Fax (080) 2360 0535, email: pb@mbu.iisc.ernet.in, sp. bioorganic chemistry; molecular biophysics. Council Service: 1995–2000.
- 1994 **Balasubramanian,** Aiylam Subramania, b. 1937, Ph.D. (Kerala), FAMS, Res. 16/7A, First New Street, Thirunagar, Vellore 632 006, Tel. (0416) 224 6260, email: balabsu7@hotmail.com, sp. biochemistry; neurochemistry; enzymology.
- Balasubramanian, Dorairajan, b. 1939, Ph.D. (Columbia), FNA, FNASc, FTWAS, FAAAS, Fellow, German Academy of Sciences, Chevalier de l'Ordre National du Merite (France), Director of Research, Hyderabad Eye Research Foundation, LV Prasad Eye Institute, LV Prasad Marg, Banjara Hills, Hyderabad 500 034, Tel. Off. (040) 2354 3652; (040) 3061 2501, Res. (040) 2717 4787, Fax (040) 2354 8271, email: dbala@lvpei.org, sp. biophysical chemistry; bio-chemistry of eye diseases; public understanding of science. Council Service: 2001–12, Vice-President: 2004–06, President: 2007–09.
- Balasubramanian, Kalpattu Kuppusamy, b. 1939, Ph.D. (Madras), FNA, Res. New 47, (Old 24), Padmanabha Nagar, 5th Street, Adayar, Chennai 600 020, Tel. (044) 2446 1595, Mobile: 94449 10297, email: kkbadayar@gmail.com; kkbalu@hotmail.com, sp. molecular rearrangements; carbohydrate chemistry; organic electrophotochemistry; synthetic organic chemistry; heterocyclic chemistry.

- 2002 **Balasubramanian,** Kunissery Ananthasubramanian, b. 1945, Ph.D. (Madras), FNASc, FAMS, Res. No. 49, Guruthoppu, Phase I, II Street, Sathuvachari, Vellore 632 009, Tel. Off. (0416) 228 2052, Res. (0416) 225 2879, Mobile: 94872 28314, Fax (0416) 228 2486, email: wlbalu@hotmail.com, sp. oxidative stress; gastrointestinal mucosa; pathophysiology.
- 1987 **Balasubramanian,** Ramachandran, b. 1951, Ph.D. (Bombay), FNA, FNASc, Director, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3200–01, Res. (044) 2259 1626, Fax (044) 2254 1586, email: balu@imsc. res.in; director@imsc.res.in, sp. analytic number theory. **Council Service**: 2007–09.
- Balasubramanian, Sundaram, b. 1966, Ph.D. (IISc), Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2808, Res. (080) 2356 6297, Mobile: 94482 87708, Fax (080) 2208 2766, email: jncbala@gmail.com, sp. molecular simulations; liquid state; computational chemistry.
- 2000 Baldev Raj, b. 1947, Ph.D. (IISc), FNAE, FNASc, FNA, FTWAS, Director, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560 012, Tel. Off. (080) 2360 1969, Fax (080) 2218 5076, email: baldev.dr@gmail.com; baldev\_dr@nias.iisc.ernet.in, sp. non-destructive science & technology; materials performance; technology management; nanoscience & technology.
- 1974 **Bambah,** Ram Prakash, b. 1925, Sc.D. (Cantab), FNA, FNASc, FTWAS, Res. 1275, Sector 19B, Chandigarh 160 019, Tel. (0172) 272 4863, Mobile: 94172 24863, email: bambahrp@rediffmail.com, sp. number theory; discrete geometry.
- Bandyopadhyay, Uday, b. 1964, Ph.D. (Jadavpur), FNASc, FNA, Principal Scientist, Division of Infectious Diseases and Immunology, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 3491, Res. (03212) 22 7933, Mobile: 94740 03048, Fax (033) 2473 5197, email: udayb@iicb.res.in; ubandyo\_1964@ yahoo.com, sp. free radical biology & apoptosis; gastric pathophysiology, malaria & antimalarials.

- Banerjee, Arindam, b. 1966, Ph.D. (IISc), FRSc, Senior Professor, Department of Biologial Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1504, Res. (033) 2381 8096, Mobile: 96744 82237, Fax (033) 2473 2805, email: bcab@iacs.res.in; arindamkol1966@gmail.com, URL: http://www.iacs.res.in/biochem/bcab/, sp. bio-organic chemistry; molecular assembly; soft materials & hybrid nano materials.
- 1992 **Banerjee,** Dipankar, b. 1952, Ph.D. (IISc), FNA, FNAE, FNASc, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2558, Res. (080) 2360 5893, Fax (080) 2360 6742, email: dbanerjee@ materials.iisc.ernet.in, sp. metallurgy; titanium alloys; electron microscopy.
- 1991 **Banerjee,** Kalyan, b. 1937, Ph.D. (Calcutta), FNA, FAMS, FNASc, President, Maharashtra Association for the Cultivation of Science, Pune; Res. A-1-A/5-6, Sopan Baug, Opp. Mantri Avenue, NCL Road, Pashan, Pune 411 008, Tel. Off. (020) 2565 2974, Mobile: 88885 38970, Fax (020) 2565 1542, email: dr\_k\_banerjee20@ yahoo.co.in, sp. virology; epidemiology; immunology of viral diseases.
- 1993 **Banerjee,** Ranajit Kumar, b. 1944, Ph.D. (Calcutta), FNASc, FNA, Res. "Nature's Nest", Flat No. 1G, 140, PGH Shah Road, Kolkata 700 032, Tel. (033) 2413 0396, Mobile: 98303 37787, email: ranajit\_banerjee@rediffmail.com; ranajitb@yahoo.com, sp. molecular enzymology; membrane biochemistry; cell biology.
- 2006 **Banerjee,** Soumitro, b. 1960, Ph.D. (IIT, Delhi), FNA, FNAE, FTWAS, FIEEE, Department of Physical Sciences, Indian Institute of Science Education & Research, Mohanpur 741 246, Tel. Res. (033) 2502 5380, Mobile: 94325 98503, Fax (033) 2587 3020, email: soumitro@iiserkol.ac.in; soumitro.banerjee@gmail.com, URL: http://www.iiserkol.ac.in/people/faculty/dps/soumitro, sp. bifurcation theory; switching dynamical systems.
- Banerjee, Srikumar, b. 1946, Ph.D. (IIT, Kharagpur), FNA, FNAE, FNASc, FTWAS, DAE Homi Bhabha Chair Professor, Bhabha Atomic Research Centre, Central Complex, Trombay, Mumbai 400 085, Tel. Off. (022) 2550 5333, Res. (022) 2754 9099, Fax (022) 2550 5333, email: sbanerjee@barc.gov.in, sp. materials science; physical metallurgy; phase transformations; nuclear materials; nuclear fuel cycle; reactor engineering. Council Service: 2007–2012; Vice-President: 2010–2012.

- 2002 **Banerjee,** Sunanda, b. 1952, Ph.D. (London), FNA, High Energy Nuclear and Particle Physics Division, Saha Institute of Nuclear Physics, Sector-1, Block-AF, Bidhannagar, Kolkata 700 064, Tel. Off. (033) 2337 5345/3429, Res. (033) 2555 8173, Fax (033) 2321 4986, email: banerjee@mail.cern.ch, sp. experimental high energy physics.
- Bansal, Manju, b. 1950, Ph.D. (IISc), FNASc, FNA, JC Bose National Fellow, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2534; (080) 2360 7591, Res. (080) 2341 9971, Mobile: 98452 37560, Fax (080) 2360 0535, email: mb@mbu.iisc.ernet.in, URL: http://nucleix.mbu.iisc.ernet.in, sp. computational structural biology; computational genome analysis; biomolecular modelling.
- 2000 **Bapat,** Ravindra Bhalchandra, b. 1954, Ph.D. (Illinois), FNA, Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110 016, Tel. Off. (011) 4149 3934, Res. (011) 2685 2513, Fax (011) 4149 3981, email: rbb@isid.ac.in; rbbapat@rediffmail.com, sp. combinatorial linear algebra; generalized inverses.
- 2015 **Bapat,** Sharmila Avadhut, b. 1965, Ph.D. (Pune), FNASc, Scientist F, National Centre for Cell Science, NCCS Complex, Pune University Campus, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2570 8089, Res. (020) 2545 4460, Mobile: 99215 12020, email: sabapat@nccs.res.in, URL: http://www.nccs.res.in/bapat1. html, sp. cancer stem cells; integrative approaches; epithelial to mesenchymal transition.
- Barma, Mustansir, b. 1950, Ph.D. (SUNY, Stony Brook), FNA, FNASc, FTWAS, Distinguished Professor, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2425, Res. (022) 2202 1154, Fax (022) 2280 4610, email: barma@theory.tifr.res.in, URL: http://theory.tifr.res.in/~barma/, sp. statistical physics.
- Barua, Asok Kumar, b. 1936, Ph.D. (Calcutta), Honorary Emeritus Professor, Indian Institute of Engineering Science and Technology, Shibpur, Howrah 711 103, Tel. Off. (033) 2668 4561-64/301, Res. (033) 2477 2033, Mobile: 98300 59351, Fax (033) 2668 7375, email: baruaasok@gmail.com, sp. solid state materials; thin film technology; thin film solar cells.

- 2006 **Basak,** Amit, b. 1952, Ph.D. (Calcutta), D.Phil. (Oxon), FNA, FNASc, Professor and Dean (Faculty), Department of Chemistry, Indian Institute of Technology, Kharagpur 721 302, Tel. Off. (03222) 28 3300, Res. (03222) 28 3301, Mobile: 94340 13294, Fax (03222) 28 2252, email: absk@chem.iitkgp.ernet.in, sp. DNA-interacting agents; biradical chemistry; asymmetric synthesis; enzymology.
- 1997 **Basavaiah,** Deevi, b. 1950, Ph.D. (Banaras), FNA, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4812, Res. (040) 2301 0977, Fax (040) 2301 2460, email: basavaiahdchem@uohyd.ac.in; dbsc@uohyd.ernet.in, sp. organic chemistry: Baylis-Hillman chemistry; chiral catalysis.
- 1989 Baskaran, Ganapathy, b. 1948, Ph.D. (IISc), FNA, FTWAS, Distinguished Visiting Research Chair, Perimeter Institute for Theoretical Physics, Waterloo, Ontario, Canada; SERB Distinguished Fellow, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3303, Res. (044) 2451 0504, Fax (044) 2254 1586, email: baskaran@imsc.res.in, sp. theoretical physics; strongly correlated electronic systems; quantum processes in biology. Council Service: 2013-.
- 2013 **Baskaran,** Sundarababu, b. 1961, Ph.D. (IIT, Kanpur), Department of Chemistry, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4218, Res. (044) 2257 6218, Mobile: 98401 30685, Fax (044) 2257 0545, email: sbhaskar@iltm.ac.in, sp. development of new synthetic methods; green chemistry; synthesis of biologically active natural products.
- 2006 **Basu,** Joyoti, b. 1957, Ph.D. (Calcutta), FNASc, FNA, Department of Chemistry, Bose Institute, 93/1, Acharya Prafulla Chandra Road, Kolkata 700 009, Tel. Off. (033) 2303 1144; (033) 2303 1153, Res. (033) 2475 3293, Mobile: 98300 44776, Fax (033) 2350 6790, email: joyoti@vsnl.com; joyotibasu@gmail.com, sp. molecular microbiology; mycobacteria; host–pathogen interactions; membrane biology.
- 1996 **Basu,** Mukul Kumar, b. 1939, Ph.D. (Jadavpur), FNASc, FRSC (London), Res. 'Punascha', 19/D, Dr Rajendra Road, Kolkata 700 020, Tel. (033) 2475 0958, email: mukulkbasu@yahoo.com; mukulkbasu@gmail.com, sp. structure functions of bio-membranes; design & testing of targeted delivery systems; host-parasite interactions.

- 1992 Basu, Sandip Kumar, b. 1944, Ph.D. (Calcutta), FNASc, FNA, FTWAS, JC Bose Chair Professor, CSIR National Institute of Science Communication and Information Resources, 14 Satsang Vihar Marg, New Delhi 110 067, Tel. Off. (011) 2686 3702, Mobile: 98914 98821, email: sandipkbasu@gmail.com, sp. biochemistry; molecular biology & microbial genetics; cell biology. Council Service: 1995–97.
- 2005 **Batra,** Janendra Kumar, b. 1957, Ph.D. (Delhi), FNASc, Deputy Director, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2670 3739, Res. (011) 2670 3546, Mobile: 98714 99411, Fax (011) 2674 2125, email: janendra@nii.ac.in, URL: http://202.54.226.233/jsp/faculty/scientist\_Janendra.html, sp. molecular biology; biochemistry & protein chemistry.
- Beig, Gufran-Ullah, b. 1961, Ph.D. (Ahmedabad), Deputy Director, Indian Institute of Tropical Meteorology, Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 4261, Res. (020) 2295 3145, Fax (020) 2589 3825, email: beig@tropmet.res.in, URL: http://envis.tropmet.res.in/beig/index.htm, sp. atmospheric sciences; global change & the atmospheric environment; urban air pollution & chemical-climate change; the 2-D & 3-D atmospheric chemical transport modelling.
- 2014 **Bera,** Jitendra Kumar, b. 1968, Ph.D. (IISc), Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7336, Res. (0512) 259 8450, Mobile: 99563 90490, Fax (0512) 259 7436, email: jbera@iitk.ac.in, URL: http://home.iitk.ac.in/~jbera/group-files/jkb.htm, sp. organometallic chemistry; small molecule activation; catalysis.
- 1989 **Bhaduri,** Sumit, b. 1948, Ph.D. (Cambridge), FNA, Res. 562, Adenwala Road, Rustom Mansion, Mumbai 400 019, Tel. (022) 2415 0255, email: sbhaduri@chem.iitb.ac.in; sbhaduri26@hotmail.com, sp. inorganic chemistry; organometallic chemistry; catalysis.
- Bhakuni, Dewan Singh, b. 1930, Ph.D. and D.Sc. (London), FNA, FNASc, Res. C-132, Nirala Nagar, Lucknow 226 020, Tel. (0522) 278 8517, sp. natural products; bio-organic; bio-synthesis; nucleosides; medicinal chemistry.

- 2008 **Bhalla,** Upinder Singh, b. 1963, Ph.D. (Caltech), FNA, National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6130, Res. (080) 2362 4030, Fax (080) 2363 6662, email: bhalla@ncbs.res.in, sp. systems biology; computational neuroscience; systems neurobiology.
- 1991 **Bhan,** Maharaj Kishan, b. 1947, MD (Delhi), FAMS, FNA, FNASc, National Science Professor, Indian Institute of Technology, New Delhi 110 016, Tel. Off. (011) 4604 3751-55, Res. (011) 4165 5439, Fax (011) 4604 3756, email: rajkbhan@gmail.com, sp. paediatrics; gastroenterology; infectious diseases; nutrition. **Council Service**: 2013–; Vice-President: 2013–.
- Bhandari, Narendra, b. 1941, Ph.D. (Bombay), FNA, FNASc, INSA Honorary Scientist, Physical Research Laboratory, Ahmedabad; Res. 2, Nilima Flats, Nilima Park Society, Vijay Crossing, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4266, Res. (079) 2791 2332, Mobile: 98240 77890, email: nnbhandari@yahoo.com, URL: http://www.nbhandari.com, sp. planetary sciences; nuclear geo-physics; exploration of moon & mars.
- Bhandari, Nita, b. 1955, Ph.D. (JNU), Director, Centre for Health Research and Development, Society for Applied Studies, 45, Kalu Sarai, New Delhi 110 016, Tel. Off. (011) 4604 3751-55, Res. (011) 4174 8476, Mobile: 98991 44123, Fax (011) 4604 3756, email: nita.bhandari@sas.org.in, sp. nutrition-infection interaction; child health; nutritional interventions; clinical evaluation of vaccine.
- Bhanu Sankara Rao, Kota, b. 1947, Ph.D. (Madras), FNAE, Dean, School of Engineering Sciences and Technology, University of Hyderabad, Hyderabad; Ministry of Steel Chair Professor, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad 500 075, Tel. Off. (040) 2419 3471, Mobile: 94933 30125, email: kota.bhanu@gmail.com; bhanu@mgit.ac.in, sp. mechanical metallurgy; physical metallurgy; materials development; welding science and technology.
- Bharadwaj, Parimal Kanti, b. 1951, Ph.D. (IIT, Kharagpur), FNA, JC Bose National Fellow, Poonam & Prabhu Goel Chair Professor, Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7340; (0512) 259 7034, Res. (0512) 259 8324, Fax (0512) 259 0007, email: pkb@iitk.ac.in, sp. Supramolecular chemistry; inorganic chemistry; X-ray crystallography.

- Bhardwaj, Anil, b. 1967, Ph.D. (Banaras), FNA, FNASc, Director, Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram 695 022, Tel. Off. (0471) 256 3663; (0471) 270 2330, Res. (0471) 255 5168, Mobile: 99471 49290, Fax (0471) 270 6535, email: anil\_bhardwaj@vssc.gov.in; bhardwaj\_spl@yahoo.com, sp. planetary & space sciences; multi-wavelength (X-ray, UV, visible, radio) observations; planetary atmospheres and ionospheres; lunar-solar wind interactions; energetic neutral atoms (ENA) imaging; planetary missions & exploration.
- 2010 **Bhargava,** Purnima, b. 1955, Ph.D. (Banaras), FNASc, CSIR-Centre for Cellular & Molecular Biology, Uppal Road, Tarnaka, Hyderabad 500 007, Tel. Off. (040) 2719 2603, Res. (040) 2717 4749, Fax (040) 2716 0591, email: purnima@ccmb.res.in, sp. biochemistry & molecular biology; eukaryotic transcription; epigenetics & chromatin.
- 2006 **Bhat,** Badekkila Venkatramana Rajarama, b. 1966, Ph.D. (ISI, Bangalore), Statistics & Mathematics Unit, Indian Statistical Institute, RV College Post, Mysore Road, Bengaluru 560 059, Tel. Off. (080) 2698 5470, Res. (080) 2698 5504, Mobile: 98442 21578, Fax (080) 2848 4265, email: bhat@isibang.ac.in, URL: www.isibang.ac.in/~bhat/, sp. quantum probability; operator algebras; operator theory.
- 2006 **Bhat,** Ganapati Shankar, b. 1957, Ph.D. (IISc), Centre for Atmospheric & Oceanic Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3071, Res. (080) 2347 3340, Mobile: 94498 24340, Fax (080) 2360 0865, email: bhat@caos.iisc.ernet.in, URL: http://caos.iisc.ernet.in/faculty/gsbhat.pdf, sp. tropical convection; boundary layer; field studies; ocean-atmosphere coupling.
- Bhat, Subray Venkatraman, b. 1945, Ph.D. (IISc), FNASc, FNA, INSA Senior Scientist, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2727, Res. (080) 2341 0312, Mobile: 98455 57534, Fax (080) 2360 2602, email: svbhat1@gmail.com; svbhat@physics.iisc.ernet.in, sp. experimental condensed matter physics; solid state NMR; electron paramagnetic resonance; magnetism & physics of glass transitions.

- Bhatia, Chittranjan, b. 1936, Ph.D. (IARI), FNA, FNAAS, FNASc, FTWAS, Res. No. 17, Rohini, Plot No. 29-30, Sector 9A, Vashi, Navi Mumbai 400 703, Tel. (022) 2765 5178, Mobile: 98205 02810, email: chittranjan.bhatia@yahoo.com; crbhatia.bhatia@gmail.com, sp. plant genetics; plant breeding; biotechnology.
- Bhatia, Rajendra, b. 1952, Ph.D. (ISI), FNA, FTWAS, JC Bose National Fellow, Distinguished Scientist, Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110 016, Tel. Off. (011) 4149 3943, Res. (011) 2686 7942, Fax (011) 4149 3981, email: rbh@isid.ac.in; rajenbhatia@gmail.com, sp. analysis; operator theory; matrix analysis and applications. Council Service: 2013–.
- Bhatia, Suresh Kumar, b. 1952, Ph.D. (Pennsylvania), Fellow, Australian Academy of Technological Sciences and Engineering, School of Chemical Engineering, The University of Queensland, St. Lucia, Brisbane, QLD 4072, Australia, Tel. Off.(+61-7) 3365 4263, Res. (+61-7) 3374 0472, Mobile: 412 684 655, Fax (+61-7) 3365 4199, email: s.bhatia@uq.edu.au, sp. transport & reaction in nanostructured porous media; adsorption; mathematical modelling.
- Bhatnagar, Rakesh, b. 1951, Ph.D. (NSI, Kanpur), FNASc, FNA, School of Biotechnology, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2670 4079, Res. (011) 2674 2258, Fax (011) 2674 2040, email: rakeshbhatnagar@mail.jnu.ac.in; rakeshbhatnagar@jnu.ac.in, URL: http://www.jnu.ac.in/Faculty/rbhatnagar/, sp. vaccine development; genetic engineering; molecular biology.
- 1981 **Bhatt,** Mangalore Vivekananda, b. 1924, Ph.D. (Bombay), FNA, Res. 39, 1st Main, 1st Cross, Siddeshwara Layout, Seedadahalli, Nagasandra Post, Bengaluru 560 073, Tel. (080) 2372 2878, Mobile: 93419 28420, sp. physical organic; organometallic; synthetic organic chemistry.
- 2010 **Bhatt,** Subhashchandra Jayantilal, b. 1949, Ph.D. (Gujarat), Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar 388 120, Tel. Off. (02692) 22 6869, Res. (02692) 23 7115, Fax (02692) 23 7258, email: subhashbhaib@ yahoo.co.in; subhashbhaib@gmail.com, sp. Banach & topological algebra; operator algebras & application; harmonic analysis.

- Bhattacharjee, Jayanta Kumar, b. 1952, Ph.D. (Maryland), FNASc, Director, Harishchandra Research Institute, Chhatnag Road, Jhunsi, Allahabad 211 019, Tel. Off. (0532) 227 4301, Res. (0532) 227 4001, Mobile: 99191 88606, email: jkb@hri.res.in; jayanta.bhattacharjee@gmail.com, sp. critical phenomena; turbulence; nonlinear dynamics.
- 2000 **Bhattacharjee,** Somendra Mohan, b. 1957, Ph.D. (Carnegie Mellon), FNA, FNASc, Department of Physics, RKM Vivekananda University, P.O. Belur Math, Howrah 711 202, Tel. Off. (033) 2654 9999, Mobile: 94379 66448, Fax (033) 2654 4640, email: somen@rkmvu.ac.in; somen@iopb.res.in, sp. statistical physics; condensed matter physics.
- 2015 **Bhattacharya,** Alok, b. 1951, Ph.D. (JNU), FNA, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2670 4516, Res. (011) 2613 3295, Mobile: 98108 81439, Fax (011) 2674 1502, email: alok.bhattacharya@gmail.com, sp. molecular parasitology; computational genomics.
- 2003 **Bhattacharya,** Dipankar, b. 1959, Ph.D. (IISc), Inter-University Centre for Astronomy & Astrophysics, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4210, Res. (020) 2560 4403, Mobile: 99236 97158, Fax (020) 2560 4698-99, email: dipankar@iucaa.ernet.in, URL: http://www.iucaa.ernet.in/~dipankar/, sp. high energy astrophysics; neutron stars; cosmic explosions. Council Service: 2007–09.
- 2006 **Bhattacharya,** Samaresh, b. 1960, Ph.D. (Jadavpur), Inorganic Chemistry Section, Department of Chemistry, Jadavpur University, Kolkata 700 032, Tel. Off. (033) 2414 6223, Res. (033) 2431 0998, Mobile: 98302 03354, Fax (033) 2414 6223, email: sbhattacharya@ chemistry.jdvu.ac.in, sp. inorganic chemistry; coordination chemistry; organometallic chemistry.
- Bhattacharya, Samir, b. 1942, Ph.D. (Calcutta), FNA, FNASc, Emeritus Professor, Centre of Advanced Studies in Zoology, School of Life Sciences, Visva-Bharati, Santiniketan 731 235, Tel. Off. (03463) 26 1268, Res. (03463) 26 2838, Mobile: 92325 67066, Fax (03463) 26 1176, email: bhattacharyasa@ gmail.com, sp. comparative endocrinology; molecular signalling & molecular basis of disease.

- 2000 **Bhattacharya,** Santanu, b. 1958, Ph.D. (Rutgers), FNA, FTWAS, JC Bose National Fellow, Chairman, Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2664; (080) 2293 2777, Res. (080) 2360 1944, Fax (080) 2360 0529, email: sb@orgchem.iisc.ernet.in, sp. chemical biology; molecular theranostics; soft materials; supramolecular analytical chemistry; nanoscience & nanotechnology.
- Bhattacharya, Sourendra Kumar, b. 1948, Ph.D. (Gujarat), FNASc, Res. 406, Shri Raj Apartments, Vastrapur, Ahmedabad 380 015, Tel: (079) 2674 2463, Mobile: 96506 63584, email: skbhatta1@ gmail.com, sp. isotope geochemistry; anomalous isotopic fractionation.
- 2001 **Bhattacharya,** Sudha, b. 1952, Ph.D. (IARI), FNASc, FNA, Professor, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2670 4308, Mobile: 98184 76740, Fax (011) 2674 1502, email: sb@mail.jnu.ac.in; sbjnu110@gmail.com, sp. molecular biology; molecular parasitology; genomics.
- 2007 **Bhattacharyya,** Archana, b. 1948, Ph.D. (Northwestern), FNASc, FNA, JC Bose National Fellow, Professor Emeritus, Indian Institute of Geomagnetism, Kalamboli, New Panvel, Navi Mumbai 410 218, Tel. Off. (022) 2748 4147, Res. (022) 2772 2014, Mobile: 96195 43004, Fax (022) 2748 0762, email: abh@iigs.iigm.res.in, sp. ionospheric physics; geomagnetism; space weather.
- Bhattacharyya, Bhabatarak, b. 1944, Ph.D. (Calcutta), FNA, FNASc, FTWAS, Raja Ramanna Fellow, Department of Biochemistry, Bose Institute, P-1/12, CIT Scheme, VII M, Kolkata 700 054, Tel. Off. (033) 2355 0256, Res. (033) 2422 3812, Fax (033) 2334 3886, email: bablu@jcbose.ac.in, sp. biophysical chemistry; biochemistry; molecular spectroscopy.
- Bhattacharyya, Gautam, b. 1966, Ph.D. (Calcutta), FNA, FNASc, Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar, Kolkata 700 064, Tel. Off. (033) 2337 5345-49/2355, Res. (033) 2499 6314, Mobile: 94330 28531, Fax (033) 2337 4637, email: gautam.bhattacharyya@saha.ac.in; gautam.sinp@gmail.com, URL: http://www.saha.ac.in/web/theory-personal-page?mid=70&tab=tab1, sp. particle physics phenomenology.

- Bhattacharyya, Kankan, b. 1954, Ph.D. (Calcutta), FNA, FNASc, FTWAS, Department of Physical Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1450 & 1461, Res. (033) 2436 4457, Mobile: 94330 71155, Fax (033) 2473 2805, email: pckb@iacs.res.in, URL: http://www.iacs.res.in/pckb.html, sp. experimental physical chemistry; femtosecond laser spectroscopy; single molecule spectroscopy.
- Bhattacharyya, Sankar Prasad, b. 1948, Ph.D. (Calcutta), Raja Ramanna Fellow, Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Res. (033) 2381 8095, Mobile: 99205 64541, 90512 85012, email: pcspb@chem.iitb. ac.in; pcspb123@gmail.com, URL: http://www.iacs.res.in/pcspb. html, sp. quantum chemistry.
- 1998 **Bhatwadekar,** Shrikant Mahadeo, b. 1946, Ph.D. (Bombay), FNA, Visiting Professor, Bhaskaracharya Pratishthana, 56/14, Erandwane, Damale Path, Off Law College Road, Pune 411 004, Tel. Res. (020) 6529 2821, email: smbhatwadekar@gmail.com, sp. commutative algebra; algebraic geometry.
- Bhawalkar, Dilip Devidas, b. 1940, Ph.D. (Southampton), FNA, FNASc, Director, Quantalase Enterprises Pvt. Ltd, 26, Paramanu Nagar, Indore 452 013, Tel. Off. (0731) 232 2707, Res. (0731) 232 0031, Mobile: 93032 37573, email: ddbhawalkar@yahoo.com, sp. lasers & laser instrumentation.
- 1996 **Bhisey,** Rajani Avinash, b. 1941, Ph.D. (Bombay), FNA, Res. 7, Yug Prabhat Co-operative Housing Society, Sitaladevi Temple Road, Mahim, Mumbai 400 016, Tel. (022) 2446 7356, Mobile: 98334 21249, email: rajani.bhisey@gmail.com, sp. environmental carcinogenesis; molecular epidemiology of cancer; occupational hazards.
- 1982 **Bhonsle,** Rajaram Vishnu, b. 1928, Ph.D. (Gujarat), Res. B/1, Mahagaokar Complex, Rajaram Road, Kolhapur 416 001, Tel. (0231) 252 2138, Mobile: 98224 20140, email: bhonsle.rajaram@yahoo.in, sp. solar terrestrial physics; radio astronomy; space science.
- 2000 **Bhosle,** Ushadevi Narendra, b. 1949, Ph.D. (TIFR), FNASc, FNA, Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2265, Mobile: 99306 41136, Fax (080) 2360 0146, email: usha@math.tifr.res.in; usnabh07@ gmail.com, sp. algebraic geometry.

- 1977 **Biswas,** Birendra Bijoy, b. 1928, Ph.D. (Calcutta), FNA, Res. CG-155, Salt Lake City, Kolkata 700 091, Tel. (033) 2334 8649, Mobile: 94334 24609, email: suswetabiswas@gmail.com, sp. nucleic acid metabolism; plant biochemistry; genetic engineering.
- Biswas, Gautam, b. 1956, Ph.D. (IIT, Kharagpur), FNASc, FNAE, FNA, JC Bose National Fellow, Director, Indian Institute of Technology, Guwahati 781 039, Tel. Off. (0361) 258 2005; (0361) 269 0401, Res. (0361) 258 4001, Fax (0361) 269 2321, email: gtm@iitg.ernet.in; gtm@iitk.ac.in, URL: http://home.iitk.ac.in/~gtm, sp. enhancement of heat transfer; computational fluid dynamics; bubble growth in film boiling; free surface flows; turbomachinery & turbulence.
- 2003 **Biswas,** Indranil, b. 1964, Ph.D. (Bombay), FNA, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2220, Res. (022) 2280 4832, Fax (022) 2280 4610–11, email: indranil@ math.tifr.res.in, sp. algebraic geometry; differential geometry; deformation quantization.
- Borges, Renee Maria, b. 1959, Ph.D. (Miami), Professor and Chairperson, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 2972; (080) 2293 3103, Res. (080) 2341 7366, Fax (080) 2360 1428, email: renee@ces.iisc.ernet.in, sp. evolutionary biology & behavioural ecology; focusing on species interactions; plant–animal interactions; chemical ecology; sensory biology; multimodal signalling including olfaction and visual ecology.
- Borkar, Vivek Shripad, b. 1954, Ph.D. (UC, Berkeley), FNA, FNASc, FNAE, FIEEE, FTWAS, FAMS, Department of Electrical Engineering, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 9405, Res. (022) 2572 8619, Fax (022) 2572 3707, email: borkar.vs@gmail.com, sp. stochastic control theory; applied probability.
- 2006 **Bose,** Arup, b. 1959, Ph.D. (ISI, Calcutta), FNA, FNASc, JC Bose National Fellow, Statistics & Mathematics Unit, Indian Statistical Institute, 203, B.T. Road, Kolkata 700 108, Tel. Off. (033) 2575 3409, Res. (033) 2429 8922, Mobile: 98304 96250, email: bosearu@gmail.com; abose@isical.ac.in, URL: www.isical.ac.in/~abose, sp. probability; statistics; economics.

- Bose, Dwarka Nath, b. 1938, Ph.D. (Reading), FNASc, Res. 7/2, Short Street, Kolkata 700 017, Tel. (033) 2287 5679, email: bose.dwarka@yahoo.com, sp. semiconductor materials & devices; VLSI technology; terahertz devices.
- 2000 **Bose,** Indrani, b. 1951, Ph.D. (Calcutta), FNASc, Emeritus Scientist, Department of Physics, Bose Institute, 93/1, APC Road, Kolkata 700 009, Tel. Off. (033) 2303 1184, Res. (033) 2352 3723, Mobile: 98306 06901, Fax (033) 2350 6790, email: indrani@jcbose.ac.in; indbose@yahoo.co.in, sp. theoretical condensed matter physics; statistical physics; biological physics & systems biology.
- 1990 **Bose,** Sujit Kumar, b. 1938, D.Sc. (Calcutta), Res. BE-188, Salt Lake City, Kolkata 700 064, Mobile: 94338 79408, email: sujitkbose@yahoo.com, sp. applied mathematics; solid mechanics; fluid mechanics & sediment transport.
- Brahmachari, Samir Kumar, b. 1952, Ph.D. (IISc), FNA, FNASc, FNAE, JC Bose National Fellow, CSIR Institute of Genomics and Integrative Biology, Mathura Road, New Delhi 110 020, Tel. Off. (011) 2987 9304, Fax (011) 2987 9111, email: skb@igib.res.in, URL: http://samirbrahmachari.rnabiology.org/, sp. functional genomics; genome informatics, systems biology and open source innovation.
- 2005 **Budhani,** Ramesh Chandra, b. 1955, Ph.D. (IIT, Delhi), FNASc, FNA, Department of Physics & Centre of Laser Technology, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7185; (0512) 259 7955, Fax (0512) 259 0914, email: rcb@iitk.ac.in, sp. experimental condensed matter physics; superconductivity; magnetism.
- 1993 **Chaddah,** Praveen, b. 1951, Ph.D. (Bombay), FNA, FNASc, Res. E-26, RRCAT Colony, Indore 452 013, Tel. (0731) 248 7326, Mobile: 96301 28811, email: chaddah.praveen@gmail.com, sp. superconductivity; low temperature physics; phase transitions.
- Chakrabarti, Bikas Kanta, b. 1952, Ph.D. (Calcutta), FNA, Senior Professor, Theoretical Condensed Matter Physics Division, Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata 700 064, Tel. Off. (033) 2337 5345–9/2453; (033) 2321 4869, Res. (033) 2370 9377, Mobile: 93395 11916, Fax (033) 2337 4637, email: bikask.chakrabarti@saha.ac.in, URL: www.saha.ac.in/cmp/bikask.chakrabarti/bikas.html, sp. statistical physics; condensed matter physics; computational physics & applications to social sciences.

- 2000 Chakrabarti, Partha Pratim, b. 1962, Ph.D. (IIT, Kharagpur), FNA, FNAE, Director, Indian Institute of Technology, Kharagpur 721 302, Tel. Off. (03222) 28 2004, (03222) 28 2006, Res. (03222) 28 3467, Mobile: 94340 13691, Fax (03222) 27 7190; (03222) 27 8985, email: ppchak@cse.iitkgp.ernet.in; director@iitkgp.ernet.insp. artificial intelligence; computer aided design for VLSI; algorithms.
- Chakrabarti, Pinakpani, b. 1955, Ph.D. (IISc), FNA, FNASc, FTWAS, Department of Biochemistry & Bioinformatics Centre, Bose Institute, P-1/12, CIT Scheme, VII M, Kolkata 700 054, Tel. Off. (033) 2569 3253, Res. (033) 2287 0327, Mobile: 98307 51009, Fax (033) 2355 3886, email: pinak@jcbose.ac.in; pinak\_chak@yahoo.co.in, URL: http://www.boseinst.ernet.in/bic/fac/pinak/index. html, sp. X-ray crystallography; structural biochemistry; bioinformatics.
- 2015 **Chakrabarti,** Soumen, b. 1969, Ph.D. (UC, Berkeley), FNAE, Department of Computer Science and Engineering, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7716, Res. (022) 2576 8716, Fax (022) 2572 0022, email: soumen@cse.iitb.ac.in, URL: http://www.cse.iitb.ac.in/~soumen/, sp. web search & mining; graph information retrieval.
- 2014 **Chakraborti,** Asit Kumar, b. 1954, Ph.D. (Jadavpur), Head, Department of Medicinal Chemistry, National Institute of Pharmaceutical Education & Research, Sector 67, SAS Nagar 160 062, Tel. Off. (0172) 221 4683-87/2027, Res. (0172) 223 3841, Mobile: 94177 70515, Fax (0172) 221 4692, email: akchakraborti@niper.ac.in; akchakraborti@rediffmail.com, sp. synthetic organic chemistry; medicinal chemistry; green chemistry.
- 2010 **Chakraborti,** Pradip Kumar, b. 1956, Ph.D. (Visva-Bharati), FNASc, FNA, Chief Scientist, CSIR Institute of Microbial Technology, Sector 39A, Chandigarh 160 036, Tel. Off. (0172) 269 0751, Res. (0172) 269 5488, Mobile: 98158 63975, Fax (0172) 269 0585, email: pradip@imtech.res.in, sp. biochemistry & molecular biology; molecular microbiology; prokaryotic signal transduction.

- 2015 **Chakraborty,** Tapas, b. 1961, Ph.D. (Jadavpur), Senior Professor, Department of Physical Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1470, Res. 72781 06229, Mobile: 98314 90265, Fax (033) 2473 2805, email: pctc@iacs.res.in, URL: http://www.iacs.res.in/physchem/pctc/, sp. molecular spectroscopy; mass spectrometry; photochemistry.
- 2003 Chakraborty, Tushar Kanti, b. 1957, Ph.D. (IIT, Kanpur), FNA, FNASc, Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2215, Fax (080) 2360 0529, email: tushar@orgchem.iisc.ernet.in; tusharkantichakraborty@gmail.com, sp. peptides & peptidomimetics; organic synthesis.
- Chakravarty, Akhil Ranjan, b. 1953, Ph.D. (Calcutta), FNA, FTWAS, Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2533, Res. (080) 2351 5407, Mobile: 94482 75407, Fax (080) 2360 1552, email: arc@ipc.iisc.ernet.in; akhil\_chakravarty@yahoo.co.in, URL: http://ipc.iisc.ernet.in/arc.html, sp. bioinorganic chemistry; coordination chemistry; metal-based anticancer agents.
- 2006 Chakravarty, Charusita, b. 1964, Ph.D. (Cambridge), Department of Chemistry, Indian Institute of Technology, Hauz Khas, New Delhi 110 016, Tel. Off. (011) 2659 1510, Res. (011) 2674 1109, Mobile: 98108 04202, Fax (011) 4716 5550, email: charus@chemistry.iitd.ernet.in, sp. chemical physics; physical, theoretical & computational chemistry.
- Chakravorty, Animesh, b. 1935, Ph.D. (Calcutta), D.Sc. (h.c.), FNA, FTWAS, Distinguished Emeritus Professor, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata; Res. Flat 8/3, 6, Sunny Park, Ballygunge, Kolkata 700 019, Tel. Off. (033) 2472 4436, Res. (033) 2485 8327, Mobile: 94338 01715, email: icac@iacs.res.in; animeshc31@gmail.com, sp. structural chemistry. Council Service: 1986–91.
- Chakravorty, Dipankar, b. 1937, Ph.D. (Penn. State), D.Sc. (h.c.), FNA, FTWAS, SERB Distinguished Fellow & INSA Honorary Scientist, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1580, Res. (033) 2476 1351, Mobile: 98300 61734, Fax (033) 2473 2805, email: mlsdc@iacs.res.in, sp. materials science; nanomaterials. Council Service: 1992–97.

- 1993 **Chander,** Ramesh, b. 1939, Ph.D. (Columbia), Res. 290, Sector 4, Mansa Devi Complex, Panchkula 134 114, Tel. (0172) 255 5884, email: profrchander@gmail.com, sp. seismology; geophysics.
- Chandola-Saklani, Asha, b. 1947, Ph.D. (Banaras), Consultant–Biosciences, Martin & Harris Pvt. Ltd., New Delhi; Director, Centre for Biosciences & Clinical Research, Apeejay Stya University, Sohna-Gurgaon NCR 122 103, Tel. Off. (0124) 428 6870; (0124) 428 6874, Res. (011) 4563 9301, Mobile: 99588 85335, email: ashachandola@apeejay.edu; ashachandola@gmail.com, sp. endocrinology; clinical research; ornithology; conservation biology; science education.
- Chandra, Amalendu, b. 1963, Ph.D. (IISc), FNA, Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7241, Res. (0512) 259 8446, Mobile: 94150 45276, Fax (0512) 259 7436, email: amalen@iitk.ac.in, URL: http://home.iitk.ac.in/~amalen, sp. statistical mechanics of liquids & interfaces; classical & quantum simulations; molecular modelling.
- 1979 **Chandra,** Hombegowda Sharat, b. 1938, Ph.D. (UC, Berkeley), FNA, FNASc, FTWAS, Centre for Human Genetics, Biotech Park, Electronic City, Phase I, Bengaluru 560 100, Tel. Off. (080) 2852 3596; (080) 2852 1832-33, Res. (080) 2663 9353, Fax (080) 2360 2697; (080) 2852 1832, email: sharat@ mcbl.iisc.ernet.in, sp. genetics & evolution. **Council Service:** 1986–91, 1998–2000; Secretary: 1986–91; Vice-President: 1998–2000.
- 1993 **Chandrakumar,** Narayanan, b. 1951, Ph.D. (IIT, Kanpur), FNA, Department of Chemistry, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4920, Res. (044) 2679 1073, Fax (044) 2257 4202, email: nckumar@iitm.ac.in; chandrakumar.iitm@gmail.com, sp. magnetic resonance imaging; MR spectroscopy, instrumentation; spin physics.
- Chandrasekaran, Srinivasan, b. 1945, Ph.D. (Madras), FNA, FTWAS, Honorary Professor, Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. & Fax (080) 2360 2423; (080) 2293 2404, Res. (080) 2351 2748, Mobile: 98860 88344, email: scn@orgchem.iisc.ernet.in, sp. synthetic organic chemistry; natural products; organometallic chemistry. Council Service: 2004–12, Secretary: 2004–09, Treasurer: 2010–12.

- 1992 **Chandrasekhar,** Jayaraman, b. 1952, Ph.D. (IIT, Madras), FNA, Gilead Sciences, 36, East Industrial Road, Branford, CT 06405, USA, Tel. Off. (+1-203) 315 7412, Res. (+1-203) 445 8797, email: jayaraman.chandrasekhar@gilead.com, sp. computational chemistry; theoretical organic chemistry; drug discovery.
- 2011 **Chandrasekhar,** Srivari, b. 1964, Ph.D. (Osmania), FNASc, FNA, Chief Scientist and Head, Division of Natural Products Chemistry, CSIR Indian Institute of Chemical Technology, Hyderabad 500 607, Tel. Off. (040) 2719 3210, Res. (040) 2742 3675, Mobile: 94408 02787, Fax (040) 2716 0512, email: srivaric@iict.res.in, sp. natural product synthesis; green chemistry; combinatorial chemistry; drug discovery.
- 2003 Chandrasekhar, Vadapalli, b. 1958, Ph.D. (IISc), FNA, FNASc, FTWAS, Director, National Institute of Science Education & Research, Institute of Physics Campus, Sachivalaya Marg, Bhubaneswar 751 005, Tel. Off. (0674) 230 2435, (0674) 230 4005, Mobile: 94370 57878, Fax (0674) 230 4070, email: director@niser.ac.in; vc@niser.ac.in, sp. inorganic chemistry; organometallic chemistry; inorganic rings & polymers; manygroup chemistry. Council Service: 2010–12.
- 1959 **Chandrasekharan,** Komaravolu, b. 1920, Ph.D. (Madras), FNA, Professor Emeritus, Eidg. Technische Hochschule, Mathematik, ETH Zentrum, 8092 Zürich, Switzerland, Tel. Res. (+41-1) 381 9686, sp. analysis; theory of numbers.
- 2000 Chandrashekar, Tavarekere Kalliah, b. 1956, Ph.D. (IISc), FNA, FNASc, FTWAS, Secretary, Science and Engineering Research Board, 5 & 5A, Lower Ground Floor, Vasant Square Mall, Vasant Kunj, New Delhi 110 070, Tel. Off. & Fax (011) 4000 0333, Res. (011) 4103 7540, Mobile: 98188 44936, email: secretary.serb@nic.in, sp. bioinorganic chemistry; synthetic inorganic chemistry; catalysis. Council Service: 2013–.
- Chandru, Vijay, b. 1953, Ph.D. (MIT), Chairman, Strand Life Sciences, Kirloskar Business Park, 5th Floor, Hebbal, Bengaluru 560 024, Tel. Off. (080) 4078 7314, Res. (080) 2361 5038, Mobile: 98452 02820, Fax (080) 4078 7299, email: chandru@alum.mit.edu; chandru@strandls.com, URL: http://in.linkedin.com/in/vijaychandru, sp. computational mathematics; computational biology; data science.

- 2008 **Chandy,** Mammen, b. 1949, MD (Madras), FRCP, Director, Tata Medical Center, 14, Major Arterial Road (E-W), New Town, Rajarhat, Kolkata 700 156, Tel. Off. (033) 6605 7577; (033) 6605 7582, Mobile: 96744 67726, email: mammen.chandy@ tmckolkata.com, sp. hematology; bone marrow transplantation; molecular genetics of blood diseases.
- Chattaraj, Pratim Kumar, b. 1958, Ph.D. (IIT, Mumbai), FNA, FNASc, FTWAS, Dean (Faculty) and Professor, Department of Chemistry, Indian Institute of Technology, Kharagpur 721 302, Tel. Off. (03222) 28 3304, Res. (03222) 28 3305, Fax (03222) 25 5303, email: pkc@chem.iitkgp.ernet.in; pratim. chattaraj@gmail.com, URL: http://www.chemistry.iitkgp.ac.in/~pkc/, sp. density functional theory; nonlinear dynamics; chemical reactivity; aromaticity in metal clusters, hydrogen storage.
- 2014 **Chattarji,** Sumantra, b. 1962, Ph.D. (Johns Hopkins), National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6525, Res. (080) 2366 6474, Mobile: 99800 33744, Fax (080) 2363 6675, email: shona@ncbs.res.in, URL: www.ncbs.res.in/shona, sp. neurobiology; biophysics; physiology.
- Chatterji, Dipankar, b. 1951, Ph.D. (IISc), FNA, FNASc, FTWAS, JC Bose National Fellow, Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru; Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2836; (080) 2360 0137, Res. (080) 2360 5458; (080) 2539 2055, Fax (080) 2360 0535, email: dipankar@mbu.iisc. ernet.in, sp. molecular biology; biophysical chemistry; biomolecular spectroscopy. Council Service: 2007–; Secretary: 2010–12; President: 2013–.
- 2010 Chattoo, Bharat Bhushan, b. 1949, Ph.D. (Delhi), FNA, FNASc, FNAAS, FTWAS, JC Bose National Fellow, Genome Research Centre, Department of Microbiology & Biotechnology Centre, M.S. University of Baroda, Baroda 390 002, Tel. Off. (0265) 279 3070; (0265) 279 4396, Res. (0265) 271 1979, Mobile: 98240 03982, Fax (0265) 279 2508, email: bharat.chattoo@bcmsu.ac.in; chattoo@gmail.com, sp. biotechnology, microbial & molecular genetics; genome analysis; bioprocess development.

- 2000 Chattopadhyay, Amitabha, b. 1956, Ph.D. (SUNY, Stony Brook), FNA, FNASc, FRSC, Adjunct Professor, IISER, Mohali & IIT, Kanpur; Outstanding Scientist, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2578; (040) 2716 0222, Res. (040) 2701 5197, Fax (040) 2716 0591, email: amit@ccmb.res.in, URL: http://www.ccmb.res.in/staff/amit/Pages/Index.htm, sp. membrane biology; molecular & cellular neurobiology; fluorescence spectroscopy & microscopy.
- **Chattopadhyay,** Debasis, b. 1967, Ph.D. (Calcutta), FNASc, Staff Scientist VI, National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2673 5189, Res. (011) 2673 5148, Mobile: 98682 40645, Fax (011) 2674 1658, email: debasis@nipgr.ac.in, URL: www.nipgr.res.in/research/dr\_dchattopadhyay.php, sp. abiotic stress of plant; plant virology; genome sequencing.
- **Chattopadhyay,** Dhrubajyoti, b. 1954, Ph.D. (Calcutta), FNASc, Director, Centre for Research in Nanoscience and Nanotechnology and Pro Vice Chancellor (Academic), University of Calcutta, 35, Ballygunge Circular Road, Kolkata 700 019, Tel. Off. & Fax (033) 2257 1470, Res. (033) 2334 9382, Mobile: 98310 83791, email: djcbcg@caluniv.ac.in, sp. transcription; molecular virology; oxidative stress response; metagenomics.
- **Chattopadhyay,** Joydev, b. 1963, Ph.D. (Jadavpur), Agricultural & Ecological Research Unit, Indian Statistical Institute, 203, B.T. Road, Kolkata 700 108, Tel. Off. (033) 2575 3231, Res. (033) 2553 9920, Mobile: 98305 46490, Fax (033) 2577 3049, email: joydev@isical.ac.in, sp. mathematical modelling on ecology; epidemiology & eco-epidemiology.
- **Chattopadhyay,** Kamanio, b. 1950, Ph.D. (Banaras), FNA, FNASc, FNAE, Chairman, Mechanical Sciences Division, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. & Fax (080) 2360 1991; (080) 2293 2262, email: kamanio@materials.iisc.ernet.in, sp. physical metallurgy; materials science & engineering.

- 2010 **Chattopadhyay,** Nitin, b. 1960, Ph.D. (Jadavpur), Department of Chemistry, Jadavpur University, Kolkata 700 032, Tel. Off. (033) 2457 2776, Res. (033) 2483 4133, Mobile: 94339 48648, Fax (033) 2414 6584, email: nitin.chattopadhyay@yahoo.com; nkchattopadhyay@chemistry.jdvu.ac.in, URL: http://sites.google.com/site/pcnitin/, sp. photophysics & photochemistry; timeresolved spectroscopy; biophysical chemistry; surface chemistry; fluorosensing; photoacoustic spectroscopy.
- Chattopadhyay, Samit, b. 1959, Ph.D. (Jadavpur), FNASc, FNA, JC Bose National Fellow, Scientist G, Chromatin and Cancer Biology Laboratory (8), National Centre for Cell Science, Pune University Campus, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2570 8064; (020) 2570 8161, Res. (020) 2589 6121, Mobile: 98234 09155, Fax (020) 2569 2259, email: samit@nccs.res.in; samitchatterji@yahoo.com, sp. chromatin remodeling & transcription regulation; cancer biology; immuno molecular biology.
- 2009 Chattopadhyay, Sudip, b. 1960, Ph.D. (Bose Institute, Calcutta), FNA, FNASc, Department of Biotechnology, National Institute of Technology, Mahatma Gandhi Avenue, Durgapur 713 209, Tel. Off. (0343) 275 4030, Res. (0343) 253 7416, Mobile: 96792 66581, Fax (0343) 254 7375, email: sudipchatto@gmail.com; sudip. chattopadhyay@bt.nitdgp.ac.in, sp. developmental biology; signal transduction.
- 1998 **Chaturvedi,** Subhash, b. 1950, D.Phil. (Waikato), FNASc, School of Physics, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4353, Res. (040) 2301 0744, Mobile: 99596 13709, Fax (040) 2301 0227, email: scsp@uohyd.ernet.in, sp. mathematical physics; guantum optics; quantum information & computation.
- Chaturvedi, Umesh Chandra, b. 1939, MD (Lucknow), FRC Path. (London), FNA, FNASc, FAMS, FAAM, Scientific Consultant, ICMR, Department of Health Research, New Delhi; Res. 201, Annapurna Apartments, No. 1, Bishop Rocky Street, Faizabad Road, Lucknow 226 007, Tel. (0522) 232 2975, Mobile: 94509 13506, Fax (0522) 233 2770, email: uchaturvedi201@gmail.com; ucc05@rediffmail.com, sp. medical microbiology; virology; immunology.

- Chaudhari, Raghunath Vitthal, b. 1948, Ph.D. (Bombay), FNA, FNAE, Deane E Ackers Distinguished Professor, Chemical & Petroleum Engineering Department, University of Kansas, Lawrence, KS 66047-1803, USA, Tel. Off. (+1-785) 864 1634, Res. (+1-785) 856 1194, Fax (+1-785) 864 6051, email: rvc1948@ ku.edu, sp. homogeneous & heterogeneous catalysis; biomass conversion to fuels & chemicals; multi-phase reactors & chemical reaction engineering; kinetics & mechanism.
- 2008 Chaudhuri, Arabinda, b. 1958, Ph.D. (Rutgers), Chief Scientist, Division of Lipid Science & Technology, CSIR Indian Institute of Chemical Technology, Uppal Road, Hyderabad 500 607, Tel. Off. (040) 2719 3235, Res. (040) 2715 6755, Mobile: 94400 40582, Fax (040) 2719 3370, email: arabinda@iict.res.in; arabindachaudhuri@gmail.com, sp. targetted gene/drug delivery systems.
- 1988 **Chaudhuri,** Mihir Kanti, b. 1947, Ph.D. (IIT, Kharagpur), Dr rer nat (FRG), FNA, Vice-Chancellor, Tezpur University, Tezpur 784 028, Tel. Off. (03712) 26 7003, Res. (03712) 26 7093, Mobile: 99544 49454, Fax (03712) 26 7006, email: mkc@tezu.ernet.in, sp. inorganic chemistry; synthesis, structure & reactivity; newer reagents, methodologies & green chemical technology.
- Chaudhuri, Probal, b. 1963, Ph.D. (UC, Berkeley), FNA, FNASc, Theoretical Statistics & Mathematics Unit, Indian Statistical Institute, 203, B.T. Road, Kolkata 700 108, Tel. Off. (033) 2575 3414; (033) 2575 3400, Res. (033) 2558 0105, Mobile: 98317 89429, Fax (033) 2577 3071, email: probal@isical.ac.in, URL: www.isical.ac.in/~probal, sp. robust & nonparametric statistics; statistical computing; statistical methods in pattern recognition & image processing; modelling & analysis of genomic data.
- 2005 **Chaudhuri,** Subhasis, b. 1963, Ph.D. (UC, San Diego), FNA, FNASc, FNAE, FIEEE, Deputy Director (Academic & Infrastructure Affairs) and Institute Chair Professor, Department of Electrical Engineering, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7010; (022) 2576 7437, Res. (022) 2572 0351, Fax (022) 2572 3707, email: sc@ee.iitb.ac.in, URL: www.ee.iitb.ac.in/~sc, sp. computer vision; image processing; computational haptics.

- Chauhan, Virander Singh, b. 1950, Ph.D. (Delhi), D.Phil. (Oxford), FNA, FNASc, Outstanding Scientist, International Centre for Genetic Engineering & Biotechnology, Post Box No. 10504, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2674 2317; (011) 2674 1358, Res. (011) 2669 3040, Fax (011) 2674 2316, email: viranderchauhan@gmail.com, sp. peptide synthesis & structure; malaria immunology; malaria drug development; self-assembly nanostructures in biomolecular delivery; biomarker discovery particularly in tuberculosis.
- 2011 **Chengalur,** Jayaram Narayanan, b. 1965, Ph.D. (Cornell), FNASc, Senior Professor, National Centre for Radio Astrophysics, Pune University Campus, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2571 9248, Res. (020) 2571 9348, Fax (020) 2569 7257, email: chengalur@ncra.tifr.res.in, sp. radio-astronomy; galaxy evolution.
- 2012 **Chhabra,** Rajendra Prasad, b. 1953, Ph.D. (Monash), FNAE, FNASc, FNA, Department of Chemical Engineering, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7393, Res. (0512) 259 8916, Mobile: 98397 41317, Fax (0512) 259 0104, email: chhabra@iitk.ac.in, sp. transport phenomena; rheology; non-Newtonian fluids.
- Chidambaram, Rajagopala, b. 1936, Ph.D. and D.Sc. (IISc), FNA, FNASc, FTWAS, Principal Scientific Adviser to the Government of India, 318, Vigyan Bhavan Annexe, Maulana Azad Road, New Delhi 110 001, Tel. Off. (011) 2302 2112, Res. (022) 2556 1315, Fax (011) 2302 2113, email: rc@barc.gov.in; rajachid@nic.in, sp. high pressure physics; neutron crystallography; materials science; nuclear technology. Council Service: 1989–97, Vice-President: 1992–97.
- 2009 **Chitnis,** Chetan Eknath, b. 1961, Ph.D. (UC, Berkeley), FNA, Staff Research Scientist, International Centre for Genetic Engineering & Biotechnology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2674 2895, Res. (0124) 430 0069, Mobile: 98104 00155, Fax (011) 2674 1358, email: cchitnis@icgeb.res.in, URL: www.icgeb.org/chetan-chitnis-lab.html, sp. molecular parasitology; vaccine development; malaria; molecular & cell biology.
- Chitre, Shashikumar Madhusudan, b. 1936, Ph.D. (Cambridge), FNA, FNASc, Res. 201, Vigyanshila, Juhu-Versova Link Road, near Seven Bungalows, Andheri (W), Mumbai 400 061, Tel. (022) 2635 3812, Mobile: 98193 66447, email: kumarchitre@ gmail.com, sp. solar physics; relativistic astrophysics; gravitational lenses. Council Service: 1995–2003; Vice-President: 1998–2003.

- 2015 **Chockalingam,** Ananthanarayanan, b. 1962, Ph.D. (IISc), FNA, FNASc, FNAE, Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3156, Res. (080) 2351 6637, Mobile: 89714 74971, Fax (080) 2360 0563, email: achockal@ece.iisc.ernet.in, URL: http://www.ece.iisc.ernet.in/~achockal, sp. wireless communications; wireless networking.
- 2005 **Chokshi,** Atul Harish, b. 1958, Ph.D. (USC, Los Angeles), FNA, FNASc, FNAE, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 1480; (080) 2293 2684, Res. (080) 2848 2409, Fax (080) 2360 0472, email: achokshi@materials.iisc.ernet.in, sp. high temperature deformation & failure; ceramics; nanomaterials.
- 1980 **Chopra,** Kasturi Lal, b. 1933, Ph.D. (British Columbia), FNA, FNAE, FNASc, Res. M-70, Kirtinagar, New Delhi 110 015, Tel. (011) 2515 4114, email: choprakl@gmail.com; choprakl@yahoo.com, sp. physics & technology of thin films; nanomaterials; surface science; photovoltaics.
- 1982 **Chopra,** Virender Lal, b. 1936, Ph.D. (Edinburgh), D.Sc. (h.c.), FNA, FNASc, FNAAS, FTWAS, Res. A3-210A, Janakpuri, New Delhi 110 058, Tel. (011) 2555 3747, email: virenderchopra@yahoo.com, sp. genetics & crop improvement; plant biotechnology.
- Choudary, Boyapati Manoranjan, b. 1946, Ph.D. (Gujarat), FNA, Managing Director, Ogene Systems India Private Limited, 5/A, 2nd Floor, Vengalrao Nagar, Hyderabad 500 038, Tel. Off. (040) 2381 5560, Res. (040) 2355 1539, Fax (040) 2381 5561, email: bmchoudary@gmail.com, sp. homogeneous & heterogeneous catalysis; organic synthesis via organometallics; nanotechnology & nanomedicine.
- Choudhary, Vasant Ramchandra, b. 1944, Ph.D. (Pune), FNASc, FNA, Res. Vasantasha Bungalow, 1-Green Park, Off. D.P. Road, Aundh, Pune 411 007, Tel. (020) 6526 5508, Mobile: 92251 06141, email: vrc0001@yahoo.co.in, sp. heterogeneous catalysis; zeolites: adsorption/catalysis; natural gas & lower alkane conversion/utilization; green chemistry/processes.
- 2010 Choudhury, Debajyoti, b. 1964, Ph.D. (IIT, Kanpur), FNA, FNASc, Department of Physics & Astrophysics, University of Delhi, Delhi 110 007, Tel. Off. (011) 2766 7061, Res. (011) 2726 1536, Mobile: 92132 11830, email: debajyoti.choudhury@gmail.com, sp. high energy physics; cosmology.

- 2004 **Chowdhury,** Debashish, b. 1957, Ph.D. (IIT, Kanpur), FNASc, FNA, JC Bose National Fellow, Department of Physics, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7039, Res. (0512) 259 8465, Fax (0512) 259 0914, email: debch@iitk.ac.in, URL: http://home.iitk.ac.in/%7Edebch/index.html, sp. statistical physics; condensed matter physics; biological physics.
- 1977 **Chowdhury,** Mihir, b. 1937, Ph.D. (Calcutta), D.Sc. (h.c.), FNA, Res. 50-U, Garcha Road, Kolkata 700 019, Tel. (033) 2461 9625, sp. molecular spectroscopy; magnetic field effect on chemical reaction dynamics.
- 2015 **Chowdhury,** Shantanu, b. 1968, Ph.D. (IICT, Hyderabad), FNASc, Principal Scientist, CSIR Institute of Genomics and Integrative Biology, Sukhdev Vihar, Mathura Road, New Delhi 110 025, Tel. Off. (011) 2987 9487, Mobile: 98109 53135, Fax (011) 2987 9111, email: shantanuc@igib.res.in, URL: http://www.igib.res.in/?q=ShantanuChowdhury, sp. structural & molecular biology; genomics.
- Cowsik, Ramanath, b. 1940, Ph.D. (Bombay), FNA, FNASc, FTWAS, Foreign Assoc., US Natl. Acad. Sci., Adjunct Professor, Raman Research Institute, Bengaluru; Director, McDonnell Center for Space Sciences, Department of Physics, Washington University, Campus Box 1105, One Brookings Drive, St Louis, MO 63130-4899, USA, Tel. Off. (+1-314) 935 4493, Res. (+1-314) 727 5959, Fax (+1-314) 935 6219, email: cowsik@physics.wustl. edu, URL: http://physics.wustl.edu/people/cowsik\_ram, sp. astrophysics; non-accelerator particle physics; experimental gravitation.
- Dabholkar, Atish Shripad, b. 1963, Ph.D. (Princeton), Senior Research Scientist, International Centre for Theoretical Physics, 11, Strada Costiera, 34151 Trieste, Italy, Tel. Off. (+39-040) 224 0285, email: atish@ictp.it, sp. quantum gravity; superstring theory; black holes.
- Dani, Shrikrishna Gopalrao, b. 1947, Ph.D. (Bombay), FNA, FNASc, Distinguished Professor, Department of Mathematics, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7453, Res. (022) 2576 8453, Mobile: 97572 82263, Fax (022) 2572 3480, email: sdani@math.iitb.ac.in; shrigodani@gmail.com, sp. ergodic theory; dynamics; measures on Lie groups; history of mathematics. Council Service: 1998–2000.

- 2011 Das, Amita, b. 1965, Ph.D. (IIT, Kanpur), Institute for Plasma Research, Near Indira Bridge, Bhat, Gandhinagar 382 428, Tel. Off. (079) 2396 2078, Res. (02717) 23 5964, Mobile: 98795 65174, Fax (079) 2396 2277, email: amita@ipr.res.in, sp. plasma physics; turbulence; electron magnetohydrodynamics; laser plasma interaction.
- Das, Amitava, b. 1959, Ph.D. (Jadavpur), FNASc, Senior Principal Scientist, Organic Chemistry Division, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2385, Res. (020) 2589 8586, Mobile: 82752 25356; 94280 51283, Fax (020) 2590 2629, email: a.das@ncl.res.in; das\_amitava2@rediffmail.com, sp. molecular recognition; supramolecular chemistry & assembly; interfacial electron transfer; laser plasma interaction.
- Das, Bhudev Chandra, b. 1948, Ph.D. (Banaras), FNASc, FAMS, FNA, JC Bose National Fellow, Chairman & HG Khorana Chair Professor, Amity Institute of Molecular Medicine & Stem Cell Research, Amity University, Sector 125, Noida 201 313, Tel. Off. (0120) 458 6855, Mobile: 98105 66870; 98105 37835, Fax (0120) 439 2114, email: bcdas48@hotmail.com; bcdas@amity.edu, sp. molecular oncology; molecular virology; human genetics & stem cell biology.
- Das, Pijush Kanti, b. 1952, Ph.D. (Calcutta), FNA, FNASc, Head, Infectious Diseases and Immunology Division, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2414 0921; (033) 2473 3491, Res. (033) 2476 9216, Mobile: 98313 41358, Fax (033) 2473 5197, email: pijushdas@iicb.res.in; pijush52@gmail.com; sp. biochemistry; cell biology; immunology.
- 2008 **Das,** Puspendu Kumar, b. 1958, Ph.D. (Columbia), Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2662, Res. (080) 2360 2223, Mobile: 94802 58065, Fax (080) 2360 1552, email: pkdas@ipc.iisc.ernet.in; pkdasipc@gmail.com, sp. physical chemistry; laser spectroscopy & dynamics; nonlinear optics.
- 2010 **Das,** Samar Kumar, b. 1963, Ph.D. (IIT, Kanpur), School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2301 1007, Res. (040) 2301 0536, Mobile: 99594 25259, Fax (040) 2301 2460, email: skdsc@uohyd.ernet.in; samar439@ gmail.com, sp. coordination chemistry; metal-oxide based cluster chemistry; inorganic supramolecular chemistry; dithiolene-based materials

- 2009 Das, Saumitra, b. 1962, Ph.D. (Calcutta), FNASc, FNA, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2886, Res. (080) 2360 3632, Fax (080) 2360 2697, email: sdas@mcbl.iisc.ernet.in, sp. molecular virology; molecular biology; cell biology.
- 2005 Das, Shankar Prasad, b. 1959, Ph.D. (Chicago), School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2673 8768, Res. (011) 2612 1583, Mobile: 98996 74943, Fax (011) 2674 2580, email: shankar@jnu.ac.in; spd@uchicago.edu, URL: http://www.jnu.ac.in/Faculty/spdas, sp. condensed matter theory; statistical physics; stochastic processes.
- 1998 Das, Sumit Ranjan, b. 1955, Ph.D. (Chicago), Department of Physics & Astronomy, University of Kentucky, Lexington, KY 40506, USA, Tel. Off. (+1-859) 257 4686, Fax (+1-859) 323 2846, email: das@pa.uky.edu, sp. string theory; quantum field theory; quantum aspects of black holes.
- Das, Suresh, b. 1955, Ph.D. (Newcastle), FNA, Director, CSIR National Institute for Interdisciplinary Science & Technology, Industrial Estate P.O., Thiruvananthapuram 695 019, Tel. Off. (0471) 249 0324; (0471) 249 3599, Res. (0471) 254 4309, Fax (0471) 249 1712, email: director@niist.res.in, sp. photochemistry; photoresponsive materials; liquid crystals; photosensitizing dyes; luminescent materials & photoinduced electron transfer.
- 1998 Das Gupta, Chanchal Kumar, b. 1945, Ph.D. (Calcutta), FNA, FNASc, INSA Senior Scientist, Department of Life Sciences & Biotechnology, Jadavpur University, Kolkata 700 032, Res. (033) 4006 5279, Mobile: 90078 89857, email: chanchaldg2000@ yahoo.com, sp. genetic recombination; protein folding.
- Dasannacharya, Balebail Anantha, b. 1937, Ph.D. (Bombay), FNA, Res. No. 4, Beach Resort CHS, Sector 10-A, Plot 1, Vashi, Navi Mumbai 400 703, Tel. (022) 2766 3957, Mobile: 98690 24550, email: adasannacharya@gmail.com, sp. neutron & X-ray spectrometry; condensed matter physics.
- 1992 **Dasgupta,** Chandan, b. 1951, Ph.D. (Pennsylvania), FNA, FNASc, FTWAS, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3278, Res. (080) 2334 5417, Fax (080) 2360 2602, email: cdgupta@physics.iisc.ernet.in, URL: www.physics.iisc.ernet.in/~cdgupta/, sp. theoretical condensed matter physics; statistical physics.

- 2010 Dasgupta, Indranil, b. 1958, Ph.D. (JNU), FNASc, FNA, Department of Plant Molecular Biology, University of Delhi South Campus, Benito Juarez Road, New Delhi 110 021, Tel. Off. (011) 2411 1639, Res. (011) 4277 8520, Mobile: 99103 34110, Fax (011) 2411 1208, email: indranil58@yahoo.co.in, sp. molecular plant–virus interactions; transgenic viral resistance in plants; genome organization in plant viruses.
- Dasgupta, Pallab, b. 1967, Ph.D. (IIT, Kharagpur), FNAE, Department of Computer Science and Engineering, Indian Institute of Technology, Kharagpur 721 302, Tel. Off. (03222) 28 3470; (03222) 28 2047, Res. (03222) 28 3471, Mobile: 94340 16141, Fax (03222) 27 7190, email: pallab@cse.iitkgp.ernet.in, URL: http://www.facweb.iitkgp.ernet.in/~pallab, sp. formal methods; electronic design automation; artificial intelligence.
- 1997 **Dasgupta,** Somnath, b. 1951, Ph.D. (Jadavpur), FNA, FNASc, FTWAS, JC Bose National Fellow, Vice Chancellor, Assam University, Silchar 788 011, Tel. Off. (03842) 27 0801, Mobile: 98311 67145, Fax (03842) 27 0802, email: somnathdasg@gmail.com, sp. metamorphic petrology; geochemistry; precambrian geology.
- 1992 Dash, Anadi Charan, b. 1941, Ph.D. (Utkal), Res. 14(P)/369, Gajapati Nagar, Bhubaneswar 751 005, Tel. (0674) 230 1707, Mobile: 94377 77730, email: acdash1@rediffmail.com; acdash41@gmail.com, sp. physical inorganic chemistry.
- Dash, Debabrata, b. 1958, MD & Ph.D. (Banaras), DSc (Utkal and Banaras) FNA, FAMS, Department of Biochemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi 221 005, Tel. Off. (0542) 670 3243, Res. (0542) 236 9300, Mobile: 93369 10665; 96709 57414, Fax (0542) 236 7568, email: ddash.biochem@gmail.com, URL: http://www.bhu.ac.in/ims/biochemistry/Ddash.html, sp. thrombus biology; platelet biochemistry & signal transduction; translational nanomedicine (biomedical applications of nanotechnology).
- 1975 **Dastidar,** Pranab Rebatiranjan, b. 1933, Ph.D. (Manchester), Res. F-3, Rajkunj Co-operative Housing Society, Wadhavli, Chembur, Mumbai 400 074, Tel. (022) 2553 4498, email: pranabd2002@ yahoo.co.in, sp. electronics; controls; nuclear power.

- Datta, Alok Kumar, b. 1946, Ph.D. (Calcutta), FNA, INSA Senior Scientist, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2499 5734, Res. (033) 2416 2995, Mobile: 98360 12725, Fax (033) 2473 0284, email: alokdatta@iicb.res.in; mail\_alokd@yahoo.co.in, sp. nucleic acid enzymology; protein chemistry; parasitology; recombinant DNA technology.
- Datta, Asis, b. 1944, Ph.D. & D.Sc. (Calcutta), D.S. (h.c.), FNA, FNASc, FTWAS, Distinguished Scientist, National Institute of Plant Genome Research, Aruna Asaf Ali Marg, P.O. Box 10531, JNU Campus, New Delhi 110 067, Tel. Off. (011) 2674 2750; (011) 2673 5119, Res. (0124) 420 5590, Mobile: 98108 55666, Fax (011) 2674 1759;(011) 2674 1658, email: asis\_datta@rediffmail.com; asis\_datta@nipgr.ac.in, sp. biochemistry; molecular biology; genetic engineering.
- 2009 Datta, Basudeb, b. 1957, Ph.D. (ISI), FNASc, Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3211, Res. (080) 2341 3118, Fax (080) 2360 0146, email: dattab@math.iisc.ernet.in, URL: http://math.iisc.ernet.in/~dattab/, sp. geometric topology; algebraic topology; combinatorics.
- Datta, Kasturi, b. 1943, Ph.D. (Calcutta), FNA, FNASc, FTWAS, DBT Distinguished Biotechnology Professor, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2670 4327, Res. (0124) 420 5590, Mobile: 98103 26590, Fax (011) 2674 1502, email: kdatta@mail.jnu.ac.in; datta\_k@hotmail.com, sp. biochemistry; molecular & cell biology; rDNA technology & human genome function.
- 1992 **Dattagupta,** Sushanta, b. 1947, Ph.D. (St. John's Univ./ Brookhaven Natl. Lab), FNA, FNASc, FTWAS, Vice Chancellor, Visva-Bharati, Santiniketan 731 235, Tel. Off. (03463) 26 2451, Res. (03463) 26 2481, Fax (03463) 26 2672, email: vice-chancellor@visva-bharati.ac.in, sp. condensed matter physics; non-equilibrium statistical mechanics. **Council Service**: 2001–09; Vice-President: 2004–09.
- 1984 **Deb,** Bidyendu Mohan, b. 1942, D.Phil. (Oxon), FNA, FTWAS, INSA Senior Scientist, Visva-Bharati University, Publishing Department, 6 A.J.C. Bose Road, Kolkata 700 017, Tel. Res. (033) 2424 5644, Mobile: 98307 99629, Fax (033) 2587 3020, email: bmdeb@yahoo.co.in, sp. theoretical chemistry; chemical physics. **Council Service**: 1995–2000.

- 2006 **Deb,** Kalyanmoy, b. 1962, Ph.D. (Alabama), FIEEE, FNA, FNAE, Koenig Endowed Chair Professor, Electrical and Computer Engineering, Michigan State University, East Lansing, MI 48864, USA, Tel. Off. (+1-517) 930 0846, email: kdeb@egr.msu.edu, URL: http://www.iitk.ac.in/kangal/deb.htm, sp. optimization & design; genetic algorithms; multi-objective optimization.
- Deekshatulu, Bulusu Lakshmana, b. 1936, Ph.D. (IISc), FNA, FNASc, FIEEE (USA), FTWAS, Distinguished Fellow IDRBT, Hyderabad; Res. 10-3-123/3, East Maredpally, Secunderabad 500 026, Tel. (040) 2773 2423, Mobile: 99084 99081, email: deekshatulu@gmail.com, sp. control systems; digital image processing; pattern recognition; remote sensing; machine learning.
- 1987 **Deepak Kumar,** b. 1946, Ph.D. (Pennsylvania), Raja Ramanna Fellow, School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2673 8810, Res. (0120) 427 3742, Mobile: 98100 98971, Fax (011) 2674 1537, email: dk0700@mail.jnu.ac.in; deepak1446@gmail.com, sp. condensed matter physics; statistical mechanics; quantum mechanics.
- Deo, Madhav Gajanan, b. 1932, M.D., Ph.D. (AIIMS), FNA, FNASc, FAMS,Vice President, Moving Academy of Medicine and Biomedicine, Pune; Res. C-13, Kubera Gulshan Apartments, D.P. Road, Aundh, Pune 411 007, Tel. Off. (020) 2544 9649, Res. (020) 2589 3128, Mobile: 99224 03266, Fax (020) 2544 9649, email: deo.madhav@gmail.com, sp. pathology; oncology; medical education.
- Deshpande, Suresh Madhusudhan, b. 1942, Ph.D. (IISc), FNAE, Consultant, Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2861, Res. (080) 2341 2029, Mobile: 94484 71243, Fax (080) 2208 2766, email: smd@jncasr.ac.in; desh1942@gmail.com, URL: http://www.jncasr.ac.in/smd/, sp. computational fluid dynamics; meshfree methods; data assimilation.
- 1993 **Desiraju,** Gautam Radhakrishna, b. 1952, Ph.D. (Illinois), FNA, FNASc, FTWAS, Solid State Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3311, Fax (080) 2360 2306, email: desiraju@sscu.iisc. ernet.in, sp. structural chemistry; crystal engineering; X-ray crystallography.

- 2006 Dev, Bhupendra Nath, b. 1953, Ph.D. (SUNY, Albany), FNASc, Senior Professor, Department of Materials Science, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1200, Res. (033) 2334 5258, Mobile: 94338 47131, Fax (033) 2473 2805, email: msbnd@iacs.res.in, sp. surface & nanoscale physics; X-ray physics; ion–solid interactions.
- 2008 Dey, Gautam Kumar, b. 1957, Ph.D. (Banaras), FNAE, Homi Bhabha National Institute, Mumbai; Dean Academic (Engineering Sciences) and Head, Materials Science Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400 085, Tel. Off. (022) 2559 5063, Res. (022) 2550 2075, Mobile: 99201 97258, Fax (022) 2550 5151, email: gkdey@barc.gov.in; gautam\_k\_dey@yahoo.com, sp. phase transformations in metals & alloys; electron microscopy; metallic glasses & nanocrystalline materials.
- 2012 Dey, Subhasish, b. 1958, Ph.D. (IIT, Kharagpur), FNAE, FNASc, Department of Civil Engineering, Indian Institute of Technology, Kharagpur 721 302, Tel. Off. (03222) 28 3418, Res. (03222) 28 3419, Mobile: 94347 13850, Fax (03222) 28 2254, email: sdey@iitkgp.ac.in, URL: http://www.facweb.iitkgp.ernet.in/~sdey/, sp. fluid mechanics; hydraulics; turbulence; sediment transport.
- 2012 Dhar, Abhishek, b. 1970, Ph.D. (Bombay), International Centre for Theoretical Sciences, TIFR Centre Building, Indian Institute of Science Campus, Bengaluru 560 012, Tel. Off. (080) 2360 8200/25, Res. (080) 2345 4205, Mobile: 91641 83540, Fax (080) 2361 0492, email: abhishek.dhar@icts.res.in, sp. nonequilibrium statistical physics; condensed matter physics.
- 1990 Dhar, Deepak, b. 1951, Ph.D. (Caltech), FNA, FNASc, FTWAS, Theoretical Physics Group, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2427, Res. (022) 2280 4835, Fax (022) 2280 4610, email: ddhar@theory.tifr.res.in, sp. statistical physics; stochastic processes.
- Dharmalingam, Kuppamuthu, b. 1949, Ph.D. (MKU), FNASc, Director-Research, Aravind Medical Research Foundation, 1, Anna Nagar, Madurai 625 020, Tel. Off. (0452) 435 6550, Res. (0452) 245 9636, Mobile: 94431 48447, Fax (0452) 253 0984, email: dharmalingam.k@gmail.com, sp. molecular genetics; genetic engineering; proteomics of eye diseases; biotechnology.

- 2009 Dhavale, Dilip Dattatray, b. 1956, Ph.D. (Pune), FNASc, Professor and Head, Department of Chemistry, University of Pune, Pune 411 007, Tel. Off. (020) 2569 1727, Res. (020) 2588 4172, Mobile: 94225 21594, Fax (020) 2569 1728, email: ddd@chem.unipune. ac.in; dilipdhavale56@gmail.com, sp. synthesis of natural products; carbohydrate chemistry; photochemistry; reaction mechanism; medicinal chemistry.
- 2002 **Dhurandhar,** Sanjeev Vishnu, b. 1951, Ph.D. (Bombay), FNASc, Inter-University Centre for Astronomy & Astrophysics, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4123, Res. (020) 2569 4234, Fax (020) 2560 4699, email: sanjeev@iucaa. ernet.in, sp. gravitational waves; general relativity; theoretical astrophysics.
- 2013 Dighe, Amol, b. 1970, Ph.D. (Chicago), FNA, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2423, Res. (022) 2280 4699, Mobile: 99673 96593, Fax (022) 2278 2777, email: amol@theory.tifr.res.in, URL: http://theory.tifr.res.in/~amol/, sp. particle physics phenomenology, astroparticle physics.
- 2010 **Dighe,** Rajan Ramakant, b. 1951, Ph.D. (IISc), FNASc, FNA, Department of Molecular Reproduction, Development & Genetics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3261; (080) 2293 2660, Res. (080) 2366 3313, Mobile: 99019 03513, Fax (080) 2360 0999, email: rdighe@mrdg.iisc.ernet.in, sp. molecular endocrinology; reproductive biology; biochemistry.
- Dikshit, Madhu, b. 1957, Ph.D. (Kanpur), FNASc, FNA, Chief Scientist, Pharmacology Division, CSIR Central Drug Research Institute, Sector 10, Jankipuram Extension, Sitapur Road, Lucknow 226 031, Tel. Off. (0522) 277 2450; (0522) 277 2550/4960, Res. (0522) 404 9810, Mobile: 94151 11766, Fax (0522) 277 1941, email: madhudikshit@yahoo.com; madhu\_dikshit@cdri.res.in, sp. cardiovascular pharmacology; molecular pharmacology; redox biology; neutrophils & nitric oxide synthase.
- Dileep Kumar, Maripi, b. 1954, Ph.D. (Andhra), FNA, FNASc, Consultant, Chemical Oceanography Division, CSIR-National Institute of Oceanography, Dona Paula 403 004, Tel. Off. (0832) 245 0398, Res. (0832) 244 6657, Fax (0832) 245 6702-03, email: dileep@nio.org; dileep542003@yahoo.co.in, sp. control of seawater composition; biogeochemical cycles; global change & chemical oceanography.

- Dua-Sharma, Sushil, b. 1926, MD (AIIMS), Ph.D. (Panjab), FAMS, Res. 503, 6th A Main, 12th Cross, HIG Colony, RMV II Stage, Bengaluru 560 094, Tel. (080) 2341 4004, Mobile: 99863 39224, email: sduasharma@yahoo.co.in, sp. neurophysiology; reproductive biology; nutrition.
- Dube, Anuradha, b. 1955, Ph.D. (Kanpur), FNA, Chief Scientist, Division of Parasitology, Central Drug Research Institute, Sector 10, Jankipuram Extension, Sitapur Road, Lucknow 226 031, Tel. Off. (0522) 277 1940, Res. (0522) 273 3454, Mobile: 94509 31332, Fax (0522) 277 1941, email: a\_dube@cdri.res.in; anuradhadube@gmail.com, URL: http://www.cdriindia.org/anuradha.htm, sp. parasite (leishmania); immunobiology; drug discovery; model development.
- 2012 Durga Prasad, Mallampalli, b. 1956, Ph.D. (Calcutta), School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4855, Res. (040) 2756 4164, Mobile: 94411 38784, Fax (040) 2301 2460, email: mdpsc@uohyd.ac.in, sp. theoretical chemistry; molecular vibrations.
- 2012 Dutta, Pradip, b. 1960, Ph.D. (Columbia), FNAE, FNASc, FNA, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3225, Res. (080) 2699 3249, Mobile: 98450 10520, Fax (080) 2360 4536, email: pradip@mecheng.iisc.ernet.in, sp. heat transfer; energy studies.
- Dutta-Gupta, Aparna, b. 1953, Ph.D. (Banaras), FNA, FNASc, Department of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4560, Res. (040) 2301 0348, Mobile: 93910 74729, Fax (040) 2301 0145, email: apdgsl@uohyd.ernet.in; aparnaduttagupta@gmail.com, sp. insect physiology & biochemistry; invertebrate endocrinology & physiology; comparative physiology & endocrinology.
- Dutta Roy, Suhash Chandra, b. 1937, D.Phil. (Calcutta), FNA, FNAE, FNASc, INSA Honorary Scientist, Res. 164, Hauz Khas Apartments (SFS), New Delhi 110 016, Tel. (011) 2696 3054, Mobile: 98714 70136, email: s.c.dutta.roy@gmail.com, sp. signal processing; network theory; electronic circuits.

- Easwaran, Kalpathy Ramaier Katchap, b. 1939, Ph.D. (IISc), FNA, Emeritus Professor and INSA Honorary Scientist, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Res. (080) 4094 3455, Mobile: 99866 22397, email: krke@ mbu.iisc.ernet.in; krk\_easwaran@yahoo.com, sp. structural biology; membrane biophysics; molecular biophysics.
- 1990 **Gadagkar,** Raghavendra, b. 1953, Ph.D. (IISc), FNA, FNASc, FTWAS, Foreign Assoc., US Natl. Acad. Sci., JC Bose National Fellow, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 1429; (080) 2293 2340, Res. (080) 2360 1758, Fax (080) 2360 1429, email: ragh@ces.iisc.ernet.in, URL: http://ces.iisc.ernet.in/hpg/ragh, sp. animal behaviour; ecology; evolution. **Council Service**: 1995–2003; Secretary: 1995–2000.
- 1979 Gadgil, Madhav Dhananjaya, b. 1942, Ph.D. (Harvard), FNA, FNASc, FTWAS, Foreign Assoc., US Natl. Acad. Sci., DD Kosambi Visiting Research Professor, Goa University, Goa; Res. A-18, Spring Flowers, Panchavati, Pashan, Pune 411 008, Tel. (020) 2589 3424, Mobile: 98811 53413, email: madhav.gadgil@gmail.com, sp. ecology; environmental management & traditional knowledge systems; ecological history. Council Service: 1983–85; Secretary: 1983–85.
- 1985 **Gadgil,** Sulochana, b. 1944, Ph.D. (Harvard), FNA, Res. A-18, Spring Flowers, Panchavati, Pashan, Pune 411 008, Tel. (020) 2589 3424, email: sulugadgil@gmail.com, sp. meteorology; oceanography; evolutionary biology.
- 1991 **Gadre,** Shridhar Ramchandra, b. 1950, Ph.D. (IIT, Kanpur), FNA, Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. & Fax (0512) 259 6706, Res. (0512) 259 8256, Mobile: 99606 24664, email: gadre@iitk.ac.in, sp. quantum chemistry; computer applications.
- 1974 **Gaitonde,** Bhikaji Balwant, b. 1926, MD (Mumbai), FAMS, Res. Banda District, Sindhudurg 416 511, Tel. (02363) 27 0272, Mobile: 94223 73099, email: bbgaitonde@yahoo.com, sp. Communicable diseases; clinical pharmacology; indigenous drugs.

- Galande, Sanjeev, b. 1967, Ph.D. (IISc), Centre of Excellence in Epigenetics, Indian Institute of Science Education and Research, Sixth Floor, First Tower, Sai Trinity Building, Garware Circle, Sutarwadi, Pashan, Pune 411 021, Tel. Off. (020) 2590 8060, Res. (020) 2553 9664, Mobile: 99233 63737, Fax (020) 2586 5315, email: sanjeev@iiserpune.ac.in, URL: http://www.iiserpune.ac.in/~sanjeev/, sp. epigenetics; chromatin biology; gene regulation; genomics & proteomics.
- 1990 **Gandhi,** Kandukuri Sivananda, b. 1942, Ph.D. (UC, Berkeley), Honorary Professor, Department of Chemical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2320, Fax (080) 2360 8121, email: gandhi@chemeng.iisc.ernet.in, URL: http://chemeng.iisc.ernet.in/gandhi/home.html, sp. batteries and fuel cells; multiphase fluid systems; polymer reaction engineering.
- Ganesh, Krishnarajanagar Nagappa, b. 1953, Ph.D. (Delhi & Cambridge), FNA, FNASc, FTWAS, Director, Indian Institute of Science Education & Research, Dr Homi Bhabha Road, Pune 411 008, Tel. Off. (020) 2590 8009, Res. (020) 2590 8282, Fax (020) 2586 5315, email: kn.ganesh@iiserpune.ac.in, sp. bioorganic chemistry; biomolecular spectroscopy; chemistry & biology of nucleic acids; peptides & lipids. Council Service: 2013—.
- 1992 **Ganeshaiah,** Kotiganahalli Narayanagowda, b. 1953, Ph.D. (UAS, Bangalore), FNA, FNAAS, Head, Department of Forestry & Environmental Sciences, and School of Ecology & Conservation, University of Agricultural Sciences, GKVK, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2363 6276; (080) 2333 0153/356, Res. (080) 2363 6412, Mobile: 93421 60639, Fax (080) 2353 0070, email: knganeshaiah@gmail.com, sp. plant evolutionary biology; plant genetics & breeding; foraging ecology of ants; biodiversity & conservation; bio-resource databases.
- 1996 **Gangal,** Sharad Vishwanath, b. 1937, Ph.D. (Bombay), FNASc, Director, Institute of Environmental Medicine, Kasturba Hospital, Mumbai; Res. Lakshmi Niwas, opp. Santoshi Mata Temple, (B-Cabin), Sane Guruji Path, Naupada, Thane 400 602, Tel. (022) 2537 6961, Mobile: 93249 24307, email: sharadvgangal@hotmail.com, sp. allergy; immunology; biochemistry.

- 1990 Gangal, Sudha Gajanan, b. 1934, Ph.D. (Bombay), FNA, Res. 4, Mahavishnu Apartments, Dahanukar Colony A, Kothrud, Pune 411 029, Tel. (020) 2538 4382, Mobile: 99216 37998, email: sudha.gangal@yahoo.in, sp. cancer & basic immunology; cell biology; genetic diseases. Council Service: 1995–97.
- Qanguli, Ashok Kumar, b. 1961, Ph.D. (IISc), FNASc, Department of Chemistry, Indian Institute of Technology, New Delhi 110 016; Director, Institute of Nanoscience & Technology, Habitat Centre, Sector 64, Phase X, Mohali 160 062, Tel. Off. (0172) 221 0073, Res. (011) 2659 1654, Mobile: 98104 64112, Fax (0172) 211 0074, email: director@inst.ac.in; ashok@chemistry.iitd.ac.in, URL: http://www.inst.ac.in/director.php; http://web.iitd.ac.in/~ashokganguli/, sp. microemulsions; nanostructured materials & devices; photo & electro catalysis; complex metal oxides; superconducting materials.
- 1992 **Ganguli,** Som Nath, b. 1940, Ph.D. (Bombay), Res. Flat No. 6, Aspiration Apartments, 32, Francois Martin Street, Kuruchikuppam, Pondicherry 605 012, Tel. (0413) 234 4643, email: som\_ganguli@yahoo.co.in, sp. high energy particle physics.
- Ganguly, Chaitanyamoy, b. 1946, Ph.D. (Calcutta), FNA, FNAE, FNASc, INSA Senior Scientist & Adviser, Engineering Staff College of India, Hyderabad; Res. A-601, Aditya DSR Lakeside, Gachibowli, Hyderabad 500 032, Tel. Off. (040) 6630 4164, Res. (040) 4221 7549, Mobile: 80082 22016, email: chaitanya.ganguly@gmail.com; chm\_ganguly@yahoo.com, sp. uranium, plutonium & thorium fuels and fuel cycle; energy & environment; advanced ceramics and powder metallurgy.
- Ganguly, Nirmal Kumar, b. 1941, MD (PGI, Chandigarh), D.Sc. (h.c.), FAMS, FNA, FNASc, FRC Path., (London), FTWAS, Visiting Professor of Eminence, Translational Health Science and Technology Institute, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2674 1501, Res. (0172) 268 7172, Mobile: 98115 04314, email: nkganguly@nii.ac.in; gangulynk41@yahoo.co.in, sp. microbiology; immunology; biotechnology; public health.
- 2014 **Garg,** Naveen, b. 1971, Ph.D. (IIT, Delhi), Department of Computer Science and Engineering, Indian Institute of Technology, Hauz Khas, New Delhi 110 016, Tel. Off. (011) 2659 1296, Res. (011) 2659 6941, Mobile: 97114 05176, Fax (011) 2658 1060, email: naveen@cse.iitd.ac.in, URL: http://www/cse.iitd.ac.in/~naveen, sp. approximation algorithms; combinatorial optimization; graph theory & algorithms.

- 1985 **Gaur,** Vinod Kumar, b. 1936, Ph.D. (London), FNA, FNASc, FTWAS, 101, Windsor Court, 17, Millers Road, Bengaluru 500 046, Tel. (080) 2343 7410, email: gaur@cmmacs.ernet.in, sp. seismotectonics; geophysical inversion; earth system sciences. Council Service: 1992–97; Editor of Publications: 1995–97.
- Gavai, Rajiv Vasantrao, b. 1954, Ph.D. (Bombay), FNA, Senior Professor and Chair, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2430, Res. (022) 2280 4585, Fax (022) 2280 4610–1, email: gavai@tifr.res.in, URL: http://theory.tifr.res.in/~gavai, sp. high energy physics; quantum field theory; lattice field theories; quark-gluon plasma; relativistic heavy ion collisions & early universe.
- 1973 **George,** Manapurathu Verghese, b. 1928, Ph.D. (Agra), FNA, FTWAS, JNCASR Honorary Professor, Photosciences & Photonics Division, CSIR National Institute for Interdisciplinary Science & Technology, Thiruvananthapuram 695 019, Tel. Off. (0471) 249 0392, Res. (0471) 243 6452, Fax (0471) 249 0186, email: mvgeorge@rediffmail.com, sp. organic photochemistry; laser chemistry. **Council Service:** 1977–79.
- 2008 **George Thomas,** Kakkudiyil, b. 1961, Ph.D. (Kerala), FNA, Dean (Academics) & School of Chemistry, Indian Institute of Science Education and Research, CET Campus, Thiruvananthapuram 695 016, Tel. Off. (0471) 259 7425, Res. (0471) 254 2245, Mobile: 98473 56057, Fax (0471) 259 7442, email: kgt@iisertvm.ac.in, sp. photochemistry & photophysics; nanostructured materials; photoresponsive materials.
- 1976 Gharda, Keki Hormusji, b. 1929, Ph.D. (Michigan), Chairman and Managing Director, Gharda Chemicals Limited, Gharda House, 5th Floor (next to ELCO Shopping Centre), 48, Hill Road, Bandra West, Mumbai 400 050, Tel. Off. (022) 3306 5638, Fax (022) 3306 5699, email: kgharda@gharda.com, sp. process design of organic chemical plants.
- 2014 **Ghate,** Eknath, b. 1969, Ph.D. (UC, Los Angeles), School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2663, Res. (022) 2280 4562, Mobile: 98201 94361, Fax (022) 2280 4610, email: eghate@math.tifr.res.in, URL: www.math.tifr.res.in/~eghate, sp. number theory; automorphic forms; Galois representations; arithmetic geometry.

- **Ghosh,** Amit, b. 1944, Ph.D. (Calcutta), D.Sc.(h.c.) FNA, FNASc, INSA Senior Scientist, National Institute of Cholera & Enteric Diseases, JICA Building, P-33, CIT Scheme XM, Beliaghata, Kolkata 700 010, Tel. Off. (033) 2353 7470, Res. (033) 2441 7744, Mobile: 94336 92858, Fax (033) 2370 5066, email: amitghosh24@ yahoo.com, sp. molecular biology of *V. cholerae*.
- **Ghosh,** Amitabha, b. 1941, Ph.D. (Calcutta), D.Sc. (h.c.), FNA, FNASc, FNAE, NASI Senior Scientist, Indian Institute of Engineering Science & Technology, Shibpur, P.O. Botanic Garden, Howrah 711 103, Tel. Off. (033) 2668 0521/441, Res. (033) 2668 2424, Fax (033) 2668 2916, email: amitabha@iitk.ac.in; amitabhaiitk@gmail.com, sp. manufacturing science; machine dynamics & mechanisms; robotics; classical mechanics.
- **Ghosh,** Arindam, b. 1969, Ph.D. (IISc), FNASc, Associate Professor, Department of Physics, Indian Institute of Science, Bangalore 560 012, Tel. Off. (080) 2293 3288, Res. (080) 6568 4779, Mobile: 98800 64200, Fax (080) 2360 2602, email: arindam@physics.iisc.ernet.in, URL: www.physics.iisc.ernet.in/~arindam/, sp. experimental condensed matter physics; semiconductor physics; nanodevice.
- Ghosh, Aswini, b. 1953, Ph.D. (Jadavpur), FNA, Senior Professor, Department of Solid State Physics, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1314, Res. (033) 2425 8642, Mobile: 90073 57514, Fax (033) 2473 2805, email: sspag@iacs.res.in; aswghosh@gmail.com, URL: www.iacs.res.in/ssp/sspag/, sp. condensed matter & materials physics; disorder, polymer & nanomaterials; broadband dielectric spectroscopy & scaling.
- **Ghosh,** Balaram, b. 1955, Ph.D. (Calcutta), FNA, FNASc, JC Bose National Fellow, Distinguished Professor (AcSIR) & Head, Genomics & Molecular Medicine, CSIR Institute of Genomics & Integrative Biology, Mall Road, Delhi 110 007, Tel. Off. (011) 2766 2580, Res. (011) 2786 0108, Mobile: 98713 86414, Fax (011) 2766 4771, email: bghosh@igib.res.in, sp. immunology; genomics; gene regulation.
- **Ghosh,** Hirendra Nath, b. 1966, Ph.D. (Mumbai), FNASc, Radiation and Photochemistry Division, Bhabha Atomic Research Centre, Mumbai 400 085, Tel. Off. (022) 2559 0300, Res. (022) 2550 7917, Mobile: 99201 65111, Fax (022) 2550 5151, email: hnghosh@barc.gov.in; hnghosh2004@yahoo.com, sp. radiation & photochemistry; quantum dot & nanomaterials; ultrafast spectroscopy in condense phase.

- **Ghosh,** Jayanta Kumar, b. 1937, Ph.D. (Calcutta), FNA, FNASc, Professor-Emeritus, Indian Statistical Institute, 203, B.T. Road, Kolkata 700 108, Tel. Off. (033) 2575 3401, Res. (033) 2486 1681, email: jayanta@isical.ac.in; jayantag1@gmail.com, sp. Bayesian mathematical statistics.
- **Ghosh,** Mrinal Kanti, b. 1956, Ph.D. (IISc), FNASc, Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3210, Res. (080) 2331 1380, Fax (080) 2360 0683, email: mkg@math.iisc.ernet.in, sp. stochastic control; stochastic differential games; stochastic finance.
- **Ghosh,** Pushpito Kumar, b. 1954, Ph.D. (Princeton), Emeritus Professor, CSIR Central Salt & Marine Chemicals Research Institute, Bhavnagar; Res. A-604, Punit Park, Plot No. 182/C, Sector 17, Merul, Navi Mumbai 400 706, Tel. (022) 2770 1153, Mobile: 94267 31115, email: pushpitokghosh@gmail.com, sp. process research; water purification; renewable energy; R&D management.
- **Ghosh,** Subir Kumar, b. 1953, Ph.D. (Bombay), School of Computer Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2546, Res. (022) 2280 4563, Mobile: 98690 43223, Fax (022) 2280 4610, email: ghosh@tifr.res.in, URL: www.tcs.tifr.res.in/~ghosh/, sp. computational geometry & applications; graph algorithms; robot motion planning; geometric graph theory.
- **Ghosh,** Subrata, b. 1950, Ph.D. (Calcutta), FNA, JC Bose National Fellow, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1402, Res. (033) 2425 9763; (033) 6450 2315, Mobile: 98304 50170, Fax (033) 2473 2805, email: ocsg@iacs.res.in; ocsg2004@yahoo.co.in, sp. cycloaddition reactions; total synthesis of natural products.
- Ghosh, Swapan Kumar, b. 1949, Ph.D. (IIT, Bombay), FNA, FNASc, FTWAS, Theoretical Chemistry Section, Chemistry Group, Bhabha Atomic Research Centre, Trombay, Mumbai 400 085, Tel. Off. (022) 2559 5092, Res. (022) 2754 9018, Mobile: 92229 89108, Fax (022) 2550 5151, email: skghosh@barc.gov.in; swapankghosh@gmail.com, sp. theoretical chemistry; computational materials science; soft condensed matter physics.

- 2006 **Ghosh,** Swarna Kanti, b. 1955, Ph.D. (Bombay), FNASc, Senior Professor and Centre Director, National Centre for Radio Astrophysics, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2569 6105; (020) 2571 9000, Res. (020) 2569 1632, Mobile: 95455 14645, Fax (020) 2569 7257, email: swarna@ncra.tifr.res.in, sp. infrared astronomy; interstellar medium; astronomical instrumentation.
- Godbole, Rohini Madhusudan, b. 1952, Ph.D. (SUNY, Stony Brook), D.Litt. (SNDTWU), FNA, FNASc, FTWAS, JC Bose National Fellow, Centre for High Energy Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2845; (080) 2360 7798, Res. (080) 2360 8357, Mobile: 94481 18357, Fax (080) 2360 0683, email:rohini@cts.iisc.ernet.in; godbolerm@gmail.com, sp. elementary particle physics; field theory; phenomenology.
- 1994 **Godwal,** Budhiram Kulanand, b. 1946, Ph.D. (Bombay), FNASc, Res. 28, Creekview Co-operative Housing Society, Plot No. 33, Sector 9A, Vashi, Navi Mumbai 400 703, Tel. (022) 2780 1211, email: bkgodwal@yahoo.com, sp. high pressure physics; electron states; dense plasma physics.
- 1992 **Goel,** Prem Shanker, b. 1947, Ph.D. (Bangalore), FNAE, FNASc, FNA, FTWAS, Prof. MGK Menon DRDO Chair, Research Centre Imarat (RCI), Vignyana Kancha P.O., Hyderabad 500 069, Tel. Off. (040) 2430 6316, Res. (040) 2430 6395, Mobile: 73826 18774, email: dr.psgoel@gmail.com; ps.goel@rcilab.in sp. satellite control systems; space technology; earth systems.
- 2007 Gokhale, Rajesh Sudhir, b. 1967, Ph.D. (IISc), FNA, FNASc, Director, CSIR Institute of Genomics & Integrative Biology, Delhi University Campus, Mall Road, Delhi 110 007, Tel. Off. (011) 2766 2407; (011) 2766 7298, Res. (011) 2674 1198, Fax (011) 2766 7471; (011) 2987 9111, email: rsg@igib.res.in, sp. chemical biology; mycobacterium tuberculosis, small molecule metabolism; skin biology.
- 2009 **Gopakumar,** Rajesh, b. 1967, Ph.D. (Princeton), FNA, FNASc, Harish-Chandra Research Institute, Chhatnag Road, Jhusi, Allahabad 211 019, Tel. Off. (0532) 227 4370, Res. (0532) 256 7732, Fax (0532) 256 7748, email: gopakumr@hri.res.in, sp. theoretical physics; primarily quantum field theory; string theory.

- **Gopal,** Balasubramanian, b. 1970, Ph.D. (IISc), FNASc, Associate Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3219, Res. (080) 2360 2838, Mobile: 98804 50577, Fax (080) 2360 0535, email: bgopal@mbu.iisc.ernet.in, URL: http://mbu.iisc.ernet.in/~bggrp/, sp. structural biology; molecular microbiology; molecular biophysics.
- **Gopal Krishna,** b. 1948, Ph.D. (Bombay), FNA, FNASc, NASI Platinum Jubilee Senior Scientist, Centre for Excellence in Basic Sciences, University of Mumbai, Kalina Campus, Mumbai 400 098, Tel. Off. (022) 2652 4983, Mobile: 98504 15719, email: gopaltani@gmail.com, sp. astronomy; active galaxies; observational cosmology.
- **Gopalakrishnan,** Jagannatha, b. 1944, Ph.D. (IISc), FNA, FNASc, Professor Emeritus, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2537, Res. (080) 2334 5163, Fax (080) 2360 1310, email: gopal@sscu.iisc.ernet.in, sp. solid state chemistry; synthesis & structure; chemistry of oxide materials.
- **Gopalakrishnan,** Srinivasan, b. 1960, Ph.D. (Purdue), FNAE, Department of Aerospace Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3019, Res. (080) 2360 4551, Fax (080) 2360 0134, Mobile: 99805 42142, email: krishnan@aero.iisc.ernet.in, URL: http://www.aero.iisc.ernet.in/users/gopalkrishnan, sp. wave propagation; structural health monitoring; computational mechanics.
- **Gopalan,** Coluthur, b. 1918, MD (Madras), Ph.D. & D.Sc. (London), D.Sc. (h.c.), FRCP (Edinburgh & London), FNA, FAMS, FRS, Res. 39 (New No. 70), Landons Road, Kilpauk, Chennai 600 010, Tel. (044) 4285 8842, email: malini1seshadri@gmail.com, sp. nutrition; medical research. **Council Service**: 1968–70, 1977–79.
- **Gopalan,** Kunchithapadam, b. 1938, Ph.D. (IISc), FNA, FNASc, INSA Honorary Scientist, CSIR National Geophysical Research Institute, Uppal Road, Hyderabad 500 606, Tel. Off. (040) 2701 2441, Res. (040) 2720 4108, Fax (040) 2717 1564, email: gopalank1@rediffmail.com; kgopalan@ngri.res.in, sp. geo-& cosmo-chronology; isotope geology; mass spectrometry.

- 2011 Gopidas, Karical Raman, b. 1957, Ph.D. (IIT, Kanpur), Scientist, Photosciences and Photonics Section, Chemical Sciences & Technology Division, CSIR National Institute for Interdisciplinary Science & Technology, Thiruvananthapuram 695 019, Tel. Off. (0471) 251 5390, Res. (0471) 249 0537, Mobile: 94465 20537, Fax (0471) 249 1712, email: gopidaskr@rediffmail.com, sp. photochemistry; photoinduced electron transfer; supramolecular chemistry.
- 2011 **Gopinath,** Chinnakonda Subramanian, b. 1964, Ph.D. (IIT, Madras), Scientist, Catalysis Division and Centre of Excellence on Surface Science, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2043, Res. (020) 2589 8875, Mobile: 94220 31060, Fax (020) 2590 2633, email: cs.gopinath@ncl.res.in, sp. surface science; heterogeneous catalysis; spectroscopy.
- 1992 **Gopinath,** Gomathy, b. 1940, MS (AIIMS), FAMS, FNASc, Res. Flat No. 1, Kanchanjunga Apartments, 122/2 Nagavarapalya, C.V. Raman Nagar P.O, Bengaluru 560 093, Tel. (080) 2524 7584, Mobile: 98453 38134, Fax (080) 2524 7817, email: gomathy.gopinath@gmail.com; gomathy.g@hotmail.com, sp. developmental neurobiology; environment & neural plasticity; neural transplantation.
- Gopinathan, Karumathil Puthanveetil, b. 1939, Ph.D. (IISc), FNA, FNASc, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru; Res. Abhiman, 369, 11th Cross, II Block, R.T. Nagar, Bengaluru 560 032, Tel. Off. (080) 2360 0090, Res. (080) 2333 3861, Mobile: 97314 40030, Fax (080) 2360 2697, email: kpg@mcbl.iisc.ernet.in, sp. molecular biology; recombinant DNA & genetic engineering; molecular virology; biotechnology & developmental biology.
- 1988 **Gopinathan,** Melethil Sankaran, b. 1942, Ph.D. (IIT, Kanpur), FNA, Indian Institute of Science Education & Research, CET Campus, Thiruvananthapuram 695 016, Tel. Off. (0471) 259 7428, Res. (0471) 236 5743, Mobile: 98952 70289, email: msgopinathan@ gmail.com, sp. quantum chemistry; nonlinear dynamics in chemistry & biology.
- 1997 Gore, Anil Purushottam, b. 1947, Ph.D. (Kentucky), Res. Bakul, 40, Empress Garden Society, Sopan Baug, Pune 411 001, Mobile: 94235 33339, email: goreanil@gmail.com; gore\_anil@yahoo.com, sp. non-parametric inference & statistical ecology; analysis of clinical trials.

- **Goswami,** Bhupendra Nath, b. 1950, Ph.D. (Gujarat), FNA, FNASc, FTWAS, Pisharoty Professor, Indian Institute of Science Education & Research, Dr Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 8267, Mobile: 98602 01144, email: goswami@iiserpune.ac.in, URL: http://www.tropmet.res.in/~bng/index.html, sp. tropical meteorology; monsoon dynamics; predictability of weather & climate; air-sea interactions. **Council Service:** 2010–12.
- **Goswami,** Debashish, b. 1972, Ph.D. (ISI, Delhi), Statistics and Mathematics Unit, Indian Statistical Institute, 203, B.T. Road, Kolkata 700 108, Tel. Off. (033) 2575 3420, Res. (033) 2381 5643, Mobile: 98364 89980, Fax (033) 2577 3071, email: goswamid@isical.ac.in; debashish\_goswami@yahoo.co.in, sp. noncommutative geometry; quantum groups; operator algebras.
- **Goswami,** Jitendra Nath, b. 1950, Ph.D. (Gujarat), FNA, FNASc, FTWAS, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4855, Res. (079) 2630 1527, Fax (079) 2630 0374, email: goswami@prl.res.in, URL: www.prl.res.in, sp. solar system studies, planetary exploration; pre-solar (stellar) processes; geochronology. **Council Service**: 2004–09.
- 2008 Goswami, Ravinder, b. 1963, MD (Maulana Azad), D.M. (AIIMS), FNASc, FAMS, Department of Endocrinology & Metabolism, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2659 4272, Res. (011) 2658 9837, Mobile: 98181 30879, Fax (011) 2658 8641, email: gosravinder@hotmail.com, sp. autoimmune endocrine disorders; sporadic idiopathic hypoparathyroidism; metabolic bone disorders including Vitamin D deficiency in India.
- **Goswami,** Sreebrata, b. 1956, Ph.D. (Jadavpur), FNA, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1356, Res. (033) 2541 6361, Fax (033) 2473 2805, email: icsg@iacs.res.in, sp. inorganic chemistry; chemical reactions with metal-ligand co-operation; functional materials.
- **Govil,** Girjesh, b. 1940, Ph.D. (Bombay), FNA, FNASc, FTWAS, INSA Golden Jubilee Research Professor, Department of Chemical Sciences, TIFR, Mumbai; Res. 302, Vigyanshila, Juhu-Versova Link Road, 7, Bungalows, Mumbai 400 061, Tel. Off. (022) 2278 2371, Res. (022) 2635 1251, Mobile: 98675 74613, Fax (022) 2280 4610, email: govil@tifr.res.in, sp. molecular biophysics.

- 2010 **Govindarajan,** Rama, b. 1962, Ph.D. (IISc), FNASc, TIFR Centre for Interdisciplinary Sciences, 21, Brundavan Colony, Narsingi, Hyderabad 500 075 (on lien from JNCASR, Bengaluru), Tel. Off. (040) 2419 5009, Mobile: 81066 71309, email: rama@tifrh.res.in, URL: http://www.tifrh.res.in/tcis, sp. fluid mechanics.
- 1992 **Gowrishankar,** Jayaraman, b. 1956, Ph.D. (Melbourne), FNA, FNASc, Director, Centre for DNA Fingerprinting & Diagnostics, Building 7, Gruhakalpa, 5-4-399/B, Nampally, Hyderabad 500 001, Tel. Off. (040) 2474 9445; (040) 2474 9446, Res. (040) 2352 3959; (040) 6576 1729, Fax (040) 2474 9448, email: director@cdfd.org.in, sp. microbial & molecular genetics.
- Grover, Anil, b. 1958, Ph.D. (IARI), FNA, FNASc, FNAAS, Department of Plant Molecular Biology, University of Delhi South Campus, Benito Juarez Road, New Delhi 110 021, Tel. Off. (011) 2411 7693, Res. (011) 2599 1887, Mobile: 98716 18167, Fax (011) 2411 5097, email: anil.anilgrover@gmail.com; agrover@south.du.ac.in, URL: http://www.dpmb.ac.in/index.php?page=anil-grover, sp. plant abiotic stress responses; plant biotechnology & molecular biology; crop science.
- 1997 **Grover,** Arun Kumar, b. 1951, Ph.D. (TIFR), FNASc, Vice Chancellor, Panjab University, Chandigarh 160 014, Tel. Off. (0172) 254 1945, Res. (0172) 254 1428, Fax (0172) 254 1022, email: arunkgrover@gmail.com; vc@pu.ac.in, sp. magnetism & superconductivity; zero-magnetization systems and applications in spintronics; vortex state studies in superconductors; strongly correlated systems.
- Gupta, Alok Krishna, b. 1942, Ph.D. (Pittsburgh), FNA, FNASc, AEC-Raja Ramanna Fellow, Emeritus Professor, National Centre of Experimental Mineralogy & Petrology, University of Allahabad, 14, Chathum Lines, Allahabad 211 002, Tel. Off. 89348 26301, Res. (0532) 254 0549, Mobile: 86013 50902, email: alok.krishna.gupta@gmail.com, URL: www.alokkrishnagupta.com, sp. experimental petrology; mineralogy; geochemistry; thermodynamics.
- 2008 **Gupta,** Anil Kumar, b. 1960, Ph.D. (Banaras), FNASc, FNA, FTWAS, Director, Wadia Institute of Himalayan Geology, 33, General Mahadeo Singh Road, Dehra Dun 248 001, Tel. Off. (0135) 252 5101; (0135) 262 7942, Res. (0135) 252 5622, Mobile: 81266 61820, Fax (0135) 262 5212, email: anilg@wihg.res.in; director@wihg.res.in, sp. paleomonsoon; paleoclimatology; paleoceanography.

- Gupta, Chhitar Mal, b. 1944, Ph.D. (Agra), FNA, FNASc, FAMS, FTWAS, Distinguished Professor and Infosys Chair, Room No. GF-18, Institute of Bioinformatics and Applied Biotechnology, Biotech Park, Electronics City, Phase I, Bengaluru 560 100, Tel. Off. (080) 2852 8900-2/109, Res. (080) 4090 3534, email: guptacm@ibab.ac.in; cm44gupta@gmail.com, sp. membrane biology; bio-organic chemistry; molecular biophysics & molecular cell biology. Council Service: 1998–2000.
- 1989 **Gupta,** Laxmi Chand, b. 1938, Ph.D. (Bombay), FNA, FNASc, FTWAS, Res. No. 403, Vigyanshila Co-operative Housing Society, Juhu-Versova Link Road, Andheri West, Mumbai 400 061, Tel. (022) 2631 4555, email: lcgupta@tifr.res.in; lcgupta38@yahoo.com, sp. superconductivity & magnetism; quaternary borocarbide superconductors; NMR/NQR/Mu-SR; valence fluctuations and heavy fermion phenomena.
- 2007 Gupta, Pradeep Kumar, b. 1954, Ph.D. (Heriot Watt), FNASc, Senior Professor, Homi Bhabha National Institute, Mumbai; Associate Director, Raja Ramanna Centre for Advanced Technology, Indore 452 013, Tel. Off. (0731) 248 8432, Res. (0731) 232 0325, Fax (0731) 248 8425, email: pkgupta@rrcat.gov.in, sp. lasers; biomedical applications of lasers; nonlinear optics, laser materials.
- 1989 **Gupta,** Pushpendra Kumar, b. 1936, Ph.D. (Manitoba), FNA, FNASc, FNAAS, Honorary Emeritus Professor & INSA Senior Scientist, Department of Genetics & Plant Breeding, CCS University, Meerut 250 004, Tel. Off. (0121) 276 8195, Res. (0121) 276 2505, Mobile: 94116 19105, email: pkgupta36@gmail.com, sp. cytogenetics; genetics & plant breeding; crop biotechnology.
- **Gupta,** Santosh Kumar, b. 1946, Ph.D. (Pennsylvania), FNASc, FNAE, Distinguished Professor, Department of Chemical Engineering, University of Petroleum and Energy Studies, Energy Acres, P.O. Bidholi (via Prem Nagar), Dehradun 248 007, Tel. Off. (0135) 277 6201/6091, Mobile: 95542 72320, Fax (0135) 277 6090, email: skgupta@ddn.upes.ac.in; skgupta@iitk.ac.in, URL: http://www.iitk.ac.in/che/skg.htm, sp. polymer engineering & science; bio-mimetic adaptations of multi-objective evolutionary algorithms; experimental on-line optimal control.
- Gupta, Satish Kumar, b. 1953, Ph.D. (AIIMS), FNA, FNASc, FAMS, Deputy Director & Chief, Reproductive Cell Biology Laboratory, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2674 1249, Res. (011) 2670 3520, Mobile: 98109 66357, Fax (011) 2674 2125, email: skgupta@nii.ac.in; sp. reproductive immunology; vaccines; antibody engineering.

- Qupta, Sourendu, b. 1959, Ph.D. (Bombay), FNA, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2245, Res. (022) 2278 3245, Fax (022) 2278 2777, email: sgupta@theory.tifr.res.in; sourendu@tifr.res.in, sp. particle physics; lattice field theory.
- 2008 **Gupta,** Yashwant, b. 1962, Ph.D. (UC, San Diego), FNASc, Dean (GMRT Observatory) and Senior Professor, National Centre for Radio Astrophysics, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2571 9000; (020) 2571 9242, Res. (020) 2571 9342, Mobile: 98810 61930, Fax (020) 2569 7257, email: ygupta@ncra.tifr.res.in, sp. astronomy & astrophysics; radio astronomy instrumentation; signal processing.
- 1987 **Guptasarma,** Dharmajit, b. 1932, M.Sc. (Calcutta), FNA, Res. 203, Kakatiya Apartments, Street No. 2, Habshiguda, Hyderabad 500 007, Tel. (040) 2715 2062, Mobile: 94412 70692, Fax (040) 2717 1564, email: dguptasarma@gmail.com, sp. radiophysics & electronics; exploration geophysics.
- Gurjar, Mukund Keshao, b. 1952, Ph.D. (Nagpur & London), FNASc, Director (R&D) & Chief Scientific Officer, Emcure Pharmaceuticals Limited, P2, ITBT Park, Phase II, MIDC, Hinjwadi, Pune 411 057, Tel. Off. (020) 3982 1350; (020) 3982 1300, Res. (020) 2588 7674, Mobile: 93250 00010, Fax (020) 3982 1445, email: mukund.gurjar@emcure.co.in, URL: http://www.emcure.co.in, sp. organic chemistry; carbohydrate chemistry; synthetic organic chemistry.
- 1996 **Gurtu,** Atul, b. 1946, Ph.D. (Panjab), Res. B-303, Vigyanshila, Juhu-Versova Link Road, Seven Bungalows, Andheri (W), Mumbai 400 061, Tel. (022) 2631 1621, Mobile: 96198 47035, email: atul.gurtu@gmail.com, sp. experimental high energy physics.
- Guru Row, Tayur Narasingarao, b. 1951, Ph.D. (IISc), FNA, FRSC, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2796, Res. (080) 2652 6423, Mobile: 98805 09225, Fax (080) 2360 1310, email: ssctng@sscu.iisc.ernet.in; gururow@gmail.com, sp. chemical crystallography; charge density analysis; functional materials from hydrated minerals; polymorphism & drug design.

- 2010 Haider, Syed Aftab, b. 1958, Ph.D. (Banaras), FNA, FNASc, Senior Professor, Space & Atmospheric Science Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4555, Res. (079) 2682 5302, Mobile: 96623 27992, Fax (079) 2631 4659, email: haider@prl.res.in, URL: http://www.prl.res.in/~haider, sp. planetary atmospheres; ionosphere of Mars; magnetosphere of Mars.
- 1982 Hans-Gill, Rajinder Jeet, b. 1943, Ph.D. (Ohio), FNA, FNASc, FTWAS, Emeritus Professor, Department of Mathematics, Panjab University, Chandigarh 160 014, Tel. Off. & Fax (0172) 254 1132; (0172) 253 4512, Res. (0172) 262 4837, Mobile: 98153 45850, email: hansgill@pu.ac.in; hansgillrj@yahoo.co.in, sp. number theory; geometry of numbers; discrete geometry.
- 1972 Hariharan, Parameswaran, b. 1926, Ph.D. (Kerala), D.Sc. (h.c., Sydney), FNA, Res. 608, Baron Dekalb Road, Wayne, PA 19087, USA, Tel. (+1-610) 341 0389, email: hariharan\_optics@hotmail.com, sp. optics.
- 2011 Haritsa, Jayant Ramaswamy, b. 1964, Ph.D. (Wisconsin), FNAE, FNASc, FIEEE, Senior Professor, Supercomputer Education and Research Centre, Indian Institute of Science, Bengaluru 560 012, Tel.Off. (080) 2293 2793, Res. (080) 2657 8609, Mobile: 94490 15894, Fax(080) 2360 2648, email: jharitsa@gmail.com, sp. database systems.
- Harjit Singh, b. 1938, Ph.D. (Panjab), FNA, FNASc, Emeritus 1988 Professor, Department of Chemistry, Guru Nanak Dev University, Amritsar 143 005, Tel. Off. (0183) 225 8802-09/3194, Mobile: 94656 70668, Fax (0183) 225 8820, email: harjit\_gndu@yahoo.co.in, sp. organic synthesis & heterocycles.
- 2006 Hasan, Gaiti, b. 1956, Ph.D. (Cambridge), FNA, Senior Professor, National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6140, Res. (080) 2361 3640, Fax (080) 2363 6462, email: gaiti@ncbs.res.in, URL: www.ncbs.res.in/gaiti/groups\_gaiti.htm, sp. molecular genetics; drosophila; calcium signalling in neurons; inositol triphosphate receptor; transcriptomics; spino-cerebellar ataxia; neurodegeneration. 330

- Hasnain, Seyed Ehtesham, b. 1954, Ph.D. (JNU), D.Sc. (h.c.), D.Med.Sc. (h.c.), FNA, FNASc, FTWAS, School of Biological Sciences, Indian Institute of Technology, Hauz Khas, New Delhi 110 016, Tel. Off. and Fax (011) 2658 1481, Res. (011) 2658 1377, email: sehiitd@gmail.com, URL: http://www.seyedehasnain.org, sp. functional biology; molecular pathogenesis & dissemination dynamics of human pathogens including; *M. tuberculosis*.
   Council Service: 2004–06.
- Hegde, Manjanath Subraya, b. 1945, Ph.D. (IIT, Kanpur), CSIR Emeritus Scientist, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2614, Res. (080) 2341 4573, Mobile: 94481 91880, Fax (080) 2360 1310, email: mshegde@sscu.iisc.ernet.in, sp. X-ray photoelectron spectroscopy; solid state chemistry; nanomaterials; automative exhaust catalysis.
- Hosur, Ramakrishna Vijayacharya, b. 1953, Ph.D. (Bombay), FNA, FNASc, FTWAS, Director, UM-DAE Centre for Excellence in Basic Sciences, Health Centre Building, University of Mumbai, Kalina Campus, Santa Cruz East, Mumbai 400 098, Tel. Off. (022) 2652 4983, Fax (022) 2652 4982; Senior Professor, Department of Chemical Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2488, Res. (022) 2280 4635, Mobile: 99870 51556, Fax (022) 2280 4610–1, email: hosur@tifr.res.in; hosur53@gmail.com, URL: www.tifr.res.in/~hosur, sp. structural biology; NMR spectroscopy; protein folding.
- IIa, Hiriyakkanavar, b. 1944, Ph.D. (IIT, Kanpur), FNA, INSA Senior Scientist & Honorary Professor, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru; Res. Apt. 002, Block VIII, Heritage Estate, Yelahanka, Bengaluru 560 064, Tel. Off. (080) 2208 2714, Res. (080) 2366 4357, Mobile: 99019 96421, email: hila@jncasr. ac.in; sp. synthetic organic chemistry; heterocyclic chemistry; medicinal chemistry.
- 1988 Indira Nath, b. 1938, MD (AIIMS), FRC Path., D.Sc. (h.c.), FNA, FNASc, FTWAS, FAMS, Res. 707, Sarvapriya Apartments, Sarvapriya Vihar, New Delhi 110 016, Tel. (011) 2651 7707, Mobile: 97171 04448, email: indiranath@gmail.com, sp. immunology; leprosy & pathology. Council Service: 1992–94, 1998–2006; Vice-President: 2001–2003.

- 2010 Indrayan, Abhaya, b. 1945, Ph.D. (Ohio State), FAMS, Res. A037, Telecom City, B9/6, Sector 62, Noida 201 309, Tel. (0120) 240 0396, Mobile: 98103 15030, email: a.indrayan@gmail.com, URL: http://indrayan.weebly.com, sp. biostatistics; medical statistics; medical research methodology.
- 1995 **Iqbal,** Javed, b. 1947, Ph.D. (Delhi), FNA, Chairman, Cosmic Therapeutics, 48, Villa Greens, Gandipet, Hyderabad 500 075, Tel. Off. (040) 2419 3132, Mobile: 98497 99444, email: prof. javediqbal@gmail.com; javed.iqbal@cosmictherapeutics.co.in, sp. medicinal chemistry; drug design & discovery; organometallic chemistry; catalysis.
- 1975 **Irani,** Jamshed Jiji, b. 1936, D.Met, F.Eng, Ph.D. (Sheffield), FNAE, Res. No. 7, Beldih Lake, Northern Town, Jamshedpur 831 001, email: jjirani@tata.com, sp. iron & steel making.
- lyengar, Rangachar Narayana, b. 1943, Ph.D. (IISc), FNASc, FNAE, FGSI, Director, Centre for Disaster Mitigation, Jain University, Bengaluru-Kanakapura Road, Jakkasandra Post, Bengaluru 562 112, Tel. Off. (080) 2757 7203, Res. (080) 2671 1119, Mobile: 98800 30082, Fax (080) 2757 7199, email: rn.iyengar@jainuniversity.ac.in; aareni@yahoo.com, URL: http://sites.google.com/site/cdmjainuniversity/; http://civil.iisc.ernet.in/~rni/, sp. structural dynamics; earthquake engineering; applied stochastics; rainfall studies; history of science.
- 2013 Iyer, Jaya Naganathan, b. 1970, Ph.D. (Mumbai), FNASc, Professor G, Mathematics Group, Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3306, Mobile: 86952 85166, Fax (044) 2254 1586, email: jniyer@imsc.res.in; ji\_chennai2003@yahoo.com, URL: https://sites.google.com/site/homepagejniyer/, sp. algebraic geometry.
- Jacob, Kallarackel Thomas, b. 1944, Ph.D. (London), D.Sc. (Eng.) (London), FNA, FNASc, FNAE, Emeritus Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2494, Res. (080) 2525 2765, Fax (080) 2360 0472, Mobile: 98454 79865, email: katob@materials.iisc.ernet.in, URL: http://materials.iisc.ernet.in/faculty/ktj.html, sp. thermodynamics of materials; phase equilibria; materials extraction & synthesis; solid state sensors; fuel cells and electrolyzers; high-temperature corrosion.

- 1988 **Jacob John,** Thekkekara, b. 1935, Ph.D. (Madras), FRCP (Edinburgh), FNA, FNASc, Res. 439, Civil Supplies Godown Lane, Kamalakshipuram, Vellore 632 002, Tel. (0416) 226 7364, Mobile: 78453 38188, email: tjacobjohn@yahoo.co.in, sp. infectious diseases & virology.
- Jagannathan, Naranamangalam Raghunathan, b. 1954, Ph.D. (Madras), FNASc, FAMS, FNA, Professor & Head, Department of NMR & MRI Facility, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2659 3253; (011) 2658 8533, Res. (011) 2659 4511, Mobile: 99682 92772, Fax (011) 2658 8663, email: nrjgj@yahoo.co.in; jagan1954@ hotmail.com, sp. clinical and pre-clinical cancer research using molecular imaging; magnetic resonance imaging (MRI) & in-vivo NMR spectroscopy applications in humans & animal systems; functional MR studies; metabolomics; biophysics.
- Jagannathan, Venkataraman, b. 1921, Ph.D. (Stanford), FNA, FNASc, Res. F-1, Kumar Classics, Aundh, Pune 411 007, Tel. (020) 2588 1959, email: hema1440@gmail.com, sp. biochemistry; plant tissue culture.
- Jagirdar, Balaji Rao, b. 1965, Ph.D. (Kansas State), Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2825, Res. (080) 2360 2578, Mobile: 96325 22161, Fax (080) 2360 1552, email: jagirdar@ipc.iisc.ernet.in, URL: http://ipc.iisc.ernet.in/jagirdar. html, sp. organometallic chemistry; materials chemistry; catalysis.
- Jain, Dharam Vir Singh, b. 1933, Ph.D. (USC, LA), FNA, FNASc, Professor Emeritus, Department of Chemistry, Panjab University; Res. 1529, Sector 49-B, Pushpac Enclave, Chandigarh 160 047, Tel. Off. (0172) 253 4415, Res. (0172) 263 2568, email: dvsjain@yahoo.com; dvsjain@pu.ac.in, sp. physical chemistry; theoretical chemistry.
- Jain, Hari Krishan, b. 1930, Ph.D. (Wales), FNA, FNASc, Res. 40, Surya Niketan, Indraprastha Extension, Delhi 110 092, Tel. (011) 2237 3451, email: hkj2008@gmail.com, sp. genetics; plant breeding.
- Jain, Sanjay, b. 1960, Ph.D. (TIFR), Department of Physics & Astrophysics, University of Delhi, Delhi 110 007, Tel. Off. (011) 2766 7725/1342, Res. (011) 2245 6389, Mobile: 98731 20534, Fax (011) 2766 7061, email: jain@physics.du.ac.in; jain\_physics@yahoo.co.in, URL: http://people.du.ac.in/~jain/, sp. mathematical modelling of complex systems; structure, dynamics & evolution of biological & social networks; theoretical systems biology.

- Jairajpuri, Mohammad Shamim, b. 1942, Ph.D. & D.Sc. (Aligarh), D.Litt. (h.c.), FNA, FNASc, FNAAS, FTWAS, Res. Flat No. 104, Ist Floor, Block-B, 274, Aslam Manzil, Jamia Nagar (Okhla), New Delhi 110 025, Mobile: 95409 81665, email: msjairajpuri@gmail.com, sp. nematology/helminthology/parasitology; biological diversity; plant protection & biological control.
- Jameel, Shahid, b. 1957, Ph.D. (Washington State), FNA, FNASc, Chief Executive Officer, The Wellcome Trust/DBT India Alliance, No. 8-2-684/3/K/19 Kaushik Society, Road No. 12, Banjara Hills, Hyderabad 500 034, Tel. Off. (040) 4027 4888, Res. (011) 2684 0631, Fax (040) 4018 9449, email: shahid.jameel@ wellcomedbt.org, sp. molecular biology; molecular virology.
- Jayakrishnan, Athipettah, b. 1953, Ph.D. (IIT, Chennai), Department of Biotechnology, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4129, Res. (044) 2357 6129, Mobile: 99467 92226, Fax (044) 2257 4102, email: drjk.sct@gmail.com; ajk@iitm.ac.in, URL: www.biotech.iitm.ac.in/faculty/jayak.htm, sp. polymer chemistry; biomaterials; controlled drug delivery.
- 2014 Jayananda, Mudlappa, b. 1959, Ph.D. (Bangalore), Centre for Earth and Space Sciences, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 2676, Mobile: 95607 14425, email: mjayan.geol@gmail.com, sp. solid earth geochemistry; Archean magmatism and continental growth; tectonics.
- Jayannavar, Arun Mallojirao, b. 1956, Ph.D. (IISc), FNA, FNASc, Institute of Physics, Sachivalaya Marg, Bhubaneswar 751 005, Tel. Off. (0674) 230 6424, Mobile: 99372 03925, Fax (0674) 230 0142, email: jayan@iopb.res.in, sp. condensed matter physics; stochastic processes & their applications to physical problems; classical & quantum transport problems in random media; physics of mesoscopic systems.
- Jayaram, Vikram, b. 1956, Ph.D. (Stanford), FNASc, FNAE, FNA, FACerS, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3243; (080) 2293 2263, Res. (080) 2337 5110, Fax (080) 2360 0472, email: qjayaram@materials.iisc.ernet.in, URL: http://materials.iisc.ernet.in/~qjayaram/, sp. ceramics; thin films; electron microscopy; mechanical properties.

- 2006 Jayaraman, Achuthan, b. 1957, Ph.D. (Gujarat), Director, National Atmospheric Research Laboratory, Post Box No. 123, Tirupati 517 502, Tel. Off. (08585) 27 2001, Res. (0877) 224 8099, Mobile: 98481 31468, email: jayaraman@narl.gov.in, sp. atmospheric science; aerosols; radiative transfer.
- Jayaraman, Aiyasami, b. 1926, Ph.D. (Madras), Res. No. 15906, Lahinch Circle, Odessa, Florida 33556, USA, Tel. (+1-813) 920 8061, email: aiyasami.jayaraman@gmail.com, sp. high pressure physics. Council Service: 1956–61; Treasurer: 1956–61.
- 2011 Jayaraman, Narayanaswamy, b. 1964, Ph.D. (IIT, Kanpur), Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2578, Res. (080) 2357 0147, Mobile: 94484 63637, Fax (080) 2360 0529, email: jayaraman@ orgchem.iisc.ernet.in, sp. carbohydrate chemistry; dendrimer chemistry; synthetic organic chemistry.
- Jayaraman, Ramamirtha, b. 1937, Ph.D. (Tufts), FNA, Res. RH 35, Palaami Enclave, Reserve Line, New Natham Road, Madurai 625 014, Tel. (0452) 264 2474, email: aarjay007@rediffmail.com; ramjayaraman37@yahoo.com, sp. molecular biology; molecular genetics.
- Jemmis, Eluvathingal Devassy, b. 1951, Ph.D. (Princeton), FNA, FNASc, FTWAS, Inorganic and Physical Chemistry Department, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3347-48, Res. (080) 2360 7380, Mobile: 94835 98097, Fax (080) 2360 1552; (080) 2360 0683, email: jemmis@ipc.iisc.ernet.in; jemmis@gmail.com, URL: http://ipc.iisc.ernet.in/jemmis.html, sp. theoretical & computational chemistry. Council Service: 2001–03.
- Jena, Prafulla Kumar, b. 1931, Ph.D. (Utkal), Chairman, Institute of Advance Technology & Environmental Studies; President, National Resource Development Foundation, Plot No. 80A–83A, Lewis Road, Bhubaneswar 751 002, Tel. Off. (0674) 243 0243; (0674) 243 0363, Res. (0674) 243 0363, email: prof.pkjena\_iates@ yahoo.com; iatesbbsr@gmail.com, sp. extractive metallurgy; mineral processing; environmental engineering; physical chemistry and materials processing.

- Jha, Sudhanshu Shekhar, b. 1940, Ph.D. (Stanford), FNA, FNASc, FTWAS, Res. 402 Vigyanshila, Juhu-Versova Link Road, Seven Bungalows, Andheri (W), Mumbai 400 061, Tel. (022) 2632 7413, Mobile: 98924 98234, email: ss\_jhain@hotmail.com, sp. solid state theory; quantum computing; photonics. Council Service: 1989–94; Vice-President: 1989–91.
- 2007 **Jhunjhunwala,** Ashok, b. 1953, Ph.D. (Maine), FNA, FNASc, FNAE, FIEEE, Department of Electrical Engineering, Indian Institute of Technology, Chennai 600 036, Tel. Off. & Fax (044) 2257 0120; (044) 2257 4408, Res. (044) 2257 0202, Mobile: 98400 16781, email: ashok@tenet.res.in, sp. telecommunications; computer networks; fibre optics.
- 2007 **Jog,** Chanda Jayant, b. 1954, Ph.D. (SUNY, Stony Brook), FNASc, FNA, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3285; (080) 2360 7703, Res. (080) 2334 2340, Fax (080) 2360 2602, email: cjjog@physics.iisc.ernet.in, sp. galactic dynamics; interacting & star burst galaxies; interstellar molecular clouds.
- John, Pucadyil Ittoop, b. 1941, Ph.D. (Aligarh), Consultant, Institute for Plasma Research, Bhat, Gandhinagar; Res. 7C Skyline Hillview, Kanjikuzhy, Kottayam 686 004, Tel. (0481) 257 0431, Mobile: 85890 72431, email: john.pucadyil@gmail.com, sp. plasma physics; intense particle beams; industrial applications of plasma.
- Johri, Man Mohan, b. 1940, Ph.D. (Delhi), FNA, Res. Flat No. 32, New Cosmos, Juhu-Versova Link Road, Andheri (W), Mumbai 400 053, Tel. (022) 2670 3270, Mobile: 99305 64129, email: mjohri06915@yahoo.co.in, sp. plant biochemistry; molecular biology of plants; genetic engineering.
- Joseph, George, b. 1938, Ph.D. (Bombay), FNASc, FNAE, Hon. Distinguished Professor, Space Applications Centre; Res. 12/D1, Sterling City, Bopal, Ahmedabad 380 058, Tel. Off. (079) 2691 3348, Res. (02717) 23 1535, Mobile: 99782 88287, Fax (079) 2691 5843, email: georgejoseph1938@hotmail.com, sp. electro-optics; space instrumentation; remote sensing.

- Joseph, Kayyunnapara Thomas, b. 1956, Ph.D. (New York), FNA, Centre for Applicable Mathematics, Tata Institute of Fundamental Research, PB No. 6503, Sharadanagar, Bengaluru 560 065, Tel. Off. (080) 6695 3718, Res. (080) 2349 3576, Fax (080) 6695 3799, email: ktj@math.tifrbng.res.in, sp. hyberbolic systems of conservation laws; boundary layers & parabolic partial differential equations; Burgers equation & mass distribution of large scale structures; delta shocks & Hamilton Jacobi equations.
- Joshi, Amitabh, b. 1965, Ph.D. (Washington State), FNASc, FNA, Evolutionary & Organismal Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2802–3, Mobile: 93413 54233, Fax (080) 2208 2766–7, email: ajoshi@jncasr.ac.in, URL: www.jncasr.ac.in/eobu/ajoshi/, sp. population & quantitative genetics; evolutionary genetics; population ecology.
- Joshi, Balawant Shankar, b. 1924, Ph.D. (Tech.) (Mumbai), Sc.D. (Cantab), FNA, Res. 1738, Kinsmon Cove, Marietta, Georgia 30062, USA, Mobile: (+1-706) 549 2885, email: balawant.joshi@gmail.com, sp. chemistry of natural products; ethnobotany; ayurvedic medicines.
- Joshi, Jyeshtharaj Bhalchandra, b. 1949, Ph.D. (Tech.) (Mumbai), FNA, FTWAS, Emeritus Professor, Homi Bhabha National Institute, Anushakti Nagar, Mumbai 400 094, Tel. Off. (022) 2559 7625; JC Bose National Fellow, Institute of Chemical Technology, Matunga, Mumbai 400 019, Tel. Off. (022) 3361 2106, Res. (022) 2411 5448, Mobile: 98693 48132, Fax (022) 3361 1020, email: jbjoshi@gmail.com, URL: http://www.ictmumbai.edu.in/Fac\_FacDetails.aspx?fidno=19, sp. chemical engineering; fluid mechanics; reactor design; absorption of NOx gases & solar energy.
- Joshi, Niranjan Vasudeo, b. 1951, Ph.D. (IISc), Associate Professor, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0985; (080) 2293 2635, Fax (080) 2360 1428, email: nvjoshi@ces.iisc.ernet.in, sp. statistical analysis and mathematical modelling in biology.

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- Joshipura, Anjan Sidhvantlal, b. 1950, Ph.D. (Bombay), FNA, FNASc, Senior Professor, Outstanding Scientist, Theory Group, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4453, Res. (079) 3047 1752, Fax (079) 2631 4460, email: anjan@prl.res.in, sp. theoretical high energy physics.
- Junjappa, Hiriyakkanavar, b. 1936, Ph.D. (Karnatak), FNA, INSA Senior Scientist & Research Professor, Reva Institute of Science and Management, Yelahanka, Bengaluru 560 064; Res. Flat 002, Block 8, Heritage Estate, Doddaballapur Road, Yelahanka, Bengaluru 560 064, Tel. Res. 2366 4357, Mobile: 98453 72078, email: junjappa\_123@rediffmail.com, sp. synthetic & mechanistic organic chemistry.
- Kailas, Swaminathan, b. 1949, Ph.D. (Bombay), FNA, DAE Raja Ramanna Fellow, Bhabha Atomic Research Centre, Mumbai; Senior Scientist, DAE-Centre for Excellence in Basic Sciences, Mumbai University, Vidyanagari Campus, Mumbai 400 098, Tel. Res. (022) 2551 2291, Mobile: 98692 84445, email: swaminathankailas305@gmail.com; kailas@barc.gov.in, sp. nuclear optical model; heavy ion-induced fission/fusion; accelerator-based multidisciplinary science.
- 1998 **Kakodkar,** Anil, b. 1943, B.E. (Mumbai), M.Sc. (Nottingham), D.Sc. (h.c.), FNASc, FNAE, DAE Homi Bhabha Chair Professor, Bhabha Atomic Research Centre, Mumbai 400 085; Res. Flat No. 1104, Building No. 5, Accolade Co-op. Housing Society, Hajuri Dargah Road, Behind Jeevan Chintamani Building (LIC), Thane (W), Mumbai 400 604, Tel. Off. (022) 2550 5210, Res. (022) 2582 8899, Fax (022) 2550 5110, email: kakodkaranil@gmail.com; kakodkar@barc.gov.in, URL: www.anilkakodkar.in, sp. structural mechanics; nuclear engineering.

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- 1969 **Kalyanaraman,** Subramanian, b. 1934, MS (Neuro), FRCS & Ph.D. (Edinburgh), Senior Consultant Neurosurgeon, Anuradha Clinic, Chennai; Res. 2, Central Street, Kilpauk Garden Colony, Chennai 600 010, Tel. Off. (044) 2644 2667, Res. (044) 2644 3112, Mobile: 98840 70469, email: skr@anuradhaclinic.com, sp. neurosurgery.
- 1974 **Kamal,** Aditya Kumar, b. 1927, Dr. Ing. (Paris), Res. 18, Crystal Circle, Burlington, MA 01803, USA, Tel. Off. (+1-781) 890 3330/235, Res. (+1-781) 272 6315, Fax (+1-781) 890 5189, email: akk@arcon.com, kaditya1@gmail.com, sp. air traffic control; surveillance; automation; IFF; mode S; GPS.
- 1998 **Kamra,** Adarsh Kumar, b. 1944, Ph.D. (Roorkee), FNA, INSA Honorary Scientist, Indian Institute of Tropical Meteorology, Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 4281; (020) 2590 4200, Res. (020) 2588 7270, Mobile: 97645 36103, Fax (020) 2586 5142, email: kamra@tropmet.res.in, sp. atmospheric electricity; cloud physics; aerosol physics.
- 2011 Kang, Gagandeep, b. 1962, Ph.D. (CMC, Vellore), FRC Path. (London), FNASc, Professor of Microbiology, The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore 632 004, Tel. Off. (0416) 228 2052, Res. (0416) 228 4266, Mobile: 98940 70266, Fax (0416) 228 2486, email: gkang@cmcvellore.ac.in, sp. enteric infections; vaccines.
- 1999 **Kanhere,** Dilip Govind, b. 1950, Ph.D. (IIT, Kanpur), Distinguished Professor, Department of Physics, Center for Modelling and Simulations, Pune University, Pune 411 007, Mobile: 94210 06705, email: dgkanhere@gmail.com, URL: http://physics.unipune.ac.in/~kanhere, sp. condensed matter theory; computational physics; strongly correlated systems; density functional theory.
- 1984 **Kannan,** Kazhiur Kothandapani, b. 1939, Ph.D. (IISc), FNA, Res. F-206, Redwood, Raheja Residency, III Block, Koramangala, Bengaluru 560 034, Tel. (080) 2550 5829, Mobile: 87627 80061, email: kannan\_99@yahoo.com, sp. X-ray & macromolecular crystallography; macromolecular computer graphics.

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- **Kant,** Rama, b. 1963, Ph.D. (IISc), Department of Chemistry, University of Delhi, New Delhi 110 007, Tel. Off. (011) 2766 6646/188, Mobile: 98105 77668, Fax (011) 2766 6605, email: rkant@chemistry.du.ac.in, URL: http://people.du.ac.in/~rkant, sp. theoretical chemistry; complex systems in electrochemistry and polymers; nanoelectrochemistry.
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- **Kapoor,** Shyam Sunder, b. 1938, Ph.D. (Bombay), FNA, FNASc, Res. A/3, Banganga, Govandi Station Road, Deonar, Mumbai 400 088, Tel. (022) 2550 4301, Mobile: 93235 04942, email: kapoorss2002@yahoo.co.in, sp. nuclear physics; nuclear radiation detectors; accelerator-based research, development & applications in nuclear energy.
- **Kapur,** Prakash Chand, b. 1935, Ph.D (UC, Berkeley), FNAE, Foreign Assoc. US Natl Acad. Eng., Emeritus Professor, IIT(K); Res. R-485, New Rajinder Nagar, New Delhi 110 060, Tel. (011) 2874 2645, Mobile: 98108 16383, email: pck@vsnl.com; pckapur@gmail.com, sp. mineral processing; particulate science & technology; mathematical modelling & waste management.
- **Karandikar,** Rajeeva Laxman, b. 1956, Ph.D. (ISI, Calcutta), FNA, Director, Chennai Mathematical Institute, H1 SIPCOT IT Park, Siruseri, Kelambakkam, Chennai 603 103, Tel. Off. (044) 6748 0906; (044) 3298 3441, Mobile: 81448 13296, Fax (044) 2747 0225, email: rkarandikar@gmail.com; rlk@cmi.ac.in, sp. stochastic calculus; stochastic finance; stochastic filtering theory; Markov processes; Monte Carlo techniques; psephology.

- 2008 **Karanth,** Ullas Kota, b. 1948, Ph.D. (Mangalore), Director, Centre for Wildlife Studies, 403, Seebo Apartments, 26-2, Aga Abbas Ali Road, Bengaluru 560 042, Tel. Off. & Res. (080) 2671 5364, Fax (080) 2671 5255, email: ukaranth@wcs.org; ukaranth@gmail.com, sp. carnivore ecology; animal population analysis; conservation biology; conservation policy.
- Kartha, Chandrasekharan Cheranellore, b. 1951, MD (AIIMS), FNASc, FIC (Path.), FAMS, FIACSc, Professor of Eminence, Disease Biology & Molecular Medicine, Rajiv Gandhi Centre for Biotechnology, Poojappura, Thiruvananthapuram 695 014, Tel. Off. (0471) 252 9448, Res. (0471) 243 4108, Mobile: 99472 64108, Fax (0471) 252 9505, email: cckartha@rgcb.res.in; cckartha@gmail.com, sp. cardiovascular pathology & cardiovascular biology; cell-based therapies. Council Service: 2007–09.
- 1990 **Kartha,** Vasudevan Bhaskaran, b. 1934, Ph.D. (Bombay), FNA, Res. 21, Udayagiri, Opp. Telecom Factory, Sion-Trombay Road, Deonar, Mumbai 400 088, Tel. (022) 2556 4908, Mobile: 92228 43690, email: sbkartha@hotmail.com; bhasikartha@gmail.com, sp. atomic, molecular & laser spectroscopy; synchrotron spectroscopy; application of lasers in medicine & biochemistry.
- 2005 **Kasbekar,** Durgadas Prabhakar, b. 1956, Ph.D. (SUNY, Stony Brook), FNA, Haldane Chair, Centre for DNA Fingerprinting and Diagnostics, Nampally, Hyderabad 500 001, Tel. Off. (040) 2474 9401, Res. (040) 2717 3903, Fax (040) 2474 9448, email: kas@cdfd.org.in, sp. neurospora and dictyostelium genetics; sterol reductases.
- 1976 Kasturi, Tirumalai Rangachar, b. 1931, D.Sc. (IISc), Ph.D. (Bombay), FNA, Res. 237, Senator Place Cincinnati, OH 45220 USA, Mobile: 51382 71015, sp. synthetic, structural & mechanistic organic chemistry; spectroscopy.
- Kasturirangan, Krishnaswamy, b. 1940, Ph.D. (Gujarat), FNA, FNASc, FNAE, FTWAS, Emeritus Professor, National Institute of Advanced Studies, IISc Campus, Bengaluru 560 012, Tel. Off. (080) 2218 5061; (080) 2361 0522, Fax (080) 2361 0492, email: k.rangan@gov.in; krangank@gmail.com, sp. high energy astronomy; satellite technology. Council Service: 1995–2006, Vice-President: 1998–2000, President: 2001–03.

- **Katoch**, Vishwa Mohan, b. 1953, MD (AIIMS), FNASc, FNA, FAMS, Secretary, Department of Health Research & Director General, Indian Council of Medical Research, Ramalingaswamy Bhavan, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2658 8204; (011) 2658 9620, Res. (011) 2649 8214, Mobile: 94122 62721, Fax (011) 2658 8662, email: secydhr@icmr.org.in; dg@icmr.org.in, sp. molecular biology & functional genomics of mycobacteria; taxonomy & epidemiology of mycobacterial diseases. **Council Service**: 2010–12.
- **Kaul,** Romesh Kumar, b. 1952, Ph.D. (Delhi), FNA, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3317, Res. (044) 2445 3508, Mobile: 94449 24065, Fax (044) 2254 1586, email: kaul@imsc.res.in, sp. particle physics; quantum field theory; quantum gravity.
- **Kaul,** Sharika Nandan, b. 1949, Ph.D. (IIT, Kharagpur), FNA, JC Bose National Fellow, INSA Senior Scientist, School of Physics, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4322, Res. (040) 2301 0686, Fax (040) 2301 0227, email: kaulsp@uohyd.ernet.in; kaul.sn@gmail.com, sp. condensed matter physics; phase transitions & critical phenomena; magnetism & magnetic materials; macroscopic quantum phenomena; disordered systems & percolation; physics at nanometer length scale.
- **Kaw,** Predhiman Krishan, b. 1948, Ph.D. (IIT, Delhi), FNA, FNASc, Distinguished Scientist, Institute for Plasma Research, Bhat, Gandhinagar 382 428, Tel. Off. (079) 2396 9275, Res. (079) 2692 7572, Mobile: 98250 69415, Fax (079) 2396 9016, email: kaw@ipr.res.in; predh@yahoo.com, URL: http://www.ipr.res.in/~theory/kaw\_sir\_home\_page/kaw.htm, sp. plasma physics.
- **Kembhavi,** Ajit Keshav, b. 1950, Ph.D. (Bombay), FNASc, Director, Inter-University Centre for Astronomy & Astrophysics, Post Bag 4, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4200; (020) 2560 4100, Res. (020) 2560 4401, Mobile: 98229 79161, Fax (020) 2560 4699, email: akk@iucaa.ernet.in, sp. high energy astrophysics; active galactic nuclei; external galaxies; virtual observatory.
- **Kempanna,** Chokkappa, b. 1928, Ph.D. (Cantab), Res. No. 21, Gaddadanaganahalli, Mandibele Post, Devanahalli 562 135, Mobile: 94480 46444, email: ckempanna@yahoo.com, sp. genetics; plant breeding.

- 1986 Kenkare, Umakant Waman, b. 1927, Ph.D. (Bombay), FNA, Res. D/3, Deeplakshmi Co-operative Housing Society, Hatiskar Marg, Prabhadevi Sea Beach, Prabhadevi, Mumbai 400 025, Tel. (022) 2430 9881, sp. biochemistry; molecular biology; neurochemistry.
- 2008 **Kesavan,** Srinivasan, b. 1952, Ph.D. (Pierre et Marie Curie), FNASc, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3209; (044) 2254 3166, Res. (044) 2641 2839, Mobile: 94440 82801, Fax (044) 2254 1586, email: kesh@imsc.res.in, sp. partial differential equations; homogenization; isoperimetric inequalities.
- 1975 **Kessar,** Satinder Vir, b. 1932, Ph.D. (USC, LA), FNA, FNASc, FTWAS, Professor Emeritus, Department of Chemistry, Panjab University, Chandigarh 160 014, Tel. Off. (0172) 254 1435, Res. (0172) 274 7308, Mobile: 98786 39635, email: svkessar@pu.ac.in, sp. synthetic & mechanistic organic chemistry.
- 1996 **Khakhar,** Devang Vipin, b. 1959, Ph.D. (Massachusetts), FNA, FNAE, Director, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2572 3488; (022) 2576 7001, Res. (022) 2572 3738, Mobile: 98206 05351, Fax (022) 2572 3546, email: khakhar@iitb.ac.in; director@iitb.ac.in, URL: www.che.iitb.ac.in/ faculty/dvk.html, sp. granular flow & mixing; polymer processing. **Council Service:** 2010–12.
- 2012 Khan, Faiz Ahmed, b. 1965, Ph.D. (Hyderabad), FNASc, Professor & Head, Department of Chemistry, Indian Institute of Technology, Ordnance Factory Estate, Yeddumailaram 502 205, Tel. Off. (040) 2301 6084, Res. (040) 2301 7040, email: faiz@iith.ac.in, sp. synthetic organic chemistry; chemistry of natural products; synthetic methodologies.
- 2010 Khanduja, Sudesh Kaur, b. 1951, Ph.D. (Panjab), FNA, FNASc, Indian Institute of Science Education and Research Mohali, Sector 81, Knowledge City, Manauli P.O., SAS Nagar 140 306, Tel. Off. (0172) 224 0266, Res. (0172) 269 1297, Mobile: 98152 04096, email: skhanduja@iisermohali.ac.in, sp. algebra; valuation theory; algebraic number theory.

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- Khare, Avinash Vasant, b. 1945, Ph.D. (Calcutta), FNA, Raja Ramanna Fellow, Indian Institute of Science Education & Research, Sai Trinity Building, Garware Circle, Pashan, Pune 411 021, Tel. Off. (020) 2590 8211, Mobile: 97653 96369, Fax (020) 2586 5315, email: khare@iiserpune.ac.in, sp. high energy & elementary particle physics; supersymmetric quantum mechanics; nonlinear dynamics.
- Khurana, Jitendra Paul, b. 1954, Ph.D. (Delhi), FNA, FNASc, FNAAS, FTWAS, Head, Department of Plant Molecular Biology, University of Delhi South Campus, Benito Juarez Road, New Delhi 110 021, Tel. Off. (011) 2411 5126, Res. (011) 2411 9090, Mobile: 98113 51217, Fax (011) 2411 5270, email: khuranaj@genomeindia.org, sp. photo-perception & signal transduction in plants; structural & functional genomics; plant hormone action.
- 2010 Khurana, Paramjit, b. 1956, Ph.D. (Delhi), FNA, FNASc, FNAAS, Department of Plant Molecular Biology, University of Delhi South Campus, Benito Juarez Road, New Delhi 110 021, Tel. Off. and Fax (011) 2411 5096, Res. (011) 2411 9090, Mobile: 97110 06512, email: param@genomeindia.org, sp. plant biotechnology; plant genomics; molecular basis of plant differentiation & morphogenesis.
- 1991 **Khush,** Gurdev Singh, b. 1935, Ph.D. (UC, Davis), D.Sc. (h.c.), FNA, FRS, FNASc, Foreign Assoc. US Nat. Acad. Sci., Res. 39399, Black Hawk Place, Davis, CA 95616-7008, USA, Tel. & Fax (+1-530) 750 2440, email: gurdev@khush.org, sp. plant genetics & breeding; biotechnology.
- 1990 **Kochupillai,** Narayana Panicker, b. 1939, MD (AIIMS), FNA, FAMS, Res. Flat No. 401, ITPL Residence Complex, International Technology Park, Whitefield, Bengaluru 560 068, email: kochupillai@gmail.com, sp. internal medicine; clinical endocrinology; metabolism; diabetes; biotechnology.

- 2010 Kohli, Ravinder Kumar, b. 1953, Ph.D. (Amritsar), FNA, FNASc, FNAAS, JC Bose National Fellow, Vice-Chancellor, Central University of Punjab, Mansa Road, Bathinda 151 001, Tel. Off. (0164) 243 0586, Res. (0164) 224 1550, Mobile: 98722 01516, Fax (0164) 286 4111, email: vc@cup.ac.in; rkkohli45@gmail.com, URL: www.rkkohli.com, sp. experimental ecology; weed science; plantation forestry & urban forestry.
- 2010 **Kotha,** Sambasivarao, b. 1957, Ph.D. (Hyderabad), FNASc, JC Bose National Fellow, Pramod Chaudhari Chair Professor, Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7160, Res. (022) 2576 8160, Mobile: 98693 92696, Fax (022) 2576 7152, email: srk@chem.iitb.ac.in, URL: http://www.chem.iitb.ac.in/people/Faculty/prof/sk.html, sp. new synthetic methods; unnatural amino acids; transition metals in organic synthesis.
- Krishna, Kolluru Sree, b. 1958, Ph.D. (Andhra), FNASc, FNA, JC Bose National Fellow, Chief Scientist, Geological Oceanography Division, CSIR National Institute of Oceanography, Dona Paula 403 004, Tel. Off. (0832) 245 0384, Res. (0832) 245 2438, Mobile: 97654 94935, Fax (0832) 245 0609, email: krishna@nio.org; nio.krishna@gmail.com, URL: http://www.nio.org/index/option/com\_researcherdisplay/task/show/tid/2/sid/69/rid/855, sp. marine geology and geophysics.
- 1979 **Krishna,** Padmanabhan, b. 1938, Ph.D. (Banaras), FNA, Adviser, Rajghat Education Centre, Krishnamurti Foundation India, Rajghat Fort, Varanasi 221 001, Tel. Off. (0542) 244 0722, Res. (0542) 244 1356, Mobile: 94152 23667, email: pkrishna@pkrishna.org; pkrishna80@gmail.com, URL: www.pkrishna.org, sp. crystallography; imperfection in solids; education, science & society.
- 1989 **Krishna,** Rajamani, b. 1946, Ph.D. (Manchester), Van't Hoff Institute for Molecular Sciences, University of Amsterdam, Science Park 904, 1098 XH Amsterdam, Netherlands, Tel. Res. (+31-20) 627 0990, Fax (+31-20) 525 5604, email: r.krishna@ contact.uva.nl, URL: http://orcid.org/0000-0002-4784-8530, sp. separations using nanoporous materials.
- 2008 **Krishna Kumar,** Kanikicharla, b. 1958, Ph.D. (Pune), Qatar Meteorology Department, Doha, Qatar, Tel. Res. (020) 2587 2937, Mobile: 98500 85018, email: krishnakumar.kanikicharla@gmail.com, sp. monsoon dynamics; predictability & prediction; climate change & impacts; climate applications.

- 1993 **Krishna Murty,** Achyutuni Venkata, b. 1938, Ph.D. (IISc), Res. 8, V Main, II Cross, NTI Layout, RMV II Stage, Nagashettihalli, Bengaluru 560 094,Tel. (080) 2341 0116, email: avkrishnamurty@yahoo.co.in, sp. aerospace engineering; structural mechanics; composites; smart structures.
- 1989 **Krishna Swamy**, Kittur Subbarao, b. 1938, Ph.D. (UC, Berkeley), Res. Flat 1905, Tower C, Oberoi Springs, Opp. City Mall, Andheri Link Road, Andheri West, Mumbai 400 053, Tel. (022) 2674 1864, email: swamyks@vsnl.net, sp. astrophysics.
- 2008 **Krishnakumar,** Erumathadathil, b. 1952, Ph.D. (Gujarat), Senior Professor, Department of Nuclear & Atomic Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2502, Res. (022) 2280 4998, Mobile: 98921 03030, Fax (022) 2280 4610, email: ekkumar@tifr.res.in, URL: http://www.tifr.res.in/~ekkumar/, sp. atomic collision processes; molecular dynamics; electron controlled chemistry.
- 2000 **Krishnamoorthy,** Guruswamy, b. 1950, Ph.D. (TIFR), FNA, Senior Professor, Department of Chemical Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2301; (022) 2278 2864, Res. (022) 2280 4732, Mobile: 77380 41952, Fax (022) 2280 4610, email: gk@tifr.res.in, sp. biophysical chemistry; laser spectroscopy; protein dynamics & protein folding dynamics; dynamics in nucleic acids; correlation of macromolecular dynamics with function.
- Krishnamoorthy, Krishnaswamy, b. 1952, Ph.D. (Kerala), FNA, FNASc, Brahmaprakash Professor, Department of Space & ISRO Head Quarters, Antariksh Bhavan, New BEL Road, Bengaluru 560 231, Tel. Off. (080) 2351 2858, Mobile: 99455 30293; 94960 50095, email: krishnamoorthyspl@gmail.com; kmoorthy@isro.gov.in, sp. atmospheric aerosols; microphysics, regional radiative forcing; climate science; equatorial aeronomy; atmospheric sciences.
- Krishnamurthy, Hulikal Ramaiyengar, b. 1951, Ph.D. (Cornell), FNA, FNASc, FTWAS, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 8658; (080) 2293 3282, Res. (080) 2341 6627, Mobile: 98459 27227, Fax (080) 2360 2602, email: hrkrish@physics.iisc.ernet.in, URL: http://www.physics.iisc.ernet.in~hrkrish/, sp. theoretical condensed matter physics; quantum many-body theory; statistical physics.

- **Krishnamurthy,** Manchikanti, b. 1969, Ph.D. (TIFR), Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2685, Res. (022) 2280 4657, Mobile: 90046 80294, Fax (022) 2280 4610, email: mkrism@tifr.res.in, URL: www.tifr.res. in/~uphill, sp. atomic & molecular physics; intense laser plasma physics; optical sciences.
- **Krishnamurthy,** Setharampattu Seshaiyer, b. 1940, Ph.D. (IISc), FNA, Professor Emeritus, IPC Department, Indian Institute of Science, Bengaluru; Res. 394, 6A Cross, Tata Nagar, Bengaluru 560 092, Tel. Res. (080) 2351 6293, email: sskrish@ipc.iisc.ernet.in; sskrish60@yahoo.com, sp. main group chemistry; organometallic chemistry.
- **Krishnan,** Rangachari, b. 1935, Ph.D. (Bombay), FNA, FNASc, FNAE, Res. F-3, Parkside Manor, 162, 5th Main, Defence Colony, Bengaluru 560 038, Tel. (080) 2526 8882, Mobile: 99808 47568, email: rangachari.krishnan@gmail.com, sp. physical metallurgy & materials science.
- **Krishnan,** Sankaranarayanaiyer, b. 1934, Ph.D. (Kerala), Res. 49, II Cross, P&T Colony, R.T. Nagar, Bengaluru 560 032, Tel. (080) 2333 3139, Mobile: 99004 19481, email: skrish49@hotmail.com, sp. electronics & digital systems.
- Krishnan, Varadachari, b. 1937, Ph.D. (IISc), FNA, FTWAS, Coordinator, TWAS Regional Office for Central & South Asia; Honorary Fellow, Chinese Chemical Society; Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2759; (080) 2362 2518, Res. (080) 2341 9380, Fax (080) 2208 2766, email: vkripc@ipc.iisc.ernet.in; vkrish@jncasr.ac.in, sp. inorganic chemistry & bio-inorganic chemistry. Council Service: 1989–97; Secretary: 1989–94.
- **Krishnaswami,** Sethunathasarma, b. 1945, Ph.D. (Bombay), FNA, FNASc, FTWAS, Honorary Professor, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4305, Res. (079) 2630 2640, Fax (079) 2631 4000, email: swami@prl.res.in, sp. nuclear oceanography; low temperature geochemistry.

- 1993 **Krishnaswamy,** Kamala, b. 1940, MD (Osmania), FNA, FNASc, FAMS, FNAAS, FTWAS, Res. Sriniketan, No. 1-2-98/2, Kakateeyanagar Colony, Habsiguda, Hyderabad 500 007, Tel. (040) 2715 3248, Mobile: 98662 35238, email: sri21kk@hotmail.com; sri21kk@yahoo.com, sp. internal medicine; nutritional sciences; clinical pharmacokinetics.
- 2003 **Krupanidhi,** Saluru Baba, b. 1951, Ph.D. (Delhi), FNA, Materials Research Centre, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 1330; (080) 2293 2781, Res. (080) 2341 8550, Fax (080) 2360 7316, email: sbk@mrc.iisc.ernet.in, sp. ferroelectrics; III–V and III-nitride semiconductors; thin films; epitaxy; solid state devices; MEMS.
- Kulkarni, Bhaskar Dattatraya, b. 1949, Ph.D. (Nagpur), FNA, FNAE, Distinguished Scientist, Chemical Engineering Division, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2772; (020) 2590 2150, Mobile: 98817 29726, Fax (020) 2590 2612, email: bd.kulkarni@ncl.res.in, sp. chemical reaction engineering; mathematical modelling & simulation.
- Kulkarni, Giridhar Udapi Rao, b. 1963, Ph.D. (IISc), FNASc, Dean (Faculty Affairs) and Chemistry & Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur PO, Bengaluru 560 064, Tel. Off. (080) 2208 2814, Res. (080) 2363 2814, Mobile: 94488 25386, Fax (080) 2208 2766, email: kulkarni@jncasr.ac.in; gukulk@gmail.com, URL: http://www.jncasr.ac.in/kulkarni/, sp. nanomaterials; nanolithography and fabrication; molecular crystals and properties.
- Kulkarni, Mohan Gopalkrishna, b. 1950, Ph.D. (Bombay), FNAE, Emeritus Scientist, CSIR Unit for Research & Development of Information Products, 'Tapovan', NCL Campus, Pashan Road, Pune 411 008, Tel. Off. (020) 6900 0864, Res. (020) 2588 2189, Mobile: 94223 09762, email: mohank@urdip.res.in, sp. polymer science & engineering; intellectual property.
- 1975 **Kulkarni,** Prabhakar Vasudeo, b. 1930, Ph.D. (Pune), Res. c/o Dr Narendra P. Kulkarni, 202, Sadguru Co-op. Housing Society, Sector 19, Flat 20, Kharghar, Navi Mumbai 410 210, Tel. (022) 2774 5204, Mobile: 99670 31930, email: nanapvk@gmail.com, sp. atmospheric optics; aeronomy; infrared astronomy.

- 2004 Kulkarni, Sulabha Kashinath, b. 1949, Ph.D. (Pune), FNASc, FNA, Department of Physics, Indian Institute of Science Education & Research, Homi Bhabha Road, Pune 411 008, Tel. Off. (020) 2590 8032, Res. (020) 2544 1158, Mobile: 88884 25978, Fax (020) 2589 9790, email: s.kulkarni@iiserpune.ac.in, sp. surface physics; materials science; nanoscience.
- 2010 **Kumar,** Anurag, b. 1955, Ph.D. (Cornell), FNA, FNAE, FIEEE, FTWAS, Director, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2222; (080) 2360 0690, Res. (080) 2341 5031, Mobile: 98450 06755, Fax (080) 2360 0936, email: diroff@admin. iisc.ernet.in; anurageceiisc@gmail.com, sp. communication networks; wireless networks; stochastic modelling.
- 2004 Kumar, Gattamraju Ravindra, b. 1961, Ph.D. (IIT, Kanpur), FNA, Senior Professor, Department of Nuclear & Atomic Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2381, Res. (022) 2280 4609, Fax (022) 2280 4610–1, email: grk@tifr.res.in, sp. interaction of intense ultrashort light pulses with matter; high energy density science and nonlinear optics.
- 1975 **Kumar,** Har Darshan, b. 1934, Ph.D. (London), FNA, FNASc, Res. Mrigtrishna, B-32/32, HK 214, Saketnagar Colony, Naria, Varanasi 221 005, Tel. (0542) 231 5180, email: hdk71@yahoo.co.in; hdkumar@rediffmail.com, sp. algology; microbial biotechnology; genetics; ecology; environment.
- 2010 Kumar, Lalit, b. 1957, MD (Agra), D.M. (Madras), FAMS, Professor & Head, Department of Medical Oncology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off.(011) 2659 3405, Res. (011) 2658 8821, Mobile: 98114 46828, Fax (011) 2658 8663, email: lalitaiims@yahoo.com, sp. stem cell transplantation; multiple myeloma (haemato-oncology); gynaecologic oncology.
- Kumar, Makarla Udaya, b. 1946, Ph.D. (USSR Acad. Sci.), FNA, FNAAS, FNASc, JC Bose National Fellow, NASI Senior Scientist & Professor Emeritus, Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. & Fax (080) 2363 6713/25; (080) 2333 0153/355, Res. (080) 2347 4560, Mobile: 94483 76357, email: udayakumar\_m@ yahoo.com, sp. molecular basis of stress resistance; physiology of water use efficiency in plants; canopy photosynthesis.

- Kumar, Narendra, b. 1940, Ph.D. (IIT, Bombay), FNA, FNASc, FTWAS, Emeritus Professor, Raman Research Institute, C.V. Raman Avenue, Bengaluru 560 080, Tel. Off. (080) 2361 1016; 94808 36222, Res. (080) 2341 0549, Mobile: 94484 95421, Fax (080) 2361 0492, email: nkumar@rri.res.in, URL: www.rri.res.in/~nkumar, sp. condensed matter physics; stochastic transport processes & statistical physics; high-temperature superconductivity; localization in disordered systems. Council Service: 1995–2006; President: 1998–2000.
- 1979 **Kumar,** Rajinder, b. 1934, Ph.D. (Panjab), FNA, Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. & Fax (080) 2293 2320; (080) 2208 2786, Res. (080) 2334 6394, Mobile: 98452 50473, email: kumar@chemeng.iisc.ernet.in; kumariisc@gmail.com, sp. multiphase phenomena. **Council Service:** 2001–06; Vice-President: 2001–06.
- 2002 **Kumara Swamy,** Kalasa Chandrasekhar Jois, b. 1957, Ph.D. (IISc), FNA, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4856, Res. (040) 6457 6973, Mobile: 98497 24004, Fax (040) 2301 2460, email: kckssc@uohyd.ernet.in; kckssc@yahoo.com, sp. chemistry of main group elements; organophosphorus chemistry.
- 1999 **Kumaran,** Viswanathan, b. 1966, Ph.D. (Cornell), FNA, FNAE, Department of Chemical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3112, Res. (080) 2360 1034, Fax (080) 2360 8121, email: kumaran@chemeng.iisc.ernet.in, sp. hydrodynamic stability; dynamics of complex fluids; granular flows.
- Kundu, Anjan, b. 1953, Ph.D. (Lumumba), FNA, Senior Professor, Theory Division, Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata 700 064, Tel. Off. (033) 2337 5346/3305, Res. (033) 2358 1522, Mobile: 94330 21522, Fax (033) 2337 4637, email: anjan.kundu@saha.ac.in, URL: http://www.saha.ac.in/theory/anjan.kundu/, sp. theoretical & mathematical physics; nonlinear classical & quantum integrable systems; field models with topological charges.
- 2006 **Kundu,** Gopal Chandra, b. 1959, Ph.D. (Calcutta), FNASc, Scientist G, National Centre for Cell Science, NCCS Complex, Pune 411 007, Tel. Off. (020) 2570 8104, Res. (020) 2727 0060, Mobile: 94225 06548, Fax (020) 2569 2259, email: kundu@nccs.res.in; gopalkundu@hotmail.com, sp. tumor biology; regulation of gene expression; angiogenesis & nanomedicine.

- Kundu, Manikuntala, b. 1958, Ph.D. (Calcutta), Department of Chemistry, Bose Institute, 93/1 Acharya Prafulla Chandra Road, Kolkata 700 009, Tel. Off. (033) 2303 1153, Res. (033) 2533 3454, Mobile: 98303 31255, Fax (033) 2350 6790, email: manikuntala. kundu@gmail.com; manikuntala@vsnl.net, sp. stress response in mycobacterium tuberculosis; immunology of the host cell response to Helicobacter pylori.
- 2008 Kundu, Tapas Kumar, b. 1962, Ph.D. (IISc), FNA, FNASc, Transcription & Disease Laboratory, Molecular Biology & Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2840, Res. (080) 2362 2773, Fax (080) 2208 2766, email: tapas@jncasr.ac.in, sp. mechanisms of transcriptional regulation; epigenetics & disease; chemical biology.
- 2005 **Lahiri,** Goutam Kumar, b. 1960, Ph.D. (Jadavpur), Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7159, Res. (022) 2576 8159, Mobile: 98195 81787, Fax (022) 2572 3480, email: lahiri@chem.iitb.ac.in, sp. inorganic chemistry; organometallic chemistry; catalysis.
- 2005 **Lahiri Majumder,** Arunendra Nath, b. 1946, Ph.D. (Calcutta), D.Sc. (Calcutta), FNA, FNASc, FNAAS, DAE-Raja Ramanna Fellow, Division of Plant Biology, Bose Institute, P-1/12, CIT Scheme, VII M, Kolkata 700 054, Tel. Off. (033) 2569 3232, Res. (033) 2436 7219, Mobile: 94330 27050, Fax (033) 2334 3686, email: lahiri@jcbose.ac.in; alahirimajumder@yahoo.com, sp. plant biochemistry; molecular biology & biotechnology.
- Lakhotia, Subhash Chandra, b. 1945, Ph.D. (Calcutta), FNA, FNASc, Professor Emeritus, DAE-Raja Ramanna Fellow, Department of Zoology, Banaras Hindu University, Varanasi 221 005, Tel. Off. (0542) 236 8145; (0542) 670 1827, Res. (0542) 231 2012, Mobile: 94530 48657, Fax (0542) 236 8457, email: lakhotia@bhu.ac.in; sclakhotia@yahoo.co.in, sp. cytogenetics; gene expression; molecular biology; stress biology.
- Lakshmanan, Muthusamy, b. 1946, Ph.D. (Madras), D.Sc. (h.c., Burdwan), FNA, FNASc, FTWAS, DAE-Raja Ramanna Fellow, Professor of Eminence, Centre for Nonlinear Dynamics and Department of Physics, Bharathidasan University, Tiruchirapalli 620 024, Tel. Off. (0431) 240 7093; (0431) 240 7057, Res. (0431) 245 9386, Mobile: 99408 23079, Fax (0431) 240 7093, email: lakshman@cnld.bdu.ac.in; lakshman.cnld@gmail.com, sp. nonlinear dynamics; theoretical physics; mathematical physics. Council Service: 2010–12.

- 2001 Lal, Shyam, b. 1951, Ph.D. (Gujarat), FNA, FNASc, JC Bose National Fellow, Senior Professor, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4671, Res. (079) 2745 3120, Mobile: 94276 27076, Fax (079) 2631 4659, email: shyam@prl.res.in, sp. ozone & trace gases for atmospheric processes; environmental & climatic changes.
- 2010 Lele, Ashish Kishore, b. 1967, Ph.D. (Delaware), FNAE, Scientist, Polymer Science & Engineering Division, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2199, Res. (020) 2589 3089, Mobile: 99600 65550, Fax (020) 2590 2618, email: ak.lele@ncl.res.in, sp. polymer dynamics, rheology & processing; rheology of complex fluids; hydrogels & gelation processes.
- 1986 Lele, Shrikant, b. 1943, Ph.D. (Banaras), FNA, FNASc, FNAE, Res. 377, Mahatma Society, Kothrud, Pune 411 038, Tel. (020) 2536 0906, Mobile: 97664 33322, email: drslele@gmail.com, sp. physical metallurgy & materials science.
- 2007 **Lohia,** Anuradha, b. 1956, Ph.D. (Calcutta), Vice Chancellor, Presidency University, Kolkata 700 073, Tel. Off. (033) 2257 3770, Mobile: 98310 79838, Fax (033) 2241 2738, email: amoeba22@ gmail.com; vc@presiuniv.ac.in, sp. cell cycle of protozoan parasites; molecular genetics & genomics; regulation of gene expression. **Council Service**: 2010–12.
- 2009 Madhubala, Rentala, b. 1952, Ph.D. (Hyderabad), FNASc, FNAMS, FNA, Director, Academic Staff College and Professor, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. & Fax (011) 2674 2630, Res. (011) 2625 3934, Mobile: 98102 91801, email: madhubala@mail.jnu.ac.in; rentala@outlook.com, sp. molecular parasitology.
- Madhusudana, Nelamangala Vedavyasachar, b. 1944, Ph.D. (Mysore), FNA, Emeritus Scientist, Liquid Crystal Laboratory, Raman Research Institute, C.V. Raman Avenue, Bengaluru 560 080, Tel. Off. 94808 36199; (080) 2361 1015, Res. (080) 2333 3407, Fax (080) 2361 0492, email: nvmadhu@rri.res.in, sp. liquid crystals.
- 2014 **Madras**, Giridhar, b. 1967, Ph.D. (Texas A&M), FNA, FNAE, FNASc, Department of Chemical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2321, Res. (080) 2360 7680, Mobile: 93425 19580, Fax (080) 2293 2321, email: giridhar@chemeng.iisc.ernet.in, sp. catalysis; polymers; supercritical fluids.

- 1990 Madyastha, Kattigari Madhava, b. 1937, Ph.D. (Pune), FNASc, Res. 162, Srikrishna, V Main, IV Cross, NGEF Layout, Sanjaynagar, Bengaluru 560 094, Tel. (080) 2341 5584, email: kmm1937@yahoo.com, sp. bio-organic chemistry; xenobiotics metabolism; plant biochemistry; microbial transformations.
- 2014 **Mahadevan,** Priya, b. 1970, Ph.D. (IISc), SN Bose National Centre for Basic Sciences, JD Block, Sector 3, Salt Lake, Kolkata 700 098, Tel. Off. (033) 2335 5708, Mobile: 98307 89935, Fax (033) 2335 3477, email: priya@bose.res.in; priya.mahadevan@ gmail.com, URL: www.bose.res.in/~priya, sp. electronic structure of materials; magnetism; nanostructured materials.
- 2003 Mahadevan, Subramony, b. 1953, Ph.D. (Tufts), Department of Molecular Reproduction, Development & Genetics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2607, Res. (080) 2334 7595, Mobile: 98452 08358, Fax (080) 2360 0683, email: mahi@mrdg.iisc.ernet.in, sp. regulation of gene expression in bacteria; microbial physiology; microbial evolution.
- Mahajan, Kushal Kumar, b. 1939, Ph.D. (Banaras), FNA, INSA Honorary Scientist, NPL, New Delhi; Res. C1/121, Janakpuri, New Delhi 110 058, Tel. Off. (011) 4560 8243, Res. (011) 2553 6334, Mobile: 98100 92120, Fax (011) 4560 9310, email: kkmahajan@nplindia.org; kkmahajan@yahoo.com, sp. atmospheric & space science; ionospheres/atmospheres of earth and planets.
- 2012 **Mahan,** Mj, b. 1968, Ph.D. (UC, Berkeley), School of Mathematical Sciences, RKM Vivekananda University, Belur Math, Howrah 711 202, Tel. Off. (033) 2654 9999, Fax (033) 2654 4640, email: mahan.mj@gmail.com, sp. geometric group theory; geometric topology; hyperbolic geometry; Kaehler groups.
- 2013 **Mahapatra,** Susanta, b. 1968, Ph.D. (IIT, Kanpur), School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4826; (040) 2301 1537, Res. (040) 2301 0654, Moblie: 94403 03184, Fax (040) 2301 2460, (040) 2301 1537, email: susanta.mahapatra@uohyd.ac.in; smsc@uohyd.ernet.in, URL: http://chemistry.uohyd.ernet.in/~sm, sp. theoretical chemical dynamics; nonadiabatic chemistry.

- Maharana, Jnanadeva, b. 1945, Ph.D. (IIT, Kanpur), FNA, Raja Ramanna Fellow, Institute of Physics, Sachivalaya Marg, Bhubaneswar 751 005, Tel. Off. (0674) 230 6403, Res. (0674) 230 3444, Fax (0674) 230 0142, email: maharana@iopb.res.in, sp. string theory; field theory; quantum gravity.
- Maheshwari, Satish Chandra, b. 1933, Ph.D. (Delhi), FNA, FNASc, 251/56, Prathap Enclave, Haldighati Road, Jaipur 302 033, Mobile: 77425 77710, email: profsatishcmaheshwari@ gmail.com, sp. physiology & biochemistry of plant growth & development; plant molecular biology.
- 2010 **Maiti,** Kalobaran, b. 1967, Ph.D. (IISc), FNASc, Department of Condensed Matter Physics & Materials Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2748, Res. (022) 2280 4919, Mobile: 99691 85189, Fax (022) 2280 4610, email: kbmaiti@ tifr.res.in, URL: http://www.tifr.res.in/~kbmaiti, sp. correlated electron systems; magnetism & superconductivity; electron spectroscopy.
- 2013 **Maiti,** Souvik, b. 1971, Ph.D. (Osmania), Scientist, CSIR Institute of Genomics and Integrative Biology, Sukhdev Vihar, Mathura Road, Delhi 110 020, Tel. Off. (011) 2987 9108, Res. (0120) 248 5601, Mobile: 98111 30093, Fax (011) 2766 7471, email: souvik@igib.res.in, URL: http://www.igib.res.in/?q=SouvikMaiti, sp. bio-physical chemistry; chemical biology.
- Maitra, Uday, b. 1957, Ph.D. (Columbia), FNA, Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 1968; (080) 2293 2690, Res. (080) 2360 1774, Fax (080) 2360 0529, email: maitra@orgchem.iisc.ernet.in; maitrau@gmail.com, URL: http://orgchem.iisc.ernet.in/faculty/um, sp. supramolecular chemistry of bile acids; organo & hydrogels; soft composite materials. Council Service: 2013–; Secretary: 2013–.
- 2014 **Majumdar,** Subeer Suhash, b. 1961, Ph.D. (Nagpur), FNA, FNASc, Staff Scientist VII, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2670 3751, Res. (011) 2670 3638, Mobile: 98181 70750, Fax (011) 2674 2125, email: subeer@nii.ac.in; subeer@nii.res.in, sp. animal biotechnology; transgenic animals; endocrinology.

- Majumder, Gobinda, b. 1967, Ph.D. (Bombay), Department of High Energy Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off.(022) 2278 2378, Res. (022) 2278 3378, Mobile: 97574 88232 Fax (022) 2280 4610, email: gobinda@tifr.res.in, URL: http://www.tifr.res.in/~gobinda/, sp. calorimeter; B-physics & CP-violation; electroweak physics at collider.
- 2006 **Majumder,** Hemanta Kumar, b. 1950, Ph.D. (Calcutta), FNA, FNASc, FTWAS, JC Bose National Fellow, Raja Ramanna Fellow, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2412 3207, Res. (033) 2359 1532, Mobile: 98319 26491, Fax (033) 2473 5197, email: hkmajumder@iicb.res.in; hemantamajumder@yahoo.co.in, sp. biochemistry; molecular biology; parasitology.
- Majumder, Partha Pratim, b. 1952, Ph.D. (ISI, Calcutta), FNA, FNASc, FTWAS, Director, National Institute of Biomedical Genomics, Netaji Subhas Sanatorium, 2nd Floor, Kalyani 741 251, Tel. Off. (033) 2589 2150; (033) 2589 2151, Res. (033) 2565 4314, email: ppm1@nibmg.ac.in, sp. biostatistics; human genetics; population genetics.
- 1986 **Malhotra,** Kailash Chandra, b. 1938, Ph.D. (Pune), FNA, Res. 385, Sector 29, Noida 201 301, email: kcmalhotra2001@yahoo.co.in, sp. population genetics; human ecology.
- Malik, Satish Kumar, b. 1943, Ph.D. (Bombay), FNA, Visiting Professor, Centro Internacional de Fisica da Materia Condensada (CIFMC), ICCMP, Universidade de Brasilia, C. Postal 04513, 70904-970 Brasilia DF, Brazil, Tel. Off. (+55-61) 3307 2571/24, Mobile: (+55-61) 8495 0369, Fax (+55-61) 3307 1771, email: skm@tifr.res.in, sp. rare earth magnetism; superconductivity; strongly correlated electron systems.
- 2010 Mallick, Birendra Nath, b. 1956, Ph.D. (AIIMS), FNA, FNASc, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2670 4522, Res. (011) 2674 1370, Mobile: 98106 60572, Fax (011) 6171 7558, email: remsbnm@yahoo.com, URL: http://www.jnu.ac.in/Faculty/bnmallick/, sp. neuro-cognitive biology; sleep-wakefulness-REM sleep.
- Mallik, Asok Kumar, b. 1947, Ph.D. (IIT, Kanpur), FNA, FNASc, FNAE, Honorary Distinguished Professor, Indian Institute of Engineering Science and Technology, Shibpur, Howrah; Res. P-31, CIT Road, Scheme VI M(S), Kolkata 700 054, Tel. (033) 2364 8833,email:akmallik@iitk.ac.in, sp. vibration engineering; kinematics; dynamics of machines.

- 2012 **Mallik,** Ranjan Kumar, b. 1964, Ph.D. (USC, Los Angeles), FNA, FNAE, FNASc, FIEEE, FTWAS, Department of Electrical Engineering, Indian Institute of Technology, Hauz Khas, New Delhi 110 016, Tel. Off. (011) 2659 1049, Res. (011) 2659 1572, Mobile: 98106 54162, Fax (011) 2658 1606, email: rkmallik@ ee.iitd.ernet.in; ranjankmallik@yahoo.co.in, sp. electrical engineering (communications).
- Mandal, Asit Baran, b. 1952, Ph.D. (Jadavpur), FRSC, FNAE, Director, CSIR Central Leather Research Institute, Adyar, Chennai 600 020, Tel. Off. (044) 2491 0897; (044) 2491 0846, Res. (044) 2442 1703, Mobile: 99401 21703, Fax (044) 2491 2150; (044) 2491 1589, email: abmandal@clri.res.in; directorclri@gmail.com, URL: www.clri.org/staff/prof\_mandalprofile.htm, sp. physical & biophysical chemistry; organized self-assemblies; nanomaterials; ionic liquids; environmental S&T; electrochemistry & thermodynamics.
- 2006 **Mandal,** Chitra, b. 1951, Ph.D. (IISc), FNA, FNASc, FTWAS, FAMS, Head, CSIR Innovation Complex and Acting Director, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2429 8861, Res. (033) 2416 6609, Mobile: 98310 36964, Fax (033) 2473 5197, email: chitra\_mandal@yahoo.com; cmandal@iicb.res.in, sp. glycobiology; cancer biology; immunobiology.
- Mandal, Gautam, b. 1962, Ph.D. (Bombay), Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2429, Fax (022) 2280 4610, email: mandal@theory.tifr.res.in, URL: http://theory.tifr.res.in/~mandal/, sp. quantum field theory; gravity; string theory.
- 2006 **Mandal, Nibir,** b. 1963, Ph.D. (Jadavpur), FNA, Department of Geological Sciences, Jadavpur University, Kolkata 700 032, Tel. Off. (033) 2414 6666/2364, Res. (033) 2462 6528, email: nibirmandal@yahoo.co.in; nibirmandal@hotmail.com, sp. structural geology; solid earth geophysics; tectonics.
- Mandal, Nitai Chandra, b. 1938, Ph.D. (Calcutta), FNA, FNASc, Res. E-5, Digantika, AH Block, Sector II, Salt Lake, Kolkata 700 091, Tel. (033) 2359 1356, Mobile: 94775 85894, email: mandalnc2003@yahoo.com, sp. molecular genetics; molecular biology of prokaryotes.

- Mande, Chintamani, b. 1925, D.Phil. (Allahabad), D.Sc. (Paris), FNASc, Res. S/29, Bharat Nagar, Nagpur 440 001, Tel. (0712) 253 2407, Mobile: 98501 50633, email: c\_mande@hotmail.com, sp. X-ray spectroscopy; solid state physics.
- 2003 **Mande,** Shekhar Chintamani, b. 1962, Ph.D. (IISc), FNA, FNASc, Director, National Centre for Cell Science, NCCS Complex, Pune University Campus, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2569 1065; (020) 2570 8121, Fax (020) 2569 2259, email: director@nccs.res.in; shekhar@nccs.res.in, URL: http://www.nccs.res.in/SMande.html, sp. macromolecular crystallography; protein structure & function.
- Mani, Harihara Subra, b. 1938, Ph.D. (Columbia), FNASc, Adjunct Faculty, Chennai Mathematical Institute, Chennai; Res. 2, Seethambal Illam, Fourth Cross Street, Durga Colony, Sembakkam, Chennai 600 073, Tel. (044) 2228 1131, Mobile: 94447 04725, email: hsmani@gmail.com, sp. elementary particle physics.
- 2008 Manna, Indranil, b. 1961, Ph.D. (Kharagpur), FNASc, FNAE, FNA, Director, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7220; (0512) 259 0763, Res. (0512) 259 8333, Fax (0512) 259 0260, email: director@iitk.ac.in; imanna@iitk.ac.in, URL: www.imanna.org/, sp. structure–property correlation of engineering materials; nano-structured materials; surface engineering; nanofluids.
- Manoharan, Periakaruppan Thangiah, b. 1935, Ph.D. (Columbia), FNA, FTWAS, INSA Senior Scientist, Department of Chemistry, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4931, Res. (044) 2446 2374, Mobile: 98412 92225, email: ptm@iitm.ac.in, sp. physical, inorganic & bioinorganic chemistry; spectroscopy; nanoscience.
- 1975 **Mantravadi,** Murty Venkataradhakrishna, b. 1929, Ph.D. (Rochester), Res. 21610, Villa Pacifica Circle, Carson, California 90745, USA, Tel. (+1-310) 513 1882, email: collimate@yahoo.com, sp. optics; optical engineering.
- 2001 **Marimuthu,** Ganapathy, b. 1954, Ph.D. (MKU), D.Sc. (MKU), FNA, FNASc, INSA Senior Scientist, Department of Animal Behaviour & Physiology, School of Biological Sciences, Madurai Kamaraj University, Madurai 625 021, Tel. Off. (0452) 245 9116, Res. (0452) 245 8658, Mobile: 97916 96463, Fax (0452) 245 9181, email: mailbox\_gm@rediffmail.com; emailboxgm@gmail.com, sp. animal behaviour; chronobiology.

- Mashelkar, Raghunath Anant, b. 1943, Ph.D. (Bombay), FNA, FNASc, FNAE, FRS, FTWAS, Foreign Assoc., US Natl. Acad. Sci., National Research Professor, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2197; (020) 2590 2605, Res. (020) 2729 1268, Mobile: 99603 77577, Fax (020) 2590 2607, email: ram@ncl.res.in, sp. polymer science & engineering; molecular & convective diffusion; non-newtonian fluid mechanics; rheology. Council Service: 1989–2000; Vice-President: 1995–2000.
- Mathews, Cherian Kanjirathumkal, b. 1935, Ph.D. (McMaster), Managing Director, Indus Scientific Private Limited, Bengaluru; Res. Manas, 52, Banjara Orchards, Horamavu, Banaswadi Post, Bengaluru 560 043, Tel. Off. (080) 2544 9762; (080) 2544 9764, Res. (080) 2531 5545, Mobile: 98440 10286, Fax (080) 2543 0914, email: md@indusscientific.com; ckmathews@indusscientific.com, sp. high temperature chemistry; solid state ionics & sensors; materials characterization; instrumentation.
- Mathews, Piravonu Mathews, b. 1932, Ph.D. (Madras), FNA, Res. No. 22/20, Lady Madhavan Road, Nungambakkam, Chennai 600 034, Tel. (044) 2817 2098, Mobile: 99403 05041, email: indi4272@yahoo.com, sp. geoastronomy & geodynamics; quantum theory of particles & fields; statistical mechanics & mathematical methods.
- Mathur, Asha, b. 1938, MD (Lucknow), FRC Path. (London), FNA, FAMS, FNASc, FTWAS, Department of Pathology & Microbiology, Saraswati Medical & Dental College, Lucknow; Res. 103, Shalimar Estate, Birbal Sahni Marg, New Hyderabad, Lucknow 226 007, Tel. Off. (0522) 281 5044; (0522) 281 5045, Res. (0522) 278 0325, Mobile: 96213 95580, email: asha.mathur@gmail.com, sp. virology; immunology; medical microbiology.
- 1992 **Mathur,** Deepak, b. 1952, Ph.D. (London), FNA, FTWAS, Distinguished Professor, Atomic & Molecular Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2736, Res. (022) 2362 6287, Fax (022) 2280 4611, email: atmol1@tifr.res.in, sp. atomic, molecular, & optical physics; intense & ultrafast laser fields; molecular dynamics; biological physics.

- Mathur, Pradeep, b. 1955, Ph.D. (Keele), D.Sc.(h.c.), Director, Indian Institute of Technology, Khandwa Road, Indore 452 017; Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (0731) 243 8911; (0731) 243 8912, Res. (0731) 656 3470, Fax (0731) 243 8930, email: director@iiti.ac.in; mathur@iitb.ac.in, URL: www.chem.iitb.ac.in/~mathur, sp. organometallics & cluster chemistry.
- 2002 **Mayor,** Satyajit, b. 1963, Ph.D. (Rockefeller), FNA, FTWAS, JC Bose National Fellow, Director, National Centre for Biological Sciences, UAS-GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6302, Res. (080) 2546 4058, Fax (080) 2363 6662, email: mayor@ncbs.res.in, URL: http://www.ncbs.res.in/mayor, sp. cell biology; biophysics.
- Meher-Homji, Vispy Minocher, b. 1932, D.Sc. (Toulouse), Ph.D. (Bombay), FNA, FNASc, Res. 20D, Sagar Sangeet, 58, Colaba Road, Mumbai 400 005, Tel. (022) 2215 0120, sp. plant ecology; plant geography; bioclimatology.
- Mehta, Chandra Lal, b. 1938, Ph.D. (Rochester), Res. B-43,
   Gyandeep Apartments, Mayur Vihar, Phase-I, New Delhi 110 091,
   Tel. (011) 2279 6410, email: mehtacl@hotmail.com, sp. quantum
   & statistical optics; mathematical physics.
- Mehta, Goverdhan, b. 1943, Ph.D. (Pune), D.Sc. (h.c.), FNA, FNASc, FRS, FTWAS, National Research Professor and Jubilant-Bhartia Chair, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4848; (040) 2301 0785, Res. (040) 2313 6145, Mobile: 80083 93737, Fax (040) 2301 2460, email: gmsc@uohyd.ernet.in; gmehta43@gmail.com, sp. synthetic organic chemistry; natural products chemistry. Council Service: 1989–94, Vice-President: 1992–94.
- Menon, Mambillikalathil Govind Kumar, b. 1928, Ph.D. (Bristol), D.Sc. (h.c.), FRS, FNA, Hon. FNASc, FTWAS, Adviser, ISRO, Bengaluru, Res. C-178, First Floor, Sarvodaya Enclave, New Delhi 110 017, Tel. Off. (011) 2651 1454; (011) 2651 0825, Res. (011) 2696 6096, Mobile: 98112 27719, email: mgkmenon@nic.in, sp. cosmic rays; particle physics. Council Service: 1968–85; Vice-President: 1971–73; President: 1974–76.
- Menon, Thuppalay Kochugovinda, b. 1928, Ph.D. (Harvard), Res. 106-2803 41st Avenue, Vancouver, British Columbia V6N 4B4, Canada, Tel. Off. (+1-604) 822 0330, Res. (+1-604) 266 1789, email: menon@astro.ubc.ca, sp. astrophysics.

- Merh, Sukumar Shyamlal, b. 1928, Ph.D. (London), FNA, FNASc, Res. Flat 5, Ashdown Court, 5 Idmiston Road, Worcester Park, Surrey KT4 7SE, London, UK, Tel. (+44-20) 8330 1225, sp. structural geology; Himalayan geology; quaternary geology.
- 2011 Minwalla, Shiraz, b. 1972, Ph.D. (Princeton), Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2212, Res. (022) 2287 5952, Mobile: 98670 50908, Fax (022) 2280 4610-11, email: shiraz.minwalla@gmail.com, sp. string theory; gravity; quantum field theory.
- 2009 **Mishra,** Akhilesh Chandra, b. 1950, Ph.D. (Pune), FNA, Scientist G, National Institute of Virology, 20-A, Ambedkar Road, Pune 411 001, Tel. Off. (020) 2600 6332, Res. (020) 2587 0302, Mobile: 99701 78555, email: acm1750@gmail.com, sp. epidemiology of viral infections of public health importance; zoonotic disease diagnostics; vaccine development.
- Mishra, Gyan Chandra, b. 1947, Ph.D. (Udaipur), FNA, FNASc, Eminent Scientist, National Centre for Cell Science, NCCS Complex, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2570 8283, Res. (020) 6529 6510, Mobile: 94225 22705, Fax (020) 2569 7756, email: gcmishra@nccs.res.in, sp. immunology; cell biology.
- 1999 **Mishra,** Manoj Kumar, b. 1952, Ph.D. (Florida), FNASc, Vice Chancellor, Birla Institute of Technology, Mesra, Ranchi 835 215, Tel. Off. (0651) 227 5402, Res. (0651) 227 5813, Mobile: 77638 17507, Fax (0651) 227 5401, email: vc@bitmesra.ac.in; mmishra@iitb.ac.in, URL: http://www.chem.iitb.ac.in/~mmishra, sp. electronic structure theory; photo/collisional dynamics.
- 2012 Mishra, Rakesh Kumar, b. 1961, Ph.D. (Allahabad), FNASc, FNA, Scientist and Group Leader, E405, CSIR Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2658, Res. (040) 2720 6400, Mobile: 94419 02188, Fax (040) 2716 0591, email: mishra@ccmb.res.in, sp. genomics; chromatin; epigenetics.
- Mishra, Santosh Kumar, b. 1941, Ph.D. (Pune), FNA, Res. Flat 4, 163/24, Mausam Vihar, Park Avenue, Off DP Road, Aundh, Pune 411 007, Tel. (020) 2589 0369, email: skmishrapune@rediffmail. com, sp. dynamic meteorology; numerical modelling of the atmosphere.

- 1999 **Misra,** Gadadhar, b. 1956, Ph.D. (SUNY, Stony Brook), FNA, Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2712, Res. (080) 2341 2348, Mobile: 94498 17021, Fax (080) 2360 0146, email: gm@math.iisc.ernet.in; gadadhar.misra@gmail.com, URL: http://math.iisc.ernet.in/~gm/, sp. operator theory; operator spaces. **Council Service:** 2007–09.
- Misra, Krishna Behari, b. 1943, Ph.D. (IIT, Roorkee), FNAE, Res. 71, Vrindaban Vihar, Krishna Kutir, Ajmer Road, Jaipur 302 019, Tel. (0141) 281 1080, Mobile: 94140 44080, email: kbmisra@gmail.com, sp. reliability, maintainability, availability, risk & safety, sustainability and performability engineering.
- 2003 **Misra,** Usha Kant, b. 1952, MD (Lucknow), FAMS, FRCP (Edinburgh), FNA, Professor & Head, Department of Neurology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Rae Bareily Road, Lucknow 226 014, Tel. Off. (0522) 249 4167, Res. (0522) 220 5931, Mobile: 94506 53685, Fax (0522) 266 8811, email: drukmisra@rediffmail.com, sp. clinical neurology; neurophysiology; tropical neurology.
- 1975 **Mistry,** Kekhushroo Bamanshaw, b. 1936, Ph.D. (Delhi), Res. 52, Sunshine, Dr Rajaballi Patel Lane, Mumbai 400 026, Tel. (022) 2351 7387; (022) 2351 0564, Mobile: 97730 77329, sp. soil science; fertilizers; agrochemicals.
- Mitra, Asoke Nath, b. 1929, Ph.D. (Delhi & Cornell), FNA, FNASc, FTWAS, Res. 244, Tagore Park (Near Kingsway Camp), Delhi 110 009, Tel. (011) 2744 6153, email: ganmitra@nde.vsnl.net.in, sp. theoretical, nuclear & quark physics. Council Service: 1974–76.
- Mitra, Debashis, b. 1960, Ph.D. (Jadavpur), FNASc, FNA, Scientist G, National Centre for Cell Science, Pune University Campus, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2570 8151, Res. (020) 2569 8553, Mobile: 98230 59841, Fax (020) 2569 2259, email: dmitra@nccs.res.in, URL: http://www.nccs.res.in/mitra1.html, sp. molecular virology; HIV/AIDS & anti-viral drug discovery; molecular immunology.
- Mitra, Samaresh, b. 1940, D.Phil. (Calcutta), FNA, FNASc, INSA Senior Scientist, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2499 5866, Res. (033) 2418 8209, Mobile: 98312 73257, Fax (033) 2473 0284, email: samaresh.mitra@gmail.com; mitrasamaresh@yahoo.com, sp. biological chemistry; inorganic biochemistry.

- Mittal, Jai Pal, b. 1940, Ph.D. (Notre Dame), FNA, FNASc, FTWAS, MN Saha Distinguished Professor (NASI), Bhabha Atomic Research Centre, Mumbai; Res. 11-B, Rohini Co-op. Housing Society, Sector 9A, Vashi, Navi Mumbai 400 703, Tel. Off. (022) 2559 5245; (022) 2559 5246, Res. (022) 2766 4822, Fax (022) 2550 5151, email: mittaljp2003@yahoo.co.in; mittaljp@barc.gov.in, sp. radiation chemistry & radiation biology; photochemistry & photobiology; laser chemistry; chemical dynamics.
- 2007 **Mittal,** Sanjay, b. 1968, Ph.D. (Minnesota), FNAE, FNA, FNASc, Department of Aerospace Engineering, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7906, Res. (0512) 259 8702, Fax (0512) 259 7561, email: smittal@itk.ac.in, URL: home.iitk.ac.in/~smittal, sp. unsteady aerodynamics; finite element analysis; high performance computing; experimental aerodynamics; bluff-body flows; vortex induced vibrations; high speed flows; aerodynamic shape optimization; sports aerodynamics; traffic flow.
- Mittra, Indraneel, b. 1943, M.B.B.S. (Delhi), Ph.D. (London), FRCS (England), FNA, Dr Ernest Borges Chair in Translational Research & Professor Emeritus, Department of Surgical Oncology, Tata Memorial Centre, Dr Ernest Borges Road, Mumbai 400 012, Tel. Off. (022) 2417 7285, Res. (022) 2497 6307, Mobile: 97697 69720, Fax (022) 2417 7286; Advanced Centre for Treatment, Research and Education in Cancer, Khargar, Navi Mumbai 410 210, Tel. Off. (022) 2740 5136, Fax (022) 2740 5061, email: indraneel.mittra@gmail.com, sp. cancer surgery; cancer biology; cancer prevention. Council Service: 2004–06.
- 1999 **Mohan,** Anand, b. 1957, Ph.D. (Banaras), FNASc, Registrar, Dayalbagh Educational Institute, Dayalbagh, Agra 282 005, Tel. Off. (0562) 654 4855, Mobile: 93369 07431, email: anand.abhu@gmail.com; registrar.dei@gmail.com, sp. metamorphic petrology; mineralogy; precambrian geology; disaster management & mitigation; consciousness studies.
- Mohan, Viswanathan, b. 1954, Ph.D. & D.Sc. (Madras), FNA, FNASc, FTWAS, FRCP (London, Glasgow, Edinburgh, Ireland), Director, Dr Mohan's Diabetes Specialities Centre, No. 6B, Conran Smith Road, Gopalapuram, Chennai 600 086, Tel Off. (044) 4396 8888, Res. (044) 2431 1238, Mobile: 98400 97370, Fax (044) 2835 0935, email: drmohans@diabetes.ind.in, sp. diabetes & its complications; epidemiology; genomics studies; translational research.

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  (+1-314) 935 6839, email: kumar@wustl.edu, URL: www.math.wustl.edu/
  ~kumar, sp. commutative algebra; algebraic geometry.
- Mohan Ram, Holenarasipur Yoganarasimham, b. 1930, Ph.D. (Delhi), FNA, FNASc, FNAAS, Res. No. 174, SFS DDA Flats, Mukherjee Nagar, Delhi 110 009, Tel. (011) 2765 2773, Mobile: 98181 85469, email: hymohanram@gmail.com, sp. plant growth & development; economic botany. Council Service: 1983–88; Vice-President: 1986–88.
- Mohan Rao, Chintalagiri, b. 1954, Ph.D. (Hyderabad), FNA, FNASc, FTWAS, Director, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2716 0789, Res. (040) 2720 0633; (040) 2720 3931, Fax (040) 2716 0252, email: mohan@ccmb.res.in, URL: www.ccmb. res.in/staff/mohan, sp. molecular biology and biophysics; protein folding and molecular chaperones in health and disease; role of heat shock proteins in gene expression, cell cycle, differentiation and apoptosis; DNA based diagnostics & nanobiology.
- 2012 **Mohanty,** Debasisa, b. 1966, Ph.D. (IISc), FNASc, FNA, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2670 3749, Res. (011) 2670 3730, Mobile: 98187 47627, Fax (011) 2674 2125, email: deb@nii.ac.in, sp. bioinformatics; computational & structural biology; biophysics.
- Mohanty, Uma Charan, b. 1948, Ph.D. (Moscow), FNASc, FNAE, FNA, School of Earth, Ocean and Climate Sciences, Indian Institute of Technology, Bhubaneswar; Res. A2-708, Toshali Bhawan, Satyanagar, Bhubaneswar 751 007, email: ucmohanty@gmail.com, sp. numerical weather prediction; monsoon dynamics; climate modelling; tropical meteorology; mesoscale modelling system.
- 1993 **Mohanty-Hejmadi,** Priyambada, b. 1939, Ph.D. & MS (Michigan), GM-8, V S S Nagar, Bhubaneswar 751 007, Mobile: 87632 84662, email: mohantyhejmadi@yahoo.com; mohantyhejmadi.com@gmail.com, sp. developmental biology; herpetology (amphibians & reptiles including the olive ridley sea turtle).

- Mondal, Naba Kumar, b. 1951, Ph.D. (Bombay), D.Sc. (h.c.), FNA, FNASc, FTWAS, Senior Professor, Department of High Energy Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2227; (022) 2280 4903, Res. (022) 2280 4874; (022) 2278 3227, Mobile: 99875 37701, Fax (022) 2280 4610, email: nkm@tifr.res.in; nabak.mondal@gmail.com, sp. experimental particle physics; accelerator-based and non-accelerator-based particle physics; neutrino physics.
- 2010 **Moorthy,** Jarugu Narasimha, b. 1964, Ph.D. (IISc), Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7438, Res. (0512) 259 8527, Mobile: 94503 43016, Fax (0512) 259 7436, email: moorthy@iitk.ac.in, sp. organic photochemistry; supramolecular chemistry; mechanistic organic chemistry & synthesis.
- 2012 Mugesh, Govindasamy, b. 1970, Ph.D. (IIT, Bombay), FNASc, FRSC (London), Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 2566, Res. (080) 2360 5888, Mobile: 94484 50108, Fax (080) 2360 2566, email: mugesh@ipc.iisc.ernet.in, URL: http://ipc.iisc.ernet.in/~mugesh/, sp. bioinorganic chemistry; chemical biology; medicinal chemistry.
- Mujumdar, Pradeep Pralhad, b. 1958, Ph.D. (IISc), Department of Civil Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2323, Res. (080) 2360 2668, Mobile: 98452 15612, Fax (080) 2360 0290, email: pradeep@civil.iisc.ernet.in, URL: http://civil.iisc.ernet.in/~pradeep/, sp. hydrology; uncertainty modeling; climate change impacts.
- 2001 **Mukerjee,** Rahul, b. 1956, Ph.D. (Calcutta), FNA, FNASc, Indian Institute of Management, Joka, Diamond Harbour Road, Kolkata 700 104, Tel. Off. (033) 2467 8300, Res. (033) 2423 9712, Fax (033) 2467 8307, email: rmuk0902@gmail.com, sp. design of experiments; asymptotic theory; survey sampling.
- Mukerji, Mitali, b. 1967, Ph.D. (IISc), Senior Principal Scientist, Genomics & Molecular Medicine, CSIR Institute of Genomics & Integrative Biology, Sukhdev Vihar, Mathura Road, New Delhi 110 020, Tel. Off. (011) 2987 9302, Res. (011) 2692 1523, Mobile: 98112 88052, Fax (011) 2987 9111, email: mitali@igib.res.in, sp. functional genomics; population genomics; ayurgenomics.

- Mukherjee, Debashis, b. 1946, Ph.D. (Calcutta), FNA, FNASc, FTWAS, Emeritus Professor, Raman Centre for Atomic, Molecular & Optical Sciences, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2499 1144, Res. (033) 2429 6289, Mobile: 93310 19518, Fax (033) 2473 2805, email: pcdm@iacs.res.in; pcdemu@gmail.com, URL: www.iacs.res.in/pcdm.html, sp. theoretical chemistry; theoretical spectroscopy.
- 1999 **Mukherjee,** Rabindra Nath, b. 1953, Ph.D. (Calcutta), FNA, Director, Indian Institute of Science Education & Research, Mohanpur 741 246, Tel. Off. (033) 2587 3017, Res. (033) 6451 0542, Mobile: 98308 39343; 99033 82482, Fax (033) 2587 3028, email: rnm@iiserkol.ac.in; director@iiserkol.ac.in, URL: home.iitk.ac.in/~rnm, sp. inorganic chemistry; bioinorganic chemistry.
- 2005 **Mukherjee,** Sunil Kumar, b. 1950, Ph.D. (Calcutta), FNASc, FNA, Platinum Jubilee Fellow & NASI Senior Scientist, Department of Genetics, University of Delhi, South Campus, Benito Juarez Marg, New Delhi 110 021, Tel. Res. (011) 2689 5815, Mobile: 98719 95629, email: sunilmukherjee@hotmail.com, sp. molecular biology; extra chromosomal DNA replication; plant viral pathogenesis & RNAi.
- 2000 **Mukhi,** Sunil, b. 1956, Ph.D. (SUNY, Stony Brook), FNA, FTWAS, Chair, Physics Programme and Senior Professor, Indian Institute of Science Education and Research, Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 6118, Mobile: 98672 01156, Fax (020) 2586 5315, email: sunil.mukhi@gmail.com, URL: www.sunilmukhi.in, sp. string theory; quantum gravity; supersymmetry.
- 2010 Mukhopadhyay, Amitabha, b. 1959, Ph.D. (Jadavpur), FNASc, FNA, Staff Scientist VII, Cell Biology Laboratory, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2670 3596, Res. (011) 2674 1164, Mobile: 98108 87164, email: amitabha@nii.ac.in, sp. cell biology; host–pathogen interactions; drug delivery.
- Mukhopadhyay, Dhrubajyoti, b. 1938, Ph.D. (London), FNA, FNASc, INSA Honorary Scientist, Raman Centre for Applied & Interdisciplinary Sciences, Kolkata; Res. G-7, MIG Housing Estate, 25/3 Raja Manindra Road, Kolkata 700 037, Tel. (033) 2556 8099, Mobile: 94330 92581, email: dhruba\_38@yahoo.co.uk, sp. structural geology; precambrian geology; metamorphic petrology.

- Mukhopadhyay, Sangita, b. 1966, Ph.D. (Utkal), FNASc, Group Leader, Molecular Cell Biology Laboratory, Centre for DNA Fingerprinting and Diagnostics, 5-4-399/B, Nampally, Hyderabad 500 001, Tel. Off. (040) 2474 9423, Res. (040) 2700 6994, Mobile 94907 51094, Fax (040) 2474 9448, email: sangita@cdfd.org.in; sangitacdfd@gmail.com, URL: http://www.cdfd.org.in/labpages/sangita.html, sp. immunology; cell signalling; communicable disease.
- Mukunda, Hanasoge Suryanarayana Avadhany, b. 1943, Ph.D. (IISc), FNAE, Adviser, ABETS, CGP Laboratory, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0536; (080) 2293 2338, Res. (080) 2323 5014, Fax (080) 2360 1692, email: hsm.cgpl@gmail.com, sp. combustion aerodynamics; fluid mechanics; rocket propulsion; energy from bioresidues.
- Mukunda, Narasimhaiengar, b. 1939, Ph.D. (Rochester), FNA, FNASc, FTWAS, INSA CV Raman Research Professor; Res. 103, 6th Main Road, Malleswaram, Bengaluru 560 003, Tel. (080) 2334 8657, email: nmukunda@gmail.com, sp. theoretical particle physics; mathematical physics; mechanics; theoretical optics. Council Service: 1989–91, 1998–2012; Editor of Publications: 1998–2012, Vice-President: 2001–12.
- Muniyappa, Kalappa, b. 1952, Ph.D. (IISc), FNA, FNASc, FTWAS, Department of Biochemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0278; (080) 2293 2235, Res. (080) 2360 1242, Fax (080) 2360 0814, email: kmbc@biochem.iisc.ernet.in, sp. molecular genetics; genetic recombination; telomere biology.
- Munjal, Manohar Lal, b. 1945, Ph.D. (IISc), FNA, FNAE, FNASc, Honorary Professor & INSA Senior Scientist, Facility of Research in Technical Acoustics, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2303, Res. (080) 2341 4855, Fax (080) 2360 0648, email: munjal@mecheng.iisc.ernet.in, URL: www.mecheng.iisc.ernet.in/~frita, sp. technical acoustics; noise & vibration control; mufflers & silencers.
- Muralidhar, Kambadur, b. 1948, Ph.D. (IISc), FNA, FNASc, JC
  Bose National Fellow, Honorary Professor, School of Life
  Sciences & Biotechnology, South Asian University, Akbar
  Bhawan, Chanakyapuri, New Delhi 110 021, Tel. Off.
  (011) 2419 5229, Mobile: 98109 27705, email: kambadur@
  hotmail.com; kambadur2014@southasianuniversity.org, sp.
  biochemistry; endocrinology; reproductive biology.

- Murthy, Mathur Ramabhadrashastry Narasimha, b. 1950, Ph.D. (IISc), FNA, FNASc, FTWAS, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2458, Res. (080) 2337 2981, Mobile: 99003 13742, Fax (080) 3416 0535, email: mrn@mbu.iisc.ernet.in, sp. macromolecular crystallography; virus structure & assembly; protein structure & function; X-ray diffraction.
- 2004 **Murthy,** Mundur Venkatasubbiah Nagaraja, b. 1953, Ph.D. (Mysore), The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3326, Res. (044) 2257 0652, Fax (044) 2254 1586, email: murthy@imsc.res.in, sp. particle physics; phenomenology; quantum statistics; semiclassical methods.
- Murty, Budaraju Srinivasa, b. 1964, Ph.D. (IISc), FNASc, FNAE, FNA, Department of Metallurgical & Materials Engineering, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4754, Res. (044) 2257 6754, Mobile: 94440 77006, Fax (044) 2257 0509, email: murty@iitm.ac.in, URL: www.mme.iitm.ac.in/murty, sp. non-equilibrium processing; nanocrystalline materials & metallic gases; high entropy alloys; *in-situ* composites.
- Murty, Sripada Venkata Satyasuryanarayana, b. 1952, Ph.D. (IIT, Kanpur), Honorary Scientist, Physical Research Laboratory, Ahmedabad 380 009, Tel. Off. (079) 2631 4408, Res. (079) 2673 1343, Fax (079) 2631 4407, email: murty@prl.res.in; murty\_svs@yahoo.com, sp. early solar system & pre-solar processes; cosmochemistry of nitrogen & noble gases; mass spectrometry & planetary exploration.
- Murty, Thutupalli Gopala Krishna, b. 1944, Ph.D. (Adelaide), Adviser, ARCI, Hyderabad; Res. 848, 8th B Main, 17th Cross, ISRO Layout, Bengaluru 560 078, Tel. Res. (080) 2686 0808, Mobile: 99011 55660, email: gkmtpalli@hotmail.com; murty.tgk@gmail.com, sp. optical engineering; thin film technology; electrooptical instrumentation; atmospheric science technologies.
- 2009 **Murugavel,** Ramaswamy, b. 1964, Ph.D. (IISc), FNA, Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7163, Res. (022) 2576 8163, Mobile: 98208 03249, Fax (022) 2572 3480, email: rmv@chem. iitb.ac.in, URL: www.chem.iitb.ac.in/~rmv, sp. inorganic & organometallic chemistry.

- Muthukkaruppan, Veerappan, b. 1934, Ph.D. (Wisconsin), FNA, Advisor-Research, Aravind Medical Research Foundation, No. 1, Anna Nagar, Madurai 625 020, Tel. Off. (0452) 435 6550, Res. (0452) 245 6191, Mobile: 94432 79635, Fax (0452) 253 0984, email: muthu@aravind.org; drvrm2002@gmail.com, sp. immunology; angiogenesis in ocular diseases; ocular stem cells.
- Nadkarni, Mahendra Ganpatrao, b. 1939, Ph.D. (Brown), FNA, Emeritus Professor, Department of Mathematics, University of Bombay, Vidya Nagari, Kalina, Mumbai 400 098, Tel. Off. (022) 2652 8871, Res. (022) 2444 1093, email: mgnadkarni@gmail.com, sp. ergodic theory; commutative harmonic analysis.
- Nadkarni, Vikas Madhusudan, b. 1947, Ph.D. (Delaware), Managing Director, Techcellence Consultancy Services Private Limited, 5 Pushkaraj, Pushpak Park, Aundh, Pune 411 007, Tel. Off. (020) 2588 1780, Res. (020) 2588 5146, Mobile: 98220 34477, Fax (020) 2588 1184, email: drvmn@vsnl.com; drvmn@ymail.com, URL: www.vikastech.com, sp. polymer science & engineering; materials science; chemical engineering.
- Nag, Kamalaksha, b. 1942, Ph.D. (Calcutta), FNA, Emeritus Professor & INSA Honorary Scientist, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1352, Res. (033) 2406 6575, Mobile: 96745 13756, Fax (033) 2473 2805, email: ickn@iacs.res.in, URL: www.iacs.res.in/ickn.html, sp. inorganic chemistry.
- 2010 **Nagaraj,** Donihakalu Shankar, b. 1958, Ph.D. (Bombay), The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3271, Res. (044) 2451 6393, Fax (044) 2254 1586, email: dsn@imsc.res.in, sp. mathematics; algebraic geometry; vector bundles.
- Nagaraj, Ramakrishnan, b. 1953, Ph.D. (IISc), FNA, FNASc, Scientist, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2589; (040) 2716 0222, Res. (040) 2701 9882, Mobile: 98483 03895, Fax (040) 2716 0591, email: nraj@ccmb.res.in; nrajccmb@gmail.com, sp. peptide conformation; membrane biochemistry; host-defence peptides; peptide & protein nanostructures.

- Nagaraja, Valakunja, b. 1954, Ph.D. (IISc), FNA, FNASc, FTWAS, Microbiology and Cell Biology Department, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0668; (080) 2293 2598, Res. (080) 2341 8256, Fax (080) 2360 2697, email: vraj@mcbl.iisc.ernet.in, URL: http://mcbl.iisc.ernet.in/vn.htm, sp. protein-nucleic acid interactions; restriction-modification systems; molecular biology of mycobacteria; regulation of gene expression.
- Nagarajan, Kuppuswamy, b. 1930, Ph.D. (Madras), FNA, Corporate Adviser, Hikal Limited, R&D Centre, Bengaluru; Alkem R&D Centre, 13th Cross, 4th Phase, Peenya Industrial Area, Bengaluru 560 058, Tel. Off. (080) 3023 6212/8212; (080) 4149 2531, Res. (080) 2659 2351, Mobile: 98867 13958, Fax (080) 2658 4302; (080) 4149 2535, email: n\_kuppuswamy@hotmail. com; k\_nagarajan@ hikal.com, sp. natural products; medicinal, pesticide & synthetic heterocyclic chemistry; applications of NMR to structure & reactivity.
- Nagarajan, Radhakrishnan, b. 1942, B.Sc. (Hons), Ph.D. (Delhi), FNA, FNASc, Emeritus Professor, UM-DAE-CBS, Mumbai; Res. 303, Dnyaneshwar, off D. Gaikwad Road (near Tambe Nagar Jain Temple), Mulund (West), Mumbai 400 080, Mobile: 93223 70689, email: nagjan2006@gmail.com, sp. superconductivity; magnetism; heavy fermion behaviour; Mössbauer spectroscopy; instrumentation; cryogenics.
- Nageswara Rao, Gullapalli, b. 1945, MD (Opthal.) (AIIMS), D.Sc. (h.c.), D. Med., FAMS, FACS, FRCS, FNASc, Distinguished Chair of Eye Health, L V Prasad Eye Institute, L V Prasad Marg, Banjara Hills, Hyderabad 500 034, Tel. Off. (040) 3061 2609, email: gnrao@lvpei.org, sp. cornea; community eye health; eye care policy & planning.
- Nair, Gopalan Vijayakumaran, b. 1941, Ph.D. (Banaras & British Columbia), Raja Ramanna Fellow, Organic Chemistry Section, CSIR National Institute for Interdisciplinary Science & Technology, Thiruvananthapuram 695 019, Tel. Off. (0471) 249 0406, Res. (0471) 235 8707, Mobile: 98950 41707, Fax (0471) 249 1712, email: vijaynair.tvm@gmail.com; vijaynair\_2001@yahoo.com, sp. synthetic organic chemistry; heterocyclic chemistry; medicinal chemistry.

- Nair, Gopinath Balakrish, b. 1954, Ph.D. (Annamalai), FNASc, FNA, FTWAS, Executive Director, Translational Health Science and Technology Institute, 496, Udyog Vihar, Phase III, Gurgaon 122 016, Tel. Off. (0124) 287 6400, Res. (0124) 423 3633, Mobile: 99998 29379, Fax (0124) 287 6500, email: nairgb@thsti.res.in; gbnair\_2000@yahoo.com, sp. clinical microbiology; molecular epidemiology; diarrhoeal diseases.
- Nakra, Bahadur Chand, b. 1939, Ph.D. (London), FNA, FNAE, FNASc, Professor of Eminence and Principal Adviser to GB, ITM University, HUDA Palam Vihar, Sector 23A, Gurgaon 122 017, Tel. Off. (0124) 236 5811/251, Res. (0124) 407 5668, Mobile: 98106 60668, email: bcnakra@itmindia.edu; bcnakra@hotmail.com, sp. vibration engineeering; system dynamics; mechatronics.
- 2009 Nandi, Arun Kumar, b. 1955, Ph.D. (Jadavpur), Senior Professor, Polymer Science Unit, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1561, Res. (033) 2435 1340, Fax (033) 2473 2805, email: psuakn@iacs.res.in, sp. polymer crystallization & gelation; polymer blends & hybrids; polymer nanocomposites; supramolecular polymers.
- 2008 Nangia, Ashwini, b. 1960, Ph.D. (Yale), FNA, FNASc, FRSC, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4854; (040) 2301 1338, Res. (040) 2332 7570, Mobile: 98481 55416, Fax (040) 2301 2460, email: ashwini.nangia@gmail.com, sp. organic chemistry; crystal engineering; supramolecular chemistry; polymorphism.
- Nanjundiah, Vidyanand, b. 1947, Ph.D. (Chicago), Centre for Human Genetics, BioTech Park, Electronic City (Phase I), Bengaluru 560 100, Tel. Off. (080) 2852 1831-2; (080) 2852 3596, Res. (080) 2667 0631, Fax (080) 2852 1832, email: vidya@ces.iisc.ernet.in, sp. developmental biology; theoretical biology; evolution. Council Service: 2004–09.
- Naqvi, Syed Wajih Ahmad, b. 1954, Ph.D. (Pune), FNA, FNASc, FTWAS, Director, CSIR National Institute of Oceanography, Dona Paula 403 004, Tel. Off. (0832) 245 0200, Res. (0832) 245 0786; (0832) 245 3463, Fax (0832) 245 0602, email: naqvi@nio.org, sp. chemical oceanography; palaeo-oceanography; aquatic biogeochemistry; global change.

- 2009 **Narahari,** Yadati, b. 1959, Ph.D. (IISc), FNASc, FNAE, FIEEE, FNA, Department of Computer Science & Automation, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2773, Res. (080) 2331 0265, Fax (080) 2360 2911, email: hari@csa.iisc. ernet.in, URL: http://lcm.csa.iisc.ernet.in/hari, sp. game theory & mechanism design; electronic commerce internet; network economics.
- Narain, Prem, b. 1934, Ph.D. & D.Sc. (Edinburgh), FNA, FNASc, FNAAS, Res. B-3/27A, Lawrence Road, Keshav Puram, New Delhi 110 035, email: narainprem@hotmail.com; premn877@ gmail.com, sp. statistical genetics & genomics.
- Narasimha, Roddam, b. 1933, B.E., Ph.D. (Caltech), FNA, FNASc, FRS, FTWAS, Foreign Assoc., Foreign Hon. Member, AAAS, US Natl. Acad. Engg. & US Natl. Acad. Sci., DST Year-of-Science Professor, Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2999, Res. (080) 2341 2705, Fax (080) 2208 2951, email: roddam@caos.iisc.ernet.in, URL: http://www.jncasr.ac.in/roddam/, sp. aerospace engineering; fluid mechanics; atmospheric science & technology policy. Council Service: 1977–97; Secretary: 1980–85; Vice-President: 1986–91; President: 1992–94.
- 1984 **Narasimham,** Vemuri Syamala, b. 1937, Ph.D. (Bombay), FNASc, Res. 202, Vigyan, Plot 23, Sector 17, Vashi, Navi Mumbai 400 703, Tel. (022) 2766 6155, Mobile: 98197 14541, email: narasimham.vemuri@gmail.com, sp. cosmic ray physics; particle physics.
- Narasimhan, Mudumbai Seshachalu, b. 1932, Ph.D. (Bombay), FNA, FNASc, FRS, Honorary Fellow, Tata Institute of Fundamental Research & IMI Distinguished Associate, Department of Mathematics, Indian Institute of Science, Bengaluru; Res. 9, Guruparadise Apartments, 24, 4th Main Road, Amarjyothi Layout, Sanjaynagar, Bengaluru 560 094, Tel. Off. & Fax (080) 2360 5390, Res. (080) 2351 8865, Mobile: 98864 81457, email: narasim@ math.tifrbng.res.in, sp. algebraic & differential geometry & analysis. Council Service: 1977–82; Vice-President: 1980–82.
- Narasimhan, Nurani Sivaramakrishna, b. 1928, Ph.D. (Madras), FNA, Res. 22, Niyoshi Park II, D.P. Road, Aundh, Pune 411 007, Tel. (020) 2588 0178, email: nsn1928@gmail.com, sp. synthetic organic chemistry; chemistry of natural products; organolithium compounds.

- Narasimhan, Ramarathnam, b. 1960, Ph.D. (Caltech), FNA, FNAE, Chairman, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2959, Res. (080) 2341 9667, Fax (080) 2360 0648, email: narasi@mecheng.iisc.ernet.in, sp. fracture mechanics; computational solid mechanics.
- Narayan, Kavassery Sureswaran, b. 1964, Ph.D. (Ohio State), FNASc, FNA, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2822, Res. (080) 2351 1402, Fax (080) 2208 2766, email: narayan@jncasr.ac.in, sp. organic/polymer electronics; device physics; bioelectronics; photovoltaics.
- Narayanamurti, Venkatesh, b. 1939, Ph.D. (Cornell), Benjamin Peirce Professor of Technology and Public Policy & Professor of Physics, Harvard University, Pierce Hall 107D, 29 Oxford Street, Cambridge, Massachusetts 02138, USA, Tel. Off. (+1-617) 384 8211, Res. (+1-617) 369 0990, Fax (+1-617) 496 5264, email: venky@seas.harvard.edu, sp. solid state; nanoscience; electronic materials; science policy.
- Narlikar, Anant Vishnu, b. 1940, Ph.D. (Cantab), Sc.D. (Cantab), FNA, FNASc, INSA Senior Scientist & Visiting Fellow, UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore 452 017, Tel. Off. (0731) 246 3913, Res. (0731) 246 0161, Fax (0731) 246 2294, email: narlikar@yahoo.com, sp. superconductivity; low temperature physics; STM & related techniques.
- Narlikar, Jayant Vishnu, b. 1938, Sc.D. (Cantab), FNA, FNASc, FTWAS, Emeritus Professor, Inter-University Centre for Astronomy & Astrophysics, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4100/357, Res. (020) 2588 1150, Mobile: 94235 22142, Fax (020) 2560 4698–99, email: jvn@iucaa.ernet.in; jayant@iucaa.ernet.in, sp. cosmology; general relativity; gravitation. Council Service: 1986–88.
- Natarajan, Kootalai Ananthaiyer, b. 1942, Ph.D. (Minnesota), D.Sc. (IISc), FNASc, FNAE, NASI Senior Scientist and Emeritus Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2679, Res. (080) 2364 6499, Mobile: 98802 50091, Fax (080) 2360 0472, email: kan@materials.iisc.ernet.in, sp. mineral processing; hydrometallurgy; biomineral technology; corrosion engineering.

- Natarajan, Paramasivam, b. 1940, Ph.D. (USC, LA), FNA, Emeritus Professor, National Centre for Ultrafast Processes, University of Madras, Taramani Campus, Chennai 600 113, Tel Off. (044) 2454 7192, Res. (044) 2447 2332, Mobile: 94448 70993, Fax (044) 2492 6709, email: pnatrajan@hotmail.com, sp. inorganic photochemistry; laser flash photolysis; chemical conversion of solar energy.
- 2009 **Natarajan,** Srinivasan, b. 1960, Ph.D. (Madras), FNASc, FNA, Framework Solids Laboratory, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2551, Res. (080) 2341 7591, Mobile: 94489 37430, Fax (080) 2360 1310, email: snatarajan@sscu.iisc.ernet.in; rajan1960@gmail.com, sp. inorganic materials chemistry; solid state chemistry.
- Nath, Girishwar, b. 1932, Ph.D. (Budapest), Res. c/o Dr S.K. Sinha, Type IV/17, KNIT Campus, Kamala Nehru Institute of Technology, Sultanpur 228 118, sp. fluid mechanics; magnetohydrodynamics; turbomachines.
- 2010 **Navalgund,** Ranganath Ramarao, b. 1948, Ph.D. (TIFR), Vikram Sarabhai Professor, ISRO Head Quarters, Antariksh Bhavan, New BEL Road, Bengaluru 560 231, Tel. Off. (080) 2351 5593, email: navalrr@gmail.com, sp. remote sensing; space applications; magnetic resonance.
- Nayak, Nabeen Chandra, b. 1931, MD (Lucknow), FRC Path., FNA, FAMS, Senior Consultant & Head, Department of Histopathology, Sir Gangaram Hospital, Rajinder Nagar, New Delhi 110 060, Tel. Off. (011) 4225 2133; (011) 4225 2137, Mobile: 90138 20308, email: dr\_ncnayak@yahoo.com, sp. pathology; oncology; liver diseases.
- Nayak, Shailesh, b. 1953, Ph.D. (Baroda), Secretary, Ministry of Earth Sciences, Prithvi Bhavan, Lodi Road, New Delhi 110 003, Tel. Off. (011) 2462 9771, Res. (011) 2410 4166, Mobile: 98688 44441, Fax (011) 2462 9777, email: secretary@moes.gov.in; shaileshnayak@hotmail.com, URL: http://dod.nic.in/moessecy.htm, sp. coastal & ocean processes; oceanography.

- Nayak, Tapan Kumar, b. 1958, Ph.D. (Michigan State), FNASc, Head, Experimental High Energy Physics & Applications Section, Variable Energy Cyclotron Centre, Kolkata 700 064, Tel. Off. (033) 2318 2311, Res. (033) 2334 8289, Mobile: 98368 93945, Fax (033) 2334 6871, email: nayak@vecc.gov.in, URL: http://nayak.web.cern.ch, sp. nuclear & high energy physics experiment; QCD phase transition & quark gluon plasma; phases of nuclear matter.
- 1989 **Niazi,** Iqbal Ahmad, b. 1928, Ph.D. (McGill), FNASc, Res. D2/2276, Vasant Kunj, New Delhi 110 070, Tel. (011) 2613 2371, Mobile: 98101 78979, email: iqbalaniazi@gmail.com, sp. developmental biology of animals & regeneration.
- 2001 **Nitsure,** Nitin, b. 1957, Ph.D. (Bombay), School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2247, Res. (022) 2280 4751, Fax (022) 2280 4610, email: nitsure@math.tifr.res.in, sp. algebraic geometry.
- Nityanand, Soniya, b. 1962, MD (Lucknow), Ph.D. (Karolinska), FNASc, Head, Department of Hematology, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Rae Bareily Road, Lucknow 226 014, Tel. Off. (0522) 266 8700; (0522) 266 8800, Res. (0522) 278 8587, Mobile: 94150 18833, Fax (0522) 266 8017, email: soniya@sgpgi.ac.in; soniya\_nityanand@yahoo.co.in, sp. immunology; haematology.
- Nityananda, Rajaram, b. 1948, Ph.D. (Bangalore), FNA, FNASc, School of Liberal Studies, Azim Premji University, PES South Campus, Electronic City, Bengaluru 560 100, Tel. Res. (080) 4952 9450, Mobile: 96117 89391, email: rajaram.nityananda@gmail.com, sp. astronomical optics; image processing; statistical problems in physics & astronomy; physics education. Council Service: 1989–94.
- Nori, Madhav Vithal, b. 1949, Ph.D. (Bombay), FNA, Department of Mathematics, University of Chicago, 5734, South University Avenue, Chicago, IL 60637, USA, Tel. Off. (+1-773) 702 7327, Res. (+1-773) 684 1498, Fax (+1-773) 702 9787, email: nori@math.uchicago.edu, sp. algebraic geometry.

- Ogale, Satishchandra Balkrishna, b. 1953, Ph.D. (Pune), FNASc, Chief Scientist & Coordinator, Center of Excellence in Solar Energy, Physical & Materials Chemistry Division, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2260, Res. (020) 2543 5200; (020) 2544 2912, Mobile: 98226 28242, Fax (020) 2590 2636, email: satishogale@gmail.com; sb.ogale@ncl.res.in, sp. nanoscience & nanotechnology; metal oxide thin films & spintronics; dye-sensitized solar cells; solar water splitting, functional carbon for charge storage.
- 2015 **Ojha,** Devendra Kumar, b. 1967, Ph.D. (Strasbourg), Department of Astronomy & Astrophysics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2684, Res. (022) 2280 4969, Mobile: 98672 06969, Fax (022) 2280 4610-11, email: ojha@tifr.res.in, URL: http://web.tifr.res.in/~ojha/, sp. infrared astronomy; star formation & interstellar medium; astronomical instrumentation.
- Padmanaban, Govindarajan, b. 1938, Ph.D. (IISc), FNA, FNASc, FTWAS, INSA Senior Scientist, Department of Biochemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. & Fax (080) 2360 1492; (080) 2293 2540, Res. (080) 2334 2223, email: geepee@biochem.iisc.ernet.in, sp. molecular biology; recombinant DNA; malarial parasite. Council Service: 1986–88, 1992–97; Vice-President: 1992–97.
- Padmanabhan, Kuppuswamy Anantha, b. 1945, Ph.D. & Sc.D. (Cantab), FNASc, FNAE, Research Adviser, TCS; University Chair Professor, School of Engineering Sciences & Technology and Centre for Nanotechnology, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4455, Res. (040) 2385 0814, Fax (040) 2301 2800, Mobile: 80087 77664, email: kapse@uohyd.ernet.in; ananthaster@gmail.com, URL: http://home.iitk.ac.in/~kap, sp. mechanical metallurgy; metal forming; plasticity & superplasticity; nanotechnology.
- Padmanabhan, Thanu, b. 1957, Ph.D. (Bombay), FNA, FNASc, FTWAS, Dean (Academic Programmes), Inter-University Centre for Astronomy & Astrophysics, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4106; (020) 2560 4100, Res. (020) 2569 2922, Fax (020) 2560 4699, email: paddy@iucaa.ernet.in; nabhan@iucaa.ernet.in, URL: www.iucaa.ernet.in/~paddy/, sp. gravitation; quantum theory; cosmology; structure formation. Council Service: 2013-.

- 1979 **Pai,** Mangalore Anantha, b. 1931, Ph.D. (UC Berkeley), FNA, FNAE, FIEEE, Emeritus Professor, Department of Electrical & Computer Engineering, University of Illinois, Urbana, IL 61801, USA, Tel. Off. (+1-217) 344 0977, Mobile: (+1-217) 417 9725, email: mapai@illinois.edu, sp. power systems: stability, control & computation; smart grid.
- Pal, Amlan Jyoti, b. 1960, Ph.D. (Jadavpur), FNAE, Senior Professor & Head, Department of Solid State Physics, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1313, Res. (033) 2416 0502, Mobile: 94330 59564, Fax (033) 2473 2805, email: sspajp@iacs.res.in, URL: http://www.iacs.res.in/ssp/sspajp/, sp. organic electronics; nanophotovoltaics; organic solar cells; device physics; organic spintronics.
- Pal, Arup Kumar, b. 1968, Ph.D. (ISI, Delhi), Statistics & Mathematics Unit, Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110 016, Tel. Off. (011) 4149 3921, Fax (011) 4149 3981, email: arupkpal@gmail.com; arup@isid.ac.in, URL: http://www.isid.ac.in/~arup/, sp. operator algebras; noncommutative geometry; quantum groups.
- Pal, Gaya Prasad, b. 1950, MS (Indore), D.Sc. (S. Gujarat), FNASc, FAMS, FASI Director, Modern Institute of Medical Sciences, Kanadia, Near Bypass Road, Indore 452 016, Tel. Off. (0731) 284 2234-35, Res. (0731) 249 7600, Mobile: 94254 96354, Fax (0731) 288 2700, email: gp\_pal50@rediffmail.com, sp. human anatomy; clinical anatomy; biomechanics of spine.
- 1974 Pal, Manoj Kumar, b. 1932, D.Phil. (Calcutta), FNA, Res. Apartment 1B, 41, Lala Lajpat Rai Sarani, Kolkata 700 020, Tel. (033) 2475 6829, Mobile: 94335 81746, sp. nuclear physics.
- Pal, Sankar Kumar, b. 1950, Ph.D. (Calcutta & London), FNA, FNASc, FNAE, FTWAS, FIEEE, Distinguished Scientist, Indian Statistical Institute, 203, B.T. Road, Kolkata 700 108, Tel. Off. (033) 2575 2041; (033) 2575 2040, Res. (033) 2577 2030; (033) 2577 5099, Mobile: 98311 01500, Fax (033) 2578 8699; (033) 2578 3357, email: sankar@isical.ac.in; sankarpal@yahoo.com, URL: www.isical.ac.in/~sankar, sp. pattern recognition & machine learning; image processing; data mining; soft computing; granular mining; computing with words; web intelligence; bioinformatics.

- 1996 **Pal,** Sourav, b. 1955, Ph.D. (Calcutta), FNASc, FNA, Director, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2600, Res. (020) 2590 2480, Mobile: 98903 35662, Fax (020) 2590 2601, email: s.pal@ncl.res.in, URL: http://www.ncl.res.in/spal, sp. electronic structure theory; *ab initio* quantum chemistry; chemical reactivity; *ab initio* molecular dynamics.
- 1967 **Pal,** Yash, b. 1926, Ph.D. (MIT), FNA, Res. 11B, Super Delux Flats, Sector 15A, Noida 201 301, Tel. (0120) 251 2075, Mobile: 98112 91556, Fax (0120) 251 1256, email: palyash.pal@gmail.com, sp. physics; astrophysics; space technology; communications. Council Service: 1974–76.
- Palaniandavar, Mallayan, b. 1951, Ph.D. (MKU), FNA, Distinguished Visiting Professor, Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7175, Mobile: 94436 44758; 70450 08097, email: palanim51@yahoo.com; palaniandavarm@gmail.com, sp. bioinorganic chemistry; activation of molecular oxygen; functional models for metallo-proteins; interaction of metal complexes with DNA and proteins; metal-based anticancer drugs.
- Palit, Dipak Kumar, b. 1957, Ph.D. (Bombay), FNA, FNASc, Outstanding Scientist & Head, Radiation & Photochemistry Division, Bhabha Atomic Research Centre, Mumbai 400 085, Tel. Off. (022) 2559 5091, Res. (022) 2557 1283, Mobile: 99691 49589; 97570 00353, Fax (022) 2550 5151, email: dkpalit@barc.gov.in; palitdk@gmail.com, sp. ultrafast spectroscopy; photo & radiation chemistry; chemical reaction dynamics in condensed phase.
- 1988 **Panchapakesan,** Natarajan, b. 1933, Ph.D. (Delhi), Res. K-110, Ground Floor, Hauz Khas, New Delhi 110 016, Tel. (011) 2656 1358, Mobile: 98105 86446, email: panchu@bol.net.in; nargispanchu@gmail.com, sp. general relativity; cosmology; astroparticle physics; science education.
- Panda, Dulal, b. 1964, Ph.D. (Jadavpur), FNASc, Department of Biosciences & Bioengineering, Indian Institute of Technology, Mumbai 400 076, Tel. Off. (022) 2576 7838, Res. (022) 2572 0281, Mobile: 98203 91591, Fax (022) 2572 3480, email: panda@ iitb.ac.in, sp. biochemistry; cell biology; biophysics.

- Panda, Subrat Kumar, b. 1954, MD (Path.) (AIIMS), FNA, Department of Pathology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2659 4924; (011) 2659 3493, Res. (011) 2658 8915; (011) 2658 8916, Mobile: 98104 77583, Fax (011) 2658 8663, email: pandask@hotmail.com; subrat@gmail.com, sp. liver pathology; viral hepatitis, molecular biology/virology.
- Pandey, Dhananjai, b. 1952, Ph.D. (Banaras), FNA, FNASc, Director, Indian Institute of Technology, Banaras Hindu University Campus, Varanasi 221 005, Tel. Off. (0542) 236 8106; (0542) 670 2078, Res. (0542) 231 4658, Mobile: 94530 48510, Fax (0542) 236 8428, email: dpandey@bhu.ac.in; dpandey\_bhu@yahoo.co.in, sp. condensed matter physics; materials science; crystallography; structural phase transitions; ferroics & multiferroics.
- Pandey, Ganesh Prasad, b. 1954, Ph.D. (Banaras), FNA, FNASc, Molecular Synthesis Laboratory, Centre of Biomedical Research, Sanjay Gandhi PG Institute of Medical Sciences Campus, Raebareli Road, Lucknow 226 014, Tel. Off. (0522) 266 8985, Mobile: 99701 71802, Fax (0522) 266 8215, email: gp.pandey@cbmr.res.in, sp. organic synthesis.
- Pandey, Prem Chand, b. 1945, Ph.D. (Allahabad), D.Sc (h.c.), FNASc, Emeritus Professor, School of Earth, Ocean & Climate Sciences, Indian Institute of Technology, Samantapuri, Bhubaneswar 751 013, Tel. Off. (0674) 257 6114, Mobile: 87638 65350, email: pcpandey@iitbbs.ac.in; pcpandey45@yahoo.co.in, sp. satellite oceanography; atmospheric sciences; climate change; polar research.
- Pandian, Thavamani Jegajothivel, b. 1939, Ph.D. (Madras), Dr. rer. nat. (Kiel, Germany), D.Sc. (CIFE, Mumbai), FNA, FNASc, FNAAS, FTWAS, Res. 9, Old Natham Road, opp. Balamandiram, Madurai 625 014, Tel. (0452) 264 0139, Mobile: 98421 64130, email: tjpandian16@gmail.com, sp. genetics: aquaculture.
- 2008 **Pandit,** Aniruddha Bhalachandra, b. 1957, Ph.D. (Bombay), FNAE, FNA, FNASc, UGC Research Scientist & Dean, RCRM, Institute of Chemical Technology, N.P. Marg, Matunga, Mumbai 400 019, Tel. Off. (022) 3361 1111-2, Res. (022) 2430 2660, Mobile: 98204 08037, Fax (022) 3361 1020, email: dr.pandit@gmail.com; ab.pandit@ictmumbai.edu.in, sp. design of multiphase reactors; cavitation phenomena; environmental & energy engineering.

- Pandit, Rahul, b. 1956, Ph.D. (Illinois), FNA, Chairman, Division of Physical and Mathematical Sciences and Professor, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2863; (080) 2293 2249, Res. (080) 2664 7689, Mobile: 98452 30684, Fax (080) 2360 2602, email: rahul@physics.iisc. ernet.in, sp. statistical mechanics of phase transitions; condensed matter theory; spatiotemporal chaos and turbulence in fluids, plasmas and in mathematical models for cardiac tissue.
- 2005 **Pandita,** Pran Nath, b. 1949, Ph.D. (Kashmir), FNA, FNASc, Res. No. 10, Lane 2, Bharat Nagar, Bantalab, Jammu 181 123, email: pandita@iucaa.ernet.in, sp. theoretical high energy physics; astroparticle physics.
- Pandya, Sudhir Pradyumna, b. 1928, Ph.D. (Rochester), FNA, Res. 26, Mithila Society, opp. Shreyas School, Ahmedabad 380 015, Tel. (079) 6549 3444, Mobile: 99093 78130, email: sudhir.pandya@yahoo.com, sp. nuclear physics.
- 2012 **Pani,** Amiya Kumar, b. 1957, Ph.D. (IIT, Kanpur), FNASc, Institute Chair Professor, Department of Mathematics, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7481, Res. (022) 2576 8481, Fax (022) 2572 3480, Mobile: 97696 97481, email: akp@math.iitb.ac.in, sp. numerical analysis; partial differential equations; industrial mathematics.
- 2009 **Parameswaran,** Aryampilly Jayanthan, b. 1962, Ph.D. (Bombay), School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2222, Fax (022) 2280 4610, Mobile: 94464 29164; 90041 99416, email:param@math.tifr.res.in; param\_aj@yahoo.com, sp. algebraic geometry: singularity theory; vector bundles.
- Paranjape, Kapil Hari, b. 1960, Ph.D. (Bombay), FNA, FNASc, Indian Institute of Science Education and Research, Knowledge City, Sector 81, Manauli P.O., SAS Nagar 140 306, Tel. Off. (0172) 259 3110, Res. (0172) 224 0019, Fax (0172) 224 0266, Mobile: 99152 69019, email: kapil@iisermohali.ac.in, URL: www.imsc.res.in/~kapil, sp. algebraic geometry; topology; differential geometry.
- 1975 **Paranjpe,** Pramod Anand, b. 1934, D.Sc. Tech. (ETH, Zurich), Res. Bahaar, 5 Hindustan Estate, Road No. 13, Kalyaninagar, Pune 411 006, Tel. (020) 2668 0255, email: pramwana@gmail.com, sp. turbomachinery; energy/propulsion systems.

- 1988 **Parimala,** Raman, b. 1948, Ph.D. (Bombay), FNA, FNASc, Arts and Sciences Distinguished Professor, Department of Mathematics & Computer Science, Emory University, 400 Dowman Drive W 401, Atlanta, GA 30322, USA, Tel. Off. (+1-404) 727 7577, Res. (+1-404) 444 8870, Fax (+1-404) 727 5611, email: parimala@ mathcs.emory.edu, sp. algebra.
- 2008 **Parnaik,** Veena Krishnaji, b. 1953, Ph.D. (Ohio State), FNA, Chief Scientist, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2614, Res. (040) 2701 9882, Mobile: 98850 86220, Fax (040) 2716 0591, email: veenap@ccmb.res.in, sp. cell biology; molecular biology; lamins and nuclear organisation.
- 1974 **Parthasarathy,** Kalyanapuram Rangachari, b. 1936, Ph.D. (Calcutta), FNA, FNASc, FTWAS, Emeritus Professor, Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110 016, Tel. Off. (011) 4149 3923; (011) 4149 3901, Res. (011) 2279 6447, Fax (011) 4149 3981, email: krp@isid.ac.in, sp. probability theory; group representations; quantum probability; quantum computing & information.
- Parthasarathy, Rajagopalan, b. 1945, Ph.D. (Bombay), D.Sc. (h.c.), FNA, FNASc, Raja Ramanna Fellow, Department of Mathematics, Bharathiar University, Coimbatore; Res. Villa 50-A, Nananani Homes, Ananya Shelter Phase-I, Narasipuram Road, Thondamuthur, Coimbatore 641 109, Tel. (0422) 297 6150, Mobile: 95002 33213, email: sarathy.math.tifr@gmail.com, sp. representations of semi-simple Lie groups; topological dynamical systems.
- Parthasarathy, Thiruvenkatachari, b. 1941, Ph.D. (ISI, Calcutta), FNA, INSA Senior Scientist, SQC/OR Unit, Indian Statistical Institute, 37/110, Nelson Manikham Road, Chennai 600 029, Tel. Off. (044) 2374 0612; (044) 2374 0218, Res. (044) 2224 2133, Fax (044) 2374 0256, email: pacha14@yahoo.com, sp. mathematical theory of games; operations research; global univalence.
- Parulkar, Gurukumar Bhalchandra, b. 1931, MS (Mumbai), Consultant, Cardiovascular Surgery, Heart Institute, 95, August Kranti Marg, Mumbai 400 036, Tel. Off. (022) 2380 3336; (022) 2653 4444, Res. (022) 2353 6546, Fax (022) 2653 4242, email: gurukumar@gmail.com, sp. open heart surgery; extracorporeal circulation; coronary bypass surgery; vascular surgery.

- 1986 **Passi,** Inder Bir Singh, b. 1939, Ph.D. (Exon), FNA, FNASc, Emeritus Professor, Department of Mathematics, Panjab University, Chandigarh & Honorary Professor, IISER, Mohali; Res. 381, Sector 38A, Chandigarh 160 014, Tel. Off. (0172) 254 1132, Res. (0172) 466 8381, Mobile: 98724 48638, email: ibspassi@ yahoo.co.in; passi@pu.ac.in, sp. algebra.
- 1988 **Pasupathy,** Jagadisan, b. 1940, Ph.D. (Rochester), Res. 3286, 12th Main Road, HAL II Stage, Bengaluru 560 008, Tel. (080) 2525 1592, Mobile: 99028 59450, email: jphome@gmail.com, sp. theoretical physics.
- Pathak, Kare Narain, b. 1941, Ph.D. (IIT, Kanpur), FNASc, FNA, Professor Emeritus & INSA Senior Scientist, Panjab University, Chandigarh; Res. 382, Sector 38A, Chandigarh 160 014, Tel. Off. (0172) 253 4467, Res. (0172) 269 9944, Mobile: 99883 60009, Fax (0172) 278 3336, email: pathak@pu.ac.in; knpathak26@gmail.com, sp. condensed matter physics.
- Pathak, Tanmaya, b. 1958, Ph.D. (Uppsala), Department of Chemistry, Indian Institute of Technology, Kharagpur 721 302, Tel. Off. (03222) 28 3342, Res. (03222) 28 3343; (03222) 27 9901, Mobile: 94347 15239, Fax (03222) 28 2252, email: tpathak@chem.iitkgp.ernet.in, URL: http://www.chem.iitkgp.ernet.in/faculty/PT/index.php, sp. synthetic organic chemistry; nucleoside & carbohydrate modification; enzyme inhibition
- Pati, Arun Kumar, b. 1966, Ph.D. (Mumbai), FNASc, Quantum Information and Computation Group, Physics Division, Harish Chandra Research Institute, Chhatnag Road, Jhunsi, Allahabad 211 019, Tel Off. (0532) 227 4391, Mobile: 87566 12314, Fax (0532) 256 9576; (0532) 256 7444, email: akpati@hri.res.in, URL: www.hri.res.in/~akpati/, sp. quantum information theory; quantum computing; foundations of quantum theory.
- Pati, Swapan Kumar, b. 1968, Ph.D. (IISc), FNASc, FTWAS, Theoretical Sciences Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2839, Res. (080) 2363 5445, Mobile: 94485 60474, Fax (080) 2208 2767, email: pati@jncasr.ac.in; swapan.jnc@gmail.com, URL: www.jncasr.ac.in/pati/, sp. quantum magnetism; generalized charge transfer; linear & nonlinear optics; optical lattice; catalysis; electrochemical cells; biological matter; quantum methods development.

- Patnaik, Lalit Mohan, b. 1946, Ph.D. & D.Sc. (IISc), FNA, FNASc, FNAE, FTWAS, FIEEE, Honorary Professor, Centre for Electronics Design and Technology, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2520, Res. (080) 2360 2635, email: patnaiklm@yahoo.com; lalitblr@gmail.com, URL: http://www.lmpatnaik.in, sp. computer science & engineering; information technology; electronics.
- Patra, Amit Kumar, b. 1966, Ph.D. (S.V. Univ.), Head, Ionospheric & Space Physics Group, National Atmospheric Research Laboratory, Post Box No 123, Tirupati 517 502, Tel. Off. (08585) 27 2010, Res. (0877) 224 8805, Mobile: 99596 71098, Fax (08585) 27 2018, email: akpatra@narl.gov.in, sp. ionospheric electrodynamics & plasma instabilities; space weather; radar probing techniques.
- 1995 **Patwardhan,** Vilas Shridhar, b. 1947, Ph.D. (Purdue), FNAE, Res. 3, Vibha Heights, Sanewadi, Baner Road, Aundh, Pune 411 007, Tel. Off. (020) 2588 8126, Res. (020) 2588 2058, email: vspatw@vsnl.com, sp. computer simulation; mathematical modelling; multiphase reactions; software development; spreadsheet programming.
- 2000 Pental, Deepak, b. 1951, Ph.D. (Rutgers), D.Sc. (h.c. Nottingham), FNA, FNASc, FNAAS, Director, Centre for Genetic Manipulation of Crop Plants, University of Delhi South Campus, New Delhi 110 021, Tel. Off. (011) 2411 2609; (011) 2411 5203, Res. (011) 2411 2768, Fax (011) 2411 6392, email: dpental@gmail.com, sp. transgenic crops; breeding of oilseed mustard.
- Periasamy, Mariappan, b. 1952, Ph.D. (IISc), FNA, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4814, Res. (040) 2301 0904, Mobile: 99490 93904, Fax (040) 2301 2460, email: mpsc@uohyd.ernet.in, sp. organic chemistry; organometallics; chiral reagents; renewable resources development.
- Periasamy, Nallagounder, b. 1946, Ph.D. (Bombay), FNA, FNASc, Res. No. 303, Golf Manor, NAL Wind Tunnel Road, Murugeshpalya, Bengaluru 560 017, Mobile: 97419 12592, email: peri46@gmail.com, sp. fluorescence spectroscopy & applications; physical chemistry; materials chemistry; organic electronics.

- Pillai, Madhavan Radhakrishna, b. 1960, FRC Path. (London), Ph.D. (Kerala), FNASc, FAMS, Director, Rajiv Gandhi Centre for Biotechnology, Jagathi, Thiruvananthapuram 695 014, Tel. Off. (0471) 234 7973; (0471) 234 1716, Res. (0471) 273 3819, Mobile: 94471 45776; 99951 99993, Fax (0471) 234 9303, email: mrpillai@rgcb.res.in, sp. tumour biology; tumour virology.
- Pillai, Valliyil Narayanan Rajasekharan, b. 1949, Ph.D. (Kerala), Principal Secretary (S&T), Government of Kerala; Executive Vice-President, Kerala State Council for Science, Technology & Environment, Sasthra Bhavan, Pattom P.O., Thiruvananthapuram 695 004, Tel. Off. (0471) 254 3557, Res. (0471) 236 3035, Mobile: 94464 30555, Fax (0471) 254 0085, email: rajasekharpillai@ gmail.com; evp@kscste.org, sp. bio-organic chemistry; synthetic organic chemistry; macro-molecular science.
- Pitchappan, Ramaswamy, b. 1946, Ph.D. (MKU), FAMS, Director-Research, Chettinad Academy of Research & Education, Chettinad Health City, OMR Road, Kelambakkam, Chennai 603 103, Tel. Off. (044) 4742 9040; (044) 4742 9050, Res. (044) 4742 9510; (0452) 256 9889, Mobile: 97104 01000; 94430 66798, Fax (044) 4741 1011, email: pitchappanrm@yahoo.co.uk, URL: http://182.73.176.163/chc/scientists/pitchappan.pdf, sp. human immunogenetics; human genomics; immunology of infectious diseases; transplantation immunology.
- 1986 **Pitke,** Madhukar Vishwanath, b. 1936, Ph.D. (Bombay), FIEEE, Res. 002, Buniyad, Yashodham A2-15, Goregaon (East), Mumbai 400 063, Tel. (022) 2841 5252, Mobile: 99670 31266, Fax (022) 2843 1266, email: pitkemv@gmail.com, sp. electronics; telecommunication & information technology; technology transfer; wireless communication.
- Podile, Appa Rao, b. 1960, Ph.D. (Sardar Patel), FNASc, FNAAS, Department of Plant Sciences, School of Life Sciences, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4503, Res. (040) 2301 0154, Mobile: 94907 49922, Fax (040) 2301 0120, email: arpsl@uohyd.ernet.in; podilerao@gmail.com, URL: http://uohyd.ac.in/index.php/admissions/112-academics/schools-of-study/school-of-life-sciences/dept-plant-sciences/490-apparao-p, sp. molecular plant microbe interactions; microbial biotechnology.

- Porsezian, Kuppuswamy, b. 1963, Ph.D. (Bharathidasan), FNASc, Department of Physics & Co-ordinator, Department of Astrophysics, Pondicherry University, Kalapet, Puducherry 605 014, Tel. Off. (0413) 265 4403, Res. (0413) 235 4518, Mobile: 94425 88553, Fax (0413) 265 5183, email: ponz.phy@pondiuni. edu.in; ponzsol@yahoo.com, sp. solitons; modulational instability; nonlinear fibre optics; partial differential equations.
- Pradeep, Thalappil, b. 1963, Ph.D. (IISc), FNAE, FRSC, Department of Chemistry, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4208, Res. (044) 2257 6208, Mobile: 94455 60767, Fax (044) 2257 0509, email: pradeep@iitm.ac.in, URL: http://www.dstuns.iitm.ac.in/pradeep-research-group.php, sp. molecular & nanoscale materials; nanoscience & nanotechnology; molecular surfaces; ion scattering; instrumentation; water purification.
- Pradhan, Trilochan, b. 1929, Ph.D. (Chicago), Emeritus Professor, Institute of Physics, Sachivalaya Marg, Bhubaneswar 751 005, Tel. Off. (0674) 230 1058, Res. (0674) 230 0962, Fax (0674) 230 0142, email: pradhan@iopb.res.in, sp. elementary particles & high energy physics; plasma physics; atomic physics.
- Prakasa Rao, Bhagavatula Lakshmi Surya, b. 1942, Ph.D. (Michigan State), FNA, FNASc, Ramanujan Chair Professor, CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, University of Hyderabad Campus, Hyderabad 500 046, Tel. Off. (040) 2301 3118, Res. (040) 2766 0162, Mobile: 99491 85041, email: blsprao@gmail.com, URL: http://www.crraoaimscs.org/faculty/prakasa-rao/, sp. statistics.
- Prakash, Vishweshwaraiah, b. 1951, Ph.D. (Mysore), FNASc, FNAE, FNAAS, FRSC, Distinguished Scientist of CSIR India; Honorary Director of Research, Innovation & Development, JSS MVP, JSS Technical Institutions Complex, Mysore 570 006, Tel. Off. (0821) 425 7125; (0821) 254 8307, Res. (0821) 251 0054, Fax (0821) 254 3411, email: prakashvish@gmail.com, sp. physical biochemistry; chemistry of macro-molecules; biophysics of proteins; enzymes & thermodynamics; food chemistry; food biotechnology; nutrition and food science; nutraceuticals; ayurceuticals & innovation.

- Prasad, Bhagavatula Lakshmi Vara, b. 1969, Ph.D. (Hyderabad), Physical/Materials Chemistry Division, National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2013, Res. (020) 2588 4563, Mobile: 94220 31299, Fax (020) 2590 2636, email: pl.bhagavatula@ncl.res.in, URL: http://academic.ncl.res.in/pl.bhagavatula/prasad, sp. materials chemistry; self-assembly; nanoparticle synthesis.
- Prasad, Dipendra, b. 1960, Ph.D. (Harvard), FNA, FNASc, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2236, Res. (022) 2278 3236, Mobile: 99309 88824, Fax (022) 2280 4610, email: dprasad@math.tifr.res.in; dipendra\_pd@yahoo.com, sp. automorphic forms; number theory.
- Prasad, Gopal, b. 1945, Ph.D. (Bombay), FNA, Raoul Bott Professor of Mathematics, The University of Michigan, Ann Arbor, Michigan 48109-1043, USA, Tel. Off. (+1-734) 764 0372, Res. (+1-734) 585 5487, Fax (+1-734) 763 0937, email: gprasad@umich.edu, sp. Lie groups; algebraic groups; arithmetic groups.
- Prasad, Guntupalli Veera Raghavendra, b. 1958, Ph.D. (Panjab), FNA, FNASc, FTWAS, Department of Geology, Centre for Advanced Studies, University of Delhi, Delhi 110 007, Tel. Off. (011) 2766 7073, Mobile: 98682 07140, email: pguntupalli@rediffmail.com; guntupalli.vrprasad@gmail.com, sp. vertebrate palaeontology: evolution of mesozoic mammals in India; cretaceous palaeo-biogeography of India.
- Prasad, Kavirayani Ramakrishna, b. 1969, Ph.D. (Pune), Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2524, Res. (080) 2360 5415, Mobile: 94484 73015, Fax (080) 2360 0529, email: prasad@orgchem.iisc.ernet.in, URL: http://orgchem.iisc.ernet.in/faculty/prasad/prasad.html, sp. organic synthesis; total synthesis of natural products; synthetic strategies in organic chemistry.
- Prasad, Phoolan, b. 1944, Ph.D. (IISc), FNA, FNASc, NASI Senior Scientist & Platinum Jubilee Fellow, Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2265; (080) 2293 2267/223, Res. (080) 2337 1039, Mobile: 94484 61299, Fax (080) 2360 0146, email: prasad@math. iisc.ernet.in, URL: http://math.iisc.ernet.in/~prasad/, sp. theory of wave-propagation; partial differential equations; fluid mechanics.

- Prasad, Rajendra, b. 1947, Ph.D. (Agra), FNASc, FNA, School of Life Sciences, Jawaharlal Nehru University, New Mehrauli Road, New Delhi 110 067, Tel. Off. (011) 2670 4509, Res. (0124) 257 3443, Mobile: 98109 74443, Fax (011) 2674 1081, email: rp47@ mail.jnu.ac.in; rp47jnu@gmail.com, URL: www.jnu.ac.in/faculty/rp/, sp. membrane biology; yeast genetics & molecular biology; medical mycology.
- Prasad, Surendra, b. 1948, Ph.D. (IIT, Delhi), FNA, FNAE, FNASc, Emeritus Professor, Department of Electrical Engineering, Indian Institute of Technology, Hauz Khas, New Delhi 110 016, Tel. Off. (011) 2659 6201; (011) 2659 1115, Res. (0124) 406 7489, Fax (011) 2658 2659, email: sprasad@ee.iitd.ac.in, sp. signal processing; communication theory & systems; speech processing. Council Service: 2007–12.
- 1991 **Prasad,** Yellapregada Venkata Rama Krishna, b. 1944, Ph.D. (IISc), FNA, Res. B/2, Hospital Extension, Vinayaka Nagar, Hebbal, Bengaluru 560 024, Tel. (080) 2333 0673, email: prasad@processingmaps.com; prasad\_yvrk@hotmail.com, sp. deformation processing; process modelling; deterministic chaos; microstructural control.
- 1994 **Prasada Rao,** Turaga Sundara Rama, b. 1939, Ph.D. (Andhra), FNAE, Res. SFS Flat, No. 600, DDA/HIG Flats, Sector 13, Phase 2, Dwaraka, New Delhi 110 045, Mobile: 98103 38091, email: tsrpr@hotmail.com, sp. petroleum refining & heterogeneous catalysis.
- Prathap, Gangan, b. 1951, Ph.D. (IIT, Chennai), FNA, Outstanding Scientist, CSIR National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram 695 019, Tel. Off. (0471) 251 5268, Res. (0471) 271 1956, email: gp@niist.res.in, sp. structural mechanics; finite element method; composite materials; information science.
- 2006 **Puri,** Sanjay, b. 1961, Ph.D. (Illinois), FNA, School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2670 4634, Res. (011) 2674 1084, Mobile: 98185 52477, Fax (011) 2619 4137, email: purijnu@gmail.com, URL: www.jnu.ac.in/Faculty/spuri, sp. statistical physics; condensed matter physics; nonlinear dynamics.

- **Purnachandra Rao,** Venigalla, b. 1955, Ph.D. (Andhra), Scientist, Geological Oceanography Division, CSIR National Institute of Oceanography, Dona Paula 403 004, Tel. Off. (0832) 245 0505, Res. (0832) 245 3471, Mobile: 94224 16008, Fax (0832) 245 0602, email: vprao@nio.org, sp. marine geology; authigenic minerals; palaeo-sea-levels; palaeoclimate.
- **Qasim,** Syed Zahoor, b. 1926, D.Sc. (Wales), FNA, FNAAS, FTWAS, Chairman, Centre for Ocean and Environmental Studies, A-2 (Basement), East of Kailash, New Delhi 110 065, Tel. Off. (011) 4607 8340, Res. (011) 2433 7626, email: zqasim@hotmail.com, sp. oceanography. **Council Service**: 1977–79.
- **Radhakrishna,** Tallavajhala, b. 1954, Ph.D. (Andhra), Scientist, Centre for Earth Science Studies, Akkulam, Thiruvananthapuram 695 031, Tel. Off. (0471) 251 1657, Res. (0471) 272 3843, Fax (0471) 244 2280, email: tradha1@rediffmail.com, sp. geochemistry & igneous petrology; palaeomagnetism; geodynamics.
- **Radhakrishnan,** Jaikumar, b. 1964, Ph.D. (Rutgers), FNA, School of Technology & Computer Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2311, Res. (022) 2278 3311, Fax (022) 2280 4610, email: jaikumar@tifr.res.in, sp. algorithms; computational complexity; information theory; combinatorics; quantum computing.
- 2004 Radhakrishnan, Thavarool Puthiyedath, b. 1960, Ph.D. (Princeton), FNA, FNASc, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4827; (040) 2301 1068, Res. (040) 2980 2989, Fax (040) 2301 2460, email: tpr@uohyd.ac.in; tprsc@uohyd.ernet.in, URL: http://chemistry.uohyd.ac.in/~tpr/, sp. materials chemistry.
- **Raghava,** Gajendra Pal Singh, b. 1963, Ph.D. (Chandigarh), FNASc, Scientist & Head, Bioinformatics Centre, CSIR Institute of Microbial Technology, Sector-39A, Chandigarh 160 036, Tel. Off. (0172) 269 0557, Fax (0172) 269 0632, email: raghava@imtech.res.in, URL: http://www.imtech.res.in/raghava/, sp. bioinformatics; genome annotation; functional annotation of proteomes; searching drug targets; subunit vaccine design.

- **Raghavan,** Komaranapuram Navaneetham, b. 1964, Ph.D. (Purdue), Professor H, Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3264, Res. (044) 2844 1505, Mobile: 94456 31505, Fax (044) 2254 1586, email: knr@imsc.res.in; knr.imsc@gmail.com, URL: http://www.imsc.res.in/~knr/, sp. representation theory.
- **Raghavarao**, Karumanchi Srisaila Mallikarjuna Srinivasa, b. 1960, Ph.D (Bombay), FNAE, FNAAS, Chief Scientist, Department of Food Engineering, CSIR Central Food Technological Research Institute, Mysore 570 020, Tel. Off. (0821) 251 2520, Res. (0821) 234 0988, Mobile: 94835 40988, Fax (0821) 251 7233, email: raghavarao@cftri.res.in, sp. food engineering; biotechnology; chemical engineering.
- **Raghavendra,** Agepati Srinivasa, b. 1950, Ph.D. (SV Univ.), FNA, FNASc, FNAAS, FTWAS, Department of Plant Sciences, School of Life Sciences, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2301 0630, Res. (040) 6776 6124, Mobile: 98491 07190, Fax (040) 2301 0120, email: asrsl@uohyd.ernet.in; as\_raghavendra@yahoo.com, sp. plant physiology; plant biochemistry; plant metabolomics. **Council Service**: 2010–12.
- **Raghunathan,** Madabusi Santanam, b. 1941, Ph.D. (Bombay), FNA, FNASc, FTWAS, FRS, NASI Platinum Jubilee Professor & Distinguished Guest Professor, Department of Mathematics, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 9453, Res. (022) 2550 4766, Mobile: 98690 13889, Fax (022) 2572 3480, email: msr@math.iitb.ac.in, sp. Lie groups & algebraic groups. **Council Service:** 1983–91.
- **Raghunathan,** Velayudhan Anandavally, b. 1960, Ph.D. (Mysore), Raman Research Institute, C.V. Raman Avenue, Sadashivanagar, Bengaluru 560 080, Tel. Off. 94808 36154, Res. (080) 2344 8940, Fax (080) 2361 0492, email: varaghu@rri.res.in, sp. soft matter physics; scattering techniques.
- **Rai,** Shyam Sundar, b. 1954, Ph.D. (ISM, Dhanbad), FNA, FNASc, Co-ordinator, Earth and Climate Science, Indian Institute of Science Education & Research, Dr Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 8255, Mobile: 98903 22705, Fax (020) 2586 5315, email: shyamsrai@iiserpune.ac.in; shyamsrai@gmail.com, URL: http://www.iiserpune.ac.in/~shyamsrai/, sp. seismology & electromagnetic exploration. **Council Service:** 2013–.

- **Rai Choudhuri,** Arnab, b. 1956, Ph.D. (Chicago), FNASc, FNA, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 3481, Res. (080) 2360 3664, Fax (080) 2360 2602, email: arnab@physics.iisc.ernet.in, sp. theoretical astrophysics; magnetohydrodynamics; solar physics.
- **Rai Choudhury,** Sudhendu, b. 1941, Ph.D. (Delhi), Indian Institute of Science Education & Research, Transit Campus: ITI (Gas Rahat) Building, Govindapura, Bhopal 462 023, Tel. Off. (0755) 409 2319, Mobile: 90394 21948, Fax (0755) 409 2392, email: src@iiserbhopal.ac.in; srai.choudhury@gmail.com, sp. particle physics.
- **Raja Gopal,** Erode Subramanian, b. 1936, Ph.D. (IISc), D.Sc. (h.c.), FNA, FNASc, Emeritus Scientist, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2529, Res. (080) 2334 7449, Mobile: 98800 93745, Fax (080) 2360 2602, email: gopal@physics.iisc.ernet.in, sp. solid state physics; statistical physics; instrumentation.
- **Rajagopalan,** Sundarapandium Rama, b. 1931, Ph.D. (Madras), Res. B4/1, Vijay Kiran Apartments, 32, Victoria Road, Bengaluru 560 047, Tel. (080) 2557 6755, Mobile: 94484 67655, sp. electrochemistry.
- Rajamani, Vedharaman, b. 1944, Ph.D. (SUNY, Stony Brook), FNA, Emeritus Professor, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi; Res. 1209, Sector A, Pocket B, Vasant Kunj, New Delhi 110 070, Tel. Res. (011) 2689 3159, Mobile: 99101 81299, email: rajav\_46@yahoo.com, sp. geochemistry; rock weathering; soil/sediment genesis; farmland geology.
- **Rajan,** Conjeeveram Srirangachari, b. 1961, Ph.D. (Bombay), FNA, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2665, Res. (022) 2280 4643, Fax (022) 2280 4610, email: rajan@math.tifr.res.in, sp. automorphic forms; arithmetic geometry; representation theory.
- **Rajappa,** Srinivasachari, b. 1934, Ph.D. (Madras), FNA, Res. B-1, Melody Apartments, Plot No. 12, ICS Colony, Pune 411 007, Tel. (020) 2553 6395, Mobile: 98901 47478, email: p\_rajappa@vsnl.com, sp. synthetic organic chemistry.

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- **Rajaraman,** Vaidyeswaran, b. 1933, S.M. (MIT), Ph.D. (Wisconsin), D.Sc. (h.c.), FNA, FNASc, FNAE, Honorary Professor, Supercomputer Education & Research Centre, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0811, Res. (080) 2341 9672, Fax (080) 2360 0805, email: rajaram@serc.iisc.ernet.in, URL: www.serc.iisc.ernet.in/~rajaram/, sp. computer science; information systems design.
- **Rajasekaran,** Guruswamy, b. 1936, Ph.D. (Chicago), FNA, FNASc, Adjunct Professor, Chennai Mathematical Institute, Chennai, Tel. Off. (044) 2747 0228; Emeritus Professor, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3206, Res. (044) 2441 3395, Fax (044) 2254 1586, email: graj@imsc.res.in, sp. quantum field theory; high energy physics.
- **Rajasekharan,** Ram, b. 1960, Ph.D. (IISc), FNASc, FNAAS, FNA, JC Bose National Fellow, Director, CSIR Central Food Technological Research Institute, Mysore 570 020, Tel. Off. (0821) 251 7760, Fax (0821) 251 6308, email: director@cftri.com; director@cftri.res.in, sp. fats & oils metabolism; plant biotechnology.
- 2012 Rajeevan, Madhavan Nair, b. 1961, Ph.D. (Pune), Scientist G, Ministry of Earth Sciences, Prithvi Bhavan, Mausam Bhavan Campus, Lodi Road, New Delhi 110 003, Tel. Off. (011) 2466 9541, Mobile: 85059 02700, Fax (011) 2462 9779, email: rajeevan61@ yahoo.co.in; mn.rajeevan@nic.in, sp. climate variability & change; monsoon prediction.
- **Rajshekhar,** Vedantam, b. 1959, M.Ch. (Vellore), FAMS, Department of Neurological Sciences, Christian Medical College, Vellore 632 004, Tel. Off. (0416) 228 2767, Res. (0416) 228 4214, Mobile: 98947 74423, Fax (0416) 223 2103, email: rajshekhar@cmcvellore.ac.in, sp. neurosurgery; cysticercosis, cervical spine surgery.

- **Raju,** Trichur Ramaswamy, b. 1952, Ph.D. (ANU), Senior Professor & Head, Department of Neurophysiology, National Institute of Mental Health & Neurosciences, P.B. No. 2900, Bengaluru 560 029, Tel. Off. (080) 2699 5168, Res. (080) 2539 2148, Mobile: 99802 30115, Fax (080) 2656 4830, email: trraju@nimhans.kar.nic.in; trraju.nimhans@gmail.com, sp. developmental neuroscience; neurodegeneration; neuronal plasticity.
- **Ram Sagar,** b. 1952, Ph.D. (Gorakhpur), FNASc, NASI Senior Scientist, Indian Institute of Astrophysics, Sarjapur Road, Koramangala, Bengaluru 560 035, Tel. Off. (080) 2254 1221, Res. (080) 2571 1283; (080) 2571 4989, Mobile: 98864 43436, email: ram\_sagar0@yahoo.co.in; ramsagar@iiap.res.in sp. astronomy & astrophysics; high energy physics.
- 1969 Rama, b. 1929, Ph.D. (Bombay), FNA, FNAAS, Res. Y-4, Sector 9, CBD, Navi Mumbai 400 614, Tel. (022) 2757 0081, email: rama139@yahoo.co.in, sp. isotope hydrology.
- **Rama Rao,** Alla Venkata, b. 1935, Ph.D. (Tech.) (Mumbai), D.Sc. (Mumbai), FNA, FNASc, FTWAS, Chairman & Managing Director, AVRA Laboratories Private Limited, AVRA House, 7-102/54, Sai Enclave, Habsiguda, Hyderabad 500 007, Tel. Off. (040) 2717 8568; (040) 2717 8569, Res. (040) 2717 3360, Mobile: 98481 35163, Fax (040) 2717 5605, email: ramarao@avralab.com, URL: www.avralab.com, sp. organic chemistry; medicinal chemistry; drug technology.
- **Ramachandran,** Arcot, b. 1923, Ph.D. (Purdue), D.Sc. (h.c.), D.lng. (h.c.), FNA, FNAE, Res. No. 3, Crescent Road, High Grounds, Bengaluru 560 001, Tel. & Fax (080) 2225 5780, email: arcotsusila@gmail.com, sp. energy; heat; mass transfer.
- **Ramachandran,** Janakiraman, b. 1935, Ph.D. (UC, Berkeley), Chairman, Gangagen Biotechnologies Private Limited, No. 12, 5th Cross, Raghavendra Layout, Tumkur Road, Yeshwanthpur, Bengaluru 560 022, Tel. Off. (080) 4062 1300-28, Res. (080) 2279 5675, Mobile: 99007 04836, Fax (080) 4062 1329, email: jram@gangagen.com, sp. biochemistry; organic chemistry; molecular biology.
- **Ramachandran,** Raghavan, b. 1940, Ph.D. (Chicago), FNASc, Res. Flat 12, Khagol Society, Panchavati, Pashan, Pune 411 008, Tel. (020) 6607 5892, Mobile: 94220 04597, email: rr\_1940@ yahoo.co.in; rr@imsc.res.in, sp. particle physics.

- 1974 **Ramachandran,** Sundaresan, b. 1930, D.Sc. (MIT), Res. Vidya Theertha Kripa, No. 1, Siva Sundar Avenue, Thiruvanmiyur, Chennai 600 041, Tel. (044) 2441 0185, email: sram@ureach.com, sp. alloy & stainless steel making; process metallurgical design & development.
- 1998 **Ramadas,** Trivandrum Ramakrishnan, b. 1955, Ph.D. (Bombay), Chennai Mathematical Institute, H1, SIPCOT IT Park, Siruseri, Kelambakkam, Chennai 603 103, email: ramadas@cmi.ac.in; ramadas@ictp.it, sp. geometry; mathematical physics.
- 2010 **Ramaiah,** Danaboyina, b. 1958, Ph.D. (IIT, Kanpur), Director, CSIR North East Institute of Science and Technology, Jorhat, Assam 785 006, Tel. Off. (0376) 237 0012, Res (0376) 237 0105, Mobile: 94354 99986; 94475 86261, Fax (0376) 237 0011, email: rama@rrljorhat.res.in; d.ramaiah@gmail.com, URL: http://www.niist.res.in/english/scientists/ramaiah-d-/personal.html, sp. bioorganic chemistry; photobiology; biophysical chemistry; organic photochemistry.
- 2006 **Ramakrishna,** Balakrishnan Siddartha, b. 1952, MD, DM, Ph.D. (Madras), FNA, FAMS, Director, Insitute of Gastroenterology, SRM Institutes for Medical Science, Vadapalani, Chennai; Res. 235 Ring Road, Christian Medical College Campus, Vellore 632 002, Tel. Off. (044) 4396 9995, Res. (0416) 228 4233, Mobile: 99946 14890, Fax (0416) 228 2486, email: wurama@hotmail.com, sp. gastroenterology; diarrhoeal disease; inflammatory bowel disease; gastrointestinal microbiota; stem cells.
- 1990 **Ramakrishnan,** Chandrasekharan, b. 1939, Ph.D. (Madras), FNA, Res. Kausthubam, 212, 7th Cross, 6th Main, Tata Nagar, Bengaluru 560 092, Tel. (080) 2351 7566, Mobile: 98457 52493, email: ramkisak@yahoo.co.in; ramkicyc@gmail.com, sp. molecular biophysics; protein structure; conformation & analysis of data.
- 1994 **Ramakrishnan,** Moni, b. 1940, Ph.D. (IISc), Res. Flat No. 8, Manipallavam Apartments, 29/30, Balakrishnan Road, Valmiki Nagar, Thiruvanmiyur, Chennai 600 041, Tel. (044) 2457 1068, Mobile: 99401 34126, email: mramkris@gmail.com; emarkay1@hotmail.com, sp. precambrian geology; geochemistry; petrology; geochronology.

- **Ramakrishnan,** Palayanoor Sivaswamy, b. 1936, Ph.D. (Banaras), FNA, FNASc, FTWAS, INSA Honorary Scientist, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2670 4326, Res. (0124) 408 5970, Mobile: 99585 14140, Fax (011) 2674 1262, email: krishnanpoonam@gmail.com, sp. socio-ecological systems; environment & sustainable development.
- **Ramakrishnan,** Srinivasan, b. 1956, Ph.D. (Bombay), Department of Condensed Matter & Materials Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2257; (022) 2278 2410, Res. (022) 2280 4628, Mobile: 98672 30590, Fax (022) 2280 4610–1, email: ramky@tifr.res.in, sp. low temperature physics.
- **Ramakrishnan,** Subramaniam, b. 1960, Ph.D. (Massachusetts), Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2744, Res. (080) 2360 8794, Fax (080) 2360 1552, email: raman@ipc.iisc.ernet.in, URL: http://ipc.iisc.ernet.in/~raman/index.htm, sp. polymer synthesis; polymer folding & assembly; hyperbranched polymers; polymerizable surfactants.
- **Ramakrishnan,** Tiruppattur Venkatachalamurti, b. 1941, Ph.D. (Columbia), FNA, FNASc, FTWAS, FRS, Emeritus Professor, Department of Physics, Banaras Hindu University, Varanasi 221 005, Tel. Off. (0542) 230 7327, Res. (0542) 236 7008, Mobile: 94483 63379, Fax (0542) 236 8468; Distinguished Associate, Centre for Condensed Matter Theory, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2581; (080) 2360 0228, email: tvrama2002@yahoo.co.in; tvrama@bhu.ac.in; tvrama@physics.iisc.ernet.in, sp. condensed matter physics; statistical mechanics. **Council Service:** 2004–09; President: 2004–06.
- **Ramamritham,** Krithivasan, b. 1955, Ph.D. (Utah), FNAE, FNASc, FIEEE, Department of Computer Science & Engineering, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7740, Res. (022) 2576 8740, Mobile: 98206 33683, Fax (022) 2572 0022, email: krithi@cse.iitb.ac.in, sp. databases; real-time systems; use of information & communication technologies for socio-economic development.

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  email: murthy1@miami.edu, sp. photochemistry; supramolecular
  chemistry; organic solid state chemistry; chemistry in confined
  710 spaces.
- **Ramamurthy,** Valangiman Subramanian, b. 1942, Ph.D. (Bombay), FNA, FNASc, FNAE, FTWAS, Emeritus Scientist, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560 012, Tel. Off. (080) 2218 5127, Res. (080) 2351 5920, Mobile: 99000 02178, Fax (080) 2218 5028, email: vsramamurthy@nias.iisc.ernet.in; vsramamurthy@gmail.com, sp. nuclear physics; applications of low energy accelerator; science & technology policy.
- **Ramamurti,** Viswanatha, b. 1938, Ph.D. (IIT, Madras), FNA, FNAE, Res. 2 (New No. 5), Fourth Main, Kasturba Nagar, Chennai 600 020, Tel. (044) 2441 2590, Mobile: 98846 62621, email: ramamurti@hotmail.com, sp. vibrations; stress analysis.
- **Ramamurty,** Upadrasta, b. 1967, Ph.D. (Brown), FNAE, FNA, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3241, Res. (080) 2351 8918, Fax (080) 2360 0472, email: ramu@materials.iisc.ernet.in, sp. mechanical behaviour of materials; advanced materials; nanotechnology.
- **Raman,** Rajiva, b. 1948, Ph.D. (Banaras), FNA, FNASc, CSIR Scientist Emeritus, Department of Zoology, Banaras Hindu University, Varanasi 221 005, Tel. Off. (0542) 236 9905; (0542) 670 2522, Res. (0542) 257 0967, Mobile: 93361 52694, email: rajiva.raman@gmail.com; rajiva.raman@yahoo.com, sp. human molecular genetics & cytogenetics; gene expression & chromatin organization in development; sex determination.
- **Ramana,** Chepuri Venkata, b. 1968, Ph.D. (Hyderabad), Division of Organic Chemistry, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2577, Res. (020) 2589 3642, Mobile: 94235 82183, Fax (020) 2590 2629, email: vr.chepuri@ncl.res.in, URL: http://academic.ncl.res.in/profile/vr.chepuri, sp. total synthesis; transition metal catalysis; carbohydrate chemistry.

- 1974 **Ramanan,** Sundararaman, b. 1936, Ph.D. (Bombay), FNA, FNASc, Adjunct Professor, Chennai Mathematical Institute, SIPCOT IT Park, Siruseri, Kelambakkam, Chennai 603 103, Tel. Off. (044) 2254 3376, Res. (044) 2434 1169, Mobile 94445 49919, Fax (044) 2254 1856, email: sramanan@cmi.ac.in, sp. algebraic geometry & differential geometry.
- 2000 Ramaraj, Ramasamy, b. 1956, Ph.D. (Madras), D.Sc. (Japan), D.Sc. (MKU), FNASc, Head, Department of Physical Chemistry and Director, Centre for Photoelectrochemistry, School of Chemistry, Madurai Kamaraj University, Madurai 625 021, Tel. Off. (0452) 245 9084, Res. (0452) 238 2399, Mobile: 89039 71420, email: ramarajr@yahoo.com, sp. photoelectroncatalysis & chemically modified electrodes; nanomaterials; solar energy conversion; catalysis; sensors.
- 1990 **Ramasami,** Thirumalachari, b. 1948, Ph.D. (Leeds), FNA, FNASc, FTWAS, Central Leather Research Institute, Adyar, Chennai 600 020, email: samisrisailam@gmail.com, sp. physical inorganic chemistry; bio-inorganic chemistry; leather science & technology. **Council Service:** 2004–2009, Vice-President: 2007–09.
- 1992 **Ramasesha,** Suryanarayana Sastry, b. 1950, Ph.D. (IIT, Kanpur), FNA, FTWAS, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2925, Res. (080) 2360 2068, Mobile: 98452 12356, Fax (080) 2360 1310, email: ramasesh@sscu.iisc.ernet.in, sp. many-body quantum chemistry; low-dimensional solids; molecular electronics; molecular magnetism; nonlinear optics.
- Pamasubramanian, Sundareswaran, b. 1952, Ph.D. (ISI), Statistics & Mathematics Unit, Indian Statistical Institute, RV College Post, Mysore Road, Bengaluru 560 059, Tel. Off. (080) 2848 3002–3, 4&6/476, Res. (080) 2554 6608, Fax (080) 2848 4265, email: ram@isibang.ac.in; sunramin@gmail.com, sp. stochastic processes; stochastic models in insurance.
- 1963 **Ramaswamy,** Melkote Krishnarao, b. 1931, Ph.D. (Johns Hopkins), Consultant, University of Indianapolis; Res. 3446 Heath-cliff Court, Westfield, IN 46074-5520, USA, Tel. (+1-317) 804 9927, email: melramaswamy@gmail.com, sp. nuclear physics; positron annihilation; logistics; computer systems quality & security.

- **Ramaswamy,** Mythily, b. 1954, Ph.D. (Paris), FNASc, TIFR Centre for Applicable Mathematics, Sharada Nagar, Yelahanka New Town, Bengaluru 560 065, Tel. Off. (080) 6695 3726; (080) 6695 3790, Res. (080) 2334 1138, Mobile: 98453 35387, Fax (080) 6695 3799, email: mythily@math.tifrbng.res.in, URL: math.tifrbng.res.in/~mythily, sp. nonlinear functional analysis; partial differential equations; applications to control problems.
- **Ramaswamy,** Ramakrishna, b. 1953, Ph.D. (Princeton), FNA, Vice Chancellor, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2301 0121, Res. (040) 2300 3434, Mobile: 78930 93737, Fax (040) 2301 1090, email: rr@uohyd.ac.in; r.ramaswamy@gmail.com, sp. nonlinear science; systems biology & bioinformatics; chemical dynamics. **Council Service**: 2010–; Vice-President: 2013–; Editor of Publications: 2013–.
- 1996 Ramaswamy, Sriram Rajagopal, b. 1957, Ph.D. (Chicago), FNA, TIFR Centre for Interdisciplinary Sciences, 21, Brundavan Colony, Narsingi, Hyderabad 500 089 (on lien from Department of Physics, Indian Institute of Science, Bengaluru), Tel. Off. (040) 2419 5003, email: sriram@tifrh.res.in; sriram@physics. iisc.ernet.in, URL: http://www.tifrh.res.in/tcis/faculty/sriram-ramaswamy/, sp. nonequilibrium; soft-matter and biological physics.
- **Ramdas,** Anant Krishna, b. 1930, Ph.D. (Pune), Assoc. FTWAS, Lark-Horovitz Distinguished Professor, Department of Physics, Purdue University, West Lafayette, Indiana 47907, USA, Tel. Off. (+1-765) 494 3028, Res. (+1-765) 463 2707, Fax (+1-765) 494 0706, email: akr@purdue.edu, sp. condensed matter physics; semiconductor physics; optical phenomena; solid state spectroscopy.
- **Ramdorai,** Sujatha, b. 1962, Ph.D. (TIFR), FNA, FNASc, Department of Mathematics, University of British Columbia, 1984, Mathematics Road, Vancouver V6T 1Z2, Canada, Tel. Off. (+1-1604) 822 3627, email: sujatha@math.ubc.ca, URL: www.math. ubc.ca/~sujatha, sp. algebra; quadratic forms; number theory; lwasawa theory.
- **Ramesh,** Rengaswamy, b. 1956, Ph.D. (Gujarat), FNA, FNASc, FTWAS, Outstanding Scientist, Geoscience Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4265, Res. (079) 2676 3980, Mobile: 90999 22878, Fax (079) 2631 4900, email: rramesh@prl.res.in, URL: http://www.prl.res.in/~rramesh/, sp. palaeoclimatology & climate modelling; mass spectrometry; oceanography.

- 2011 **Ranade,** Vivek Vinayak, b. 1963, Ph.D. (Bombay), FNAE, Deputy Director and Chair, Chemical Engineering and Process Development Division, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 2170, Res. (020) 2590 2404, Mobile: 98232 33738, Fax (020) 2590 2621, email: vv.ranade@ncl.res.in, sp. multiphase flows & reactors; computational flow modelling; process intensification.
- 1987 **Ranganath,** Gobbalipur Shamanna, b. 1944, Ph.D. (Bangalore), FNASc, Visiting Professor, Centre for Nano and Soft Matter Sciences, Prof. U R Rao Road, Jalahalli, Bengaluru; Res. No. 422, Chitta, 10th Cross, 8th Main, Padmanabhanagar, Bengaluru 560 070, Tel. Off. (080) 2838 1119/208, Res. (080) 2669 2616, email: gs.ranganath@gmail.com, sp. liquid crystals; optics.
- 1995 **Ranganath,** Hassan Annegowda, b. 1948, Ph.D. (Mysore), FNASc, FNA, Centenary Visitors' House, Indian Institute of Science, Bengaluru 560 012, Mobile: 99023 00909, email: haranganath@gmail.com, sp. zoology; genetics; evolution.
- 1976 Ranganathan, Srinivasa, b. 1941, Ph.D. (Cantab), FNA, FNAE, FNASc, FTWAS, RQ14 Distinguished Fellow & NASI Platinum Jubilee Senior Scientist, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. & Fax (080) 2360 1198, Res. (080) 2351 8521, Mobile: 98803 97490, email: rangu@materials.iisc.ernet.in; rangu2001@yahoo.com, sp. physical metallurgy; the arts & technology; materials & society.
- 1975 Ranganathan, Subramania, b. 1934, Ph.D. (Ohio State), FNASc, FNA, Distinguished Scientist, Organic Chemistry Division III, CSIR Indian Institute of Chemical Technology, Uppal Road, Hyderabad 500 607, Tel. Off. (040) 2719 1648, Res. (040) 2716 0040, Mobile: 90000 90847, Fax (040) 2716 0757, email: srgiict@gmail.com, sp. organic & bio-organic chemistry. Council Service: 1998–2000.
- Pangarajan, Govindan, b. 1963, Ph.D. (Maryland), FNASc, Chairman, Division of Interdisciplinary Research & Professor, Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0373, Res. (080) 2334 4736, Fax (080) 2360 0146, email: rangaraj@math.iisc.ernet.in; govindan. rangarajan@gmail.com, URL: http://math.iisc.ernet.in/~rangaraj, sp. nonlinear dynamics & chaos; time series analysis; mathematical biology.

- 2007 **Rangarajan,** Pundi Narasimhan, b. 1963, Ph.D. (IISc), FNASc, Deparment of Biochemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. & Fax (080) 2360 1492; (080) 2293 2213, Mobile: 98863 03700, email: pnr@biochem.iisc.ernet.in, sp. eukaryotic gene expression; infectious diseases.
- 1981 Rangaswamy, Nanjangud Sreekantaiah, b. 1932, Ph.D. (Delhi), FNA, FNASc, Res. Apartment No. 241, III Floor, Block B2, Kendriya Vihar, Bellary Road, Yelahanka, Bengaluru 560 064, Tel. (080) 2846 1171; (011) 2722 2636, Mobile: 98711 82002, email: rlmc68@yahoo.co.in, sp. reproductive physiology of seed plants; plant tissue culture; biotechnology.
- Ranu, Brindaban Chandra, b. 1949, Ph.D. (Jadavpur), FNA, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/1404, Res. (033) 2435 0097, Mobile: 94330 53856, Fax (033) 2473 2805, email: ocbcr@iacs.res.in; bcranu@gmail.com, sp. green chemistry; indium-mediated; supported metal & metal nanoparticle-catalysed reactions; visible light photocatalysed reactions; organic synthesis.
- 1993 **Rao,** Addicam Jagannadha, b. 1942, Ph.D. (IISc), FNA, FNASc, FAMS, INSA Senior Scientist, Department of Biochemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 8660; (080) 2293 2308, Res. (080) 2650 7124, Mobile: 98458 02391, Fax (080) 2360 0814, email: ajrao@biochem.iisc.ernet.in; ajrao\_2000@yahoo.com, sp. regulation of placental function; biochemistry of placental proteins; differentiation of endocrine tissues; primate biology.
- 2012 **Rao,** Arikkala Raghurama, b. 1954, Ph.D. (Bombay), Department of Astronomy & Astrophysics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2375, Res. (022) 2280 4793, Mobile: 98694 58091, Fax (022) 2280 4610, email: arrao@tifr.res.in, sp. X-ray astronomy; X-ray instrumentation; high energy astrophysics.
- 1997 **Rao,** Aroor Pramesh, b. 1948, Ph.D. (Bombay), Res. Flat 7, Khagol Housing Society, Panchavati, Pashan, Pune 411 008, Tel. (020) 6628 0183, Mobile: 98507 45504, email: prameshrao@ gmail.com, sp. sun & solar wind; wave propagation in random media; aperture synthesis; radio imaging.

- Pao, Basuthkar Jagadeeshwar, b. 1956, Ph.D. (IISc), FNA, FNASc, Senior Professor, Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2606, Res. (022) 2280 4704, Mobile: 90045 88909, Fax (022) 2280 4610, email: bjrao@tifr.res.in, URL: http://www.tifr.res.in/~dbs/faculty/BJ\_Rao.html, sp. genome dynamics; biology of cellular adaptations; computational biology.
- 1974 Rao, Calyampudi Radhakrishna, b. 1920, Ph.D. & Sc.D. (Cambridge), D.Sc. (h.c.), FNA, FNASc, FRS, FTWAS, Member, US Natl. Acad. Sci., Research Professor, University of Buffalo, 29, Old Orchard Street, Williamsville, NY 14221, USA, Tel. Off. (+1-716) 817 6465, Mobile: 93978 06860, email: crr1@psu.edu, sp. statistics with applications to quality control & biology; signal processing; pattern recognition.
- Pao, Chebrolu Pulla, b. 1954, Ph.D. (IISc), FNASc, Institute Chair Professor, Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7162, Res. (022) 2576 8162, Mobile: 99690 22554, Fax (022) 2572 3480, email: cprao@chem.iitb.ac.in; cprao@iitb.ac.in, sp. bioinorganic chemistry; supramolecular chemistry; ion & molecular receptors; metalloproteins & metalloenzymes; nanobiomaterials; lectins & glycosidases.
- 1965 **Rao,** Chintamani Nagesa Ramachandra, b. 1934, D.Sc. (Mysore), Ph.D. (Purdue), D.Sc. (h.c.), Sc.D. (h.c.), LL.D. (h.c.), D.Litt. (h.c.), FNA, FNASc, FRS, Hon. FRS(C), Foreign Assoc. US Natl. Acad. Sci., FTWAS, National Research Professor & Linus Pauling Research Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2365 3075; (080) 2208 2761, Res. (080) 2360 1410, Fax (080) 2208 2760, email: cnrrao@jncasr.ac.in, URL: www. jncasr.ac.in/cnrrao, sp. solid state and materials chemistry; surface science; spectroscopy & molecular structure. **Council Service**: 1971–94, President: 1989–91; Vice-President: 1974–76, 1983–85; Secretary: 1977–82; Editor of Publications: 1983–88.
- 1999 **Rao,** Desirazu Narasimha, b. 1954, Ph.D. (IISc), FNA, FNASc, Department of Biochemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2538, Res. (080) 2361 1677, Fax (080) 2360 0814, email: dnrao@biochem.iisc.ernet.in, sp. protein-DNA interactions using restriction-modification enzymes; DNA mismatch repair proteins as model systems.

- 1983 Rao, Kalya Jagannatha, b. 1940, Ph.D. (IIT, Kanpur), D.Sc. (IISc), D.Sc. (h.c. Univ. Bordeaux), FNA, FNASc, Res. No. 187/1, Tadvanam Estate, Halasingarahalli Road, Kalya Post 562 120, Magadi Taluk, Ramanagaram Dist. Tel. (080) 2341 1129, Mobile: 98801 55726, email: kalyajrao@yahoo.co.in, sp. physical chemistry of amorphous solids & ceramics; phase transitions. Council Service: 1998–2003.
- 1993 Rao, Kanury Venkata Subba, b. 1958, Ph.D. (Baroda), FNA, FNASc, Senior Scientist & Head, Immunology Group, International Centre for Genetic Engineering & Biotechnology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2674 1680, Res. (0124) 236 7332, Mobile: 98106 27255, Fax (011) 2671 5114, email: kanury@icgeb.res.in, sp. synthetic peptides; cell signalling; biology of tuberculosis infection; systems biology.
- 1992 **Rao,** Kaza Kesava, b. 1956, Ph.D. (Houston), Department of Chemical Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2341, Res. (080) 2341 2695, Fax (080) 2360 8121, email: kesava@chemeng.iisc.ernet.in, sp. flow of granular materials; defluoridation of drinking water.
- Pao, Madan, b. 1960, Ph.D. (IISc), Theoretical Physics Group, Raman Research Institute, C V Raman Avenue, Bengaluru 560 080, Tel. Off. (080) 2361 1326; (080) 2366 6270, Res. (080) 2351 0314, Fax (080) 2361 0492, email: madan@rri.res.in, sp. non-equilibrium statistical mechanics; soft condensed matter physics; biological physics.
- 1982 **Rao,** Maddali Nageswara, b. 1931, Dr. rer. nat. (Cologne), Res.16931, Tower Ridge, Friendswood, Texas 77546, USA, Tel. (+1-281) 993 9191, email: sitarao@sbcglobal.net, sp. solar system physics; earth & planetary sciences; lunar & meteorite sample studies; Mars fundamental research; water on Mars.
- 1988 **Rao,** Manchanahalli Rangaswamy Satyanarayana, b. 1948, Ph.D. (IISc), FNA, FNASc, FAMS, FTWAS, Honorary Professor & SERB Distinguished Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2754; (080) 2208 2864, Res. (080) 2351 9131, Fax (080) 2208 2758; (080) 2208 2766, email: mrsrao@jncasr.ac.in, sp. molecular biology; cell biology; neuro-oncology; RNA biology. **Council Service:** 2013–; Vice-President: 2013–.

- Pao, Nittala Venkata Chalapathi, b. 1969, Ph.D (Osmania & Cantab), Associate Professor, Department of Geology, Banaras Hindu University, Varanasi 221 005, Mobile: 99356 47365, email: nvcr100@gmail.com; nvcraobhu@googlemail.com, URL: http://www.bhu.ac.in/Geology/nvcrao.html; http://nvcrao.com, sp. mineralogy; igneous petrology; mantle geochemistry; geodynamics; mineral resources.
- **Rao,** Palle Rama, b. 1937, Ph.D. (Banaras), F.Eng. (UK), FNA, FNASc, FNAE, FTWAS, Foreign Associate, US Natl. Acad. Sci., ARCI for Powder Metallurgy & New Materials, Hyderabad; Res. Flat 301, Naimisam, Plot No. 22, Srinagar Colony, Hyderabad 500 073, Tel. Off. (040) 2444 3167, Res. (040) 6661 4475, Mobile: 98497 65123, Fax (040) 2444 3168, email: ramaraop37@ gmail.com, sp. deformation; fracture; materials development. **Council Service**: 1989–2000; Vice-President: 1992–94; President: 1995–97.
- **Rao,** Paranandi Venkata Suryanarayana, b. 1936, Ph.D. (Bombay), FNA, FNAE, FNASc, Res. Flat No. 601, Vigyan, Sector 17, Next to Garden, Vashi, Navi Mumbai 400 703, Tel. (022) 2789 0712, Mobile: 92255 18888, email: dr.pvsrao@gmail.com, sp. computer science & speech research; natural language processing; cursive script recognition.
- **Rao,** Pendyala Balarama, b. 1938, Ph.D. (Andhra), Vice Chairman, ADCOS-DOS, National Remote Sensing Centre, Department of Space, PPEG, Building No. 10, Balanagar, Hyderabad 500 037, Tel. Off. (040) 2388 4020, Res. (040) 2300 3888, Mobile: 97047 52569, Fax (040) 2387 7210, email: rao\_pb@nrsc.gov.in; pbrao\_nmrf@yahoo.co.in, sp. space physics; radio wave propagation; radar systems.
- **Rao,** Ramachandra Raghavendra, b. 1945, Ph.D. (Mysore), FNA, FNASc, Res. No. 328, B-4, Kendriya Vihar, Yelahanka, Bengaluru 560 064, Tel. (080) 2856 4291, Mobile: 94488 52356, email: raocimap@gmail.com, sp. plant taxonomy; ethnobotany; phytogeography; biodiversity & conservation.
- **Rao,** Ravi Achutha, b. 1954, Ph.D. (TIFR), FNA, Professor H, Shool of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2470, Res. (022) 2430 9827, Mobile: 98333 63678, Fax (022) 2280 4610, email: ravi@math.tifr.res.in, sp. classical algebraic K-theory; commutative algebra; linear algebra.

- Pao, Taduri Srinivasa Siva Rama Krishna, b. 1954, Ph.D. (ISI), Fulbright-Nehru Academic & Professional Excellence Fellow, Department of Mathematical Sciences, University of Memphis, USA; Statistics & Mathematics Unit, Indian Statistical Institute, RV College Post, Mysore Road, Bengaluru 560 059, Tel. Off. (080) 2848 3002/417, Res. (080) 2339 9019, Fax (080) 2848 4265, email: tss@isibang.ac.in; srin@fulbrightmail.org, URL: http://www.isibang.ac.in/~tss/, sp. mathematics; functional analysis; geometry of Banach spaces.
- Rao, Udipi Ramachandra, b. 1932, Ph.D. (Gujarat), D.Sc. (h.c.), FNA, FNASc, FTWAS, FNAE, Chairman, PRL Council, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru; Res. 3367-E, 13th Main Road, HAL II Stage, Indiranagar, Bengaluru 560 038, Tel. Off. (080) 2341 6406; (080) 2217 2387, Res. (080) 2526 9523, Fax (080) 2341 0705, email: urrao.isro@hotmail.com; urrao@isro.gov.in, sp. cosmic rays; space physics, technology & applications; avionics; satellite & rocket technology; high energy astronomy.
- 2009 Rao, Valipe Ramgopal, b. 1965, Dr-Ingenieur (Germany), FNAE, FNASc, FNA, PK Kelkar Chair Professor of Nanotechnology, Department of Electrical Engineering, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7456, Res. (022) 2576 8456, Mobile: 98690 34490, Fax (022) 2572 3707, email: rrao@ee.iitb.ac.in, URL: www.ee.iitb.ac.in/~rrao, sp. nanoelectronics; nanotechnology.
- 1975 **Rastogi,** Raghunath Prasad, b. 1926, Ph.D. (Lucknow), FNA, FNASc, D.Sc. (h.c.), Res. 295/281 KA, Asherfabad, Lucknow 226 003, Tel. (0522) 226 9638, Mobile: 94096 46798, email: rprastogi@yahoo.com, sp. physical chemistry; non-equilibrium thermodynamics; nonlinear science.
- 1974 **Rastogi,** Ram Gopal, b. 1929, Ph.D. (Gujarat), FNA, FNASc, Visiting Professor, Physical Research Laboratory, Navrangpura, Ahmedabad; Res. 22B Lad Society, Sandesh Press Road, Bodakdev, Ahmedabad 380 054, Tel. Off. (079) 2631 4055, Res. (079) 2685 0958, Mobile: 96249 24030, email: parvs@prl.res.in; profrgrastogi@yahoo.com, sp. ionospheric physics; geomagnetism & space weather disturbance.
- 1989 **Ratnasamy,** Paul, b. 1942, Ph.D. (Madras), FNA, FNASc, FNAE, Res. 4, Lalit Apartments, Gulmohar Park, ITI Road, Aundh, Pune 411 007, Tel. (020) 2589 8058, Mobile: 73500 05192, email: paul\_ratnasamy@yahoo.com, sp. catalysis; zeolites; biofuels; industrial chemistry.

- **Ravi,** Vasanthapuram, b. 1955, MD (JIPMER), FAMS, Head, Department of Neurovirology, National Institute of Mental Health and Neurosciences, Hosur Road, Bengaluru 560 029, Tel. Off. (080) 2699 5126, Res. (080) 2659 7290, Mobile: 93436 02246, Fax (080) 2656 4830, email: virusravi@gmail.com, sp. neurovirology; viral diagnostics; molecular epidemiology of viral infections.
- **Ravikanth,** Mangalampalli, b. 1966, Ph.D. (IIT, Kanpur), Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7176, Res. (022) 2576 8176, Mobile: 98190 84270, Fax (022) 2576 7152, email: ravikanth@ chem.iitb.ac.in, URL: www.chem.iitb.ac.in/people/Faculty/prof/mr. html, sp. supramolecular chemistry; co-ordination chemistry; photochemistry.
- **Ravindran,** Vajravelu, b. 1965, Ph.D. (Madras), Institute of Mathematical Sciences, IV Cross Road, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3208, Fax (044) 2254 1586, email: ravindra@imsc.res.in, sp. perturbative quantum chromodynamics.
- **Ravindranath,** Vijayalakshmi, b. 1953, Ph.D. (Mysore), FNA, FNASc, FTWAS, FAMS, Centre for Neuroscience, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3433, Res. (080) 2661 5001, Mobile: 90088 85529, email: viji@cns.iisc.ernet.in, URL: http://www.cns.iisc.ernet.in/viji/index.html, sp. neuroscience; toxicology; pharmacology.
- **Ravishankar,** Narayanan, b. 1970, Ph.D. (IISc), FRSC, Materials Research Centre, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3255, Res. (080) 4211 3448, Mobile: 96328 20840, Fax (080) 2360 7316, email: nravi@mrc.iisc.ernet.in; raviisc@gmail.com, URL: mrc.iisc.ernet.in/~nravi/index2.html, sp. nanomaterials; electron microscopy; energy applications.
- 1995 Ray, Deb Shankar, b. 1954, Ph.D. (Calcutta), FNA, Department of Physical Chemistry, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 5374, Res. (033) 2571 2906, Fax (033) 2473 2805, email: pcdsr@iacs.res.in, sp. nonlinear dynamics; nonequilibrium statistical mechanics.
- **Raychaudhuri,** Amitava, b. 1952, Ph.D. (Maryland), FNA, FNASc, Palit Professor of Physics, University of Calcutta, 92, Acharya Prafulla Chandra Road, Kolkata 700 009, Tel. Off. (033) 2352 5631, Res. (033) 2473 7519, Mobile: 98312 43624, email: palitprof@gmail.com, sp. particle physics.

- **Raychaudhuri,** Arup Kumar, b. 1952, Ph.D. (Cornell), FNA, FNASc, Distinguished Professor Emeritus, S.N. Bose National Centre for Basic Sciences, JD Block, Sector 3, Salt Lake, Kolkata 700 098, Tel. Off. (033) 2335 5706-8/208, Res. (033) 2354 1884, Fax (033) 2335 2733, email: arup@bose.res.in, sp. nanosciences & technology; experimental solid state & low temperature physics; instrumentation development. **Council Service**: 1998–2000.
- **Reddy,** Arjula Ramachandra, b. 1945, Ph.D. (Osmania), Emeritus Professor, School of Life Sciences, University of Hyderabad, Hyderabad; Res. Apartments No. M 1001, Aparna Sarovar, Nallagandla, Hyderabad 500 046, Tel. Off. (040) 2313 4750, Res. (040) 6776 8765, Mobile: 97031 01477, email: arjulsl@uohyd.ernet.in; arjulsl@yahoo.com, sp. genetics; plant molecular genetics; plant genomics.
- **Reddy,** Vellenki Umapathi, b. 1939, Ph.D. (Missouri), FNA, FNAE, FIEEE, Honorary Professor, Indian Institute of Technology, Hyderabad; Res. No. 37, Aparna Orchids, Near HITEX Grounds, Izzatnagar, Kondapur, Hyderabad 500 084, Tel. (040) 2311 4725, Mobile: 98481 35781, email: vur10839@gmail.com, sp. signal processing; communications.
- **Rindani,** Saurabh Dilsukhray, b. 1952, Ph.D. (IIT, Bombay), FNA, FNASc, Senior Professor H, Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4462, Res. (079) 2686 0148, Fax (079) 2631 4460, email: saurabh@prl.res.in; sdrindani@gmail.com, URL: www.prl. res.in/~saurabh, sp. particle physics.
- **Roy**, Aditya Prasad, b. 1939, Ph.D. (McMaster), Res. E-1, RH-IV, Sector 9N, CBD, Belapur, Navi Mumbai 400 614, Tel. (022) 2757 2715, Mobile: 99202 53215, email: aproy11@gmail.com, sp. condensed matter physics.
- **Roy,** Ashit Baran, b. 1938, Ph.D. (Jadavpur), FNA, Res. Flat No. 3/2G, Niloy Apartment, 46A, Ramanath Das Road, Kolkata 700 031, Tel. (033) 2405 3671, Mobile: 94330 87685, email: abroy\_g@yahoo.com; ashitbaranroy@gmail.com, sp. precambrian geology; geology of Indian shield.
- **Roy,** Durga Prasad, b. 1941, Ph.D. (Bombay), FNA, FNASc, INSA Senior Scientist, Homi Bhabha Centre for Science Education (TIFR), V.N. Purav Marg, Mumbai 400 088, Tel. Off. (022) 2507 2440, Res. (022) 2789 8101, Mobile: 97697 33915, Fax (022) 2556 6803, email: dproy@tifr.res.in; dproy1@gmail.com, sp. particle physics; astroparticle physics.

- 1989 **Roy,** Probir, b. 1942, M.A. (Cantab), Ph.D. (Stanford), FNA, FNASc, Res. CK 147, Sector 2, Bidhan Nagar, Kolkata 700 091, Tel. (033) 2359 8896, Mobile: 94325 97896, email: probirrana@ gmail.com, sp. particle & astroparticle physics; field theory; phenomenology.
- 2011 **Roy,** Rahul, b. 1959, Ph.D. (Cornell), Indian Statistical Institute, 7 SJS Sansanwal Marg, New Delhi 110 016, Tel. Off. (011) 4149 3905, Res. (011) 2696 4112, Mobile: 98689 29236, Fax (011) 4149 3981, email: rahul@isid.ac.in, sp. probability & stochastic processes.
- 2009 Roy, Rajendra Prasad, b. 1962, Ph.D. (IISc), FNASc, Staff Scientist VII, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2670 3698, Res. (011) 2674 1142, Mobile: 98105 77789, Fax (011) 2671 7104, email: rproy@nii.ac.in, sp synthetic protein chemistry; chemical biology.
- 1983 **Roy,** Shasanka Mohan, b. 1941, Ph.D. (Princeton), FNA, FNASc, FTWAS, INSA Senior Scientist, Homi Bhabha Centre for Science Education (TIFR), V.N. Purav Marg, Mankhurd, Mumbai 400 088, Tel. Off. (022) 2555 4712; (022) 2555 5242, Res. (022) 2788 8961, email: shasanka1@yahoo.co.in, URL: http://theory.tifr.res.in/~shasanka/, sp. quantum information; foundations of quantum theory.
- 1996 **Roy,** Siddhartha, b. 1954, Ph.D. (Delaware), FNA, Senior Professor & Dean of Studies, Bose Institute, P1/12, CIT Scheme VII M, Kolkata 700 054, Tel. Off. (033) 2355 9544, Res. (033) 2412 1261, email: sidroykolkata@gmail.com, sp. chemical biology; protein–nucleic acid interaction; peptide therapeutics.
- 2008 Roy, Sujit, b. 1959, Ph.D. (IIT, Kanpur), Dean (Faculty Affairs) & Professor of Chemistry, School of Basic Sciences, Indian Institute of Technology, Toshali Bhawan, Satya Nagar, Bhubaneswar 751 007, Tel. Off. (0674) 257 6021; (0674) 257 6056, Mobile: 94393 65740, Fax (0674) 257 6022, email: sujitroy.chem@gmail.com, sp. organometallic chemistry; catalysis for fine chemicals; C–H functionalization.
- Roy, Syamal, b. 1954, Ph.D. (Calcutta), FNASc, FNA, Infectious Diseases & Immunology Division, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2499 0395; (033) 2473 3491, Res. (033) 2472 5624, Mobile: 98745 32967, Fax (033) 2473 5197, email: sroy@iicb.res.in; drsyamalroy@yahoo.com, URL: http://iicb.res.in/divisionwiselistofscientists/id/sroy.html, sp. immunology; parasitology; vaccine research.

- **Roy,** Tuhin Kumar, b. 1923, Sc.D. (MIT), FNAE, Res. A-58, Gulmohar Park, New Delhi 110 049, Tel. (011) 2686 6713, email: tuhinsilvaroy@gmail.com, sp. hydro-metallurgy; fluidization.
- **Roy Barman,** Sudipta, b. 1964, Ph.D. (IISc), Scientist F, UGC-DAE Consortium for Scientific Research, Khandwa Road, Indore 452 001, Tel. Off. (0731) 246 3913/123, Res. (0731) 248 7346, Mobile: 98263 36110, Fax (0731) 246 2294, email: barmansr@gmail.com, sp. electron spectroscopy; surface science; material studies.
- **Roy Chaudhury,** Sailendranath, b. 1923, M.Sc. (Cranfield), Res. No. 618, 80 Feet Road, 4th Block, Koramangala, Bengaluru 560 034, Tel. (080) 2553 1593, email: navuday@gmail.com, sp. propulsion; agro & blue micro algae-based energy; bio-diesel & hydrogen fuel.
- **Roychoudhury,** Susanta, b. 1955, Ph.D. (Calcutta), FNASc, Cancer Biology & Inflammatory Disorder Division, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2499 5823, Res. (033) 2358 1528, Mobile: 9433 02986, Fax (033) 2473 5197, email: susanta@iicb.res.in, cancer biology; human genetics; genomics.
- **Rudraiah,** Nanjundappa, b. 1932, Ph.D. (Canada), FNA, FNASc, Res. 492/G, 7th Cross, 7th Block, Jayanagar, Bengaluru 560 070, Tel. (080) 2676 4356, Mobile: 94483 89763, email: rudraiahn@ hotmail.com, sp. fluid mechanics; magnetohydrodynamics; electrodynamics; stability of flows; heat & mass transfer; smart materials; biomechanics; dispersion phenomena.
- **Saha,** Bhaskar, b. 1964, Ph.D. (Calcutta), FNASc, Scientist F, National Centre for Cell Science, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2570 8138, Res. (020) 2570 8044, Mobile: 94223 19945, Fax (020) 2569 2259, email: sahab@nccs.res.in, URL: www.nccs.res.in/saha1.html, sp. immunology; signal transduction; parasitology.
- **Saha-Dasgupta,** Tanusri, b. 1966, Ph.D. (Calcutta), FNASc, S.N. Bose National Centre for Basic Sciences, JD Block, Sector III, Salt Lake, Kolkata 700 098, Tel. Off. (033) 2335 5705–08, Res. (033) 2324 1232, Mobile: 98312 09592, Fax (033) 2335 3477, email: tanusri@bose.res.in, URL: http://www.bose.res.in/~tanusri/, sp. condensed matter physics; computational materials science; electronic structure calculations.

- Sahni, Ashok, b. 1941, Ph.D. (Minnesota), FNA, FNASc, FTWAS, Res. 98 Mahatma Gandhi Marg, Lucknow 226 001, Mobile: 99560 29934, email: ashok.sahni@gmail.com, sp. vertebrate palaeontology; palaeobiogeography; electron microscope applications to biomineralization.
- 2001 **Sahni,** Girish, b. 1956, Ph.D. (IISc), FNASc, FNA, Director, CSIR Institute of Microbial Technology, Sector 39-A, Chandigarh 160 036, Tel. Off. (0172) 269 0785; (0172) 269 0684, Res. (0172) 269 0550, Fax (0172) 269 0585, Mobile: 98883 71548, email: director@imtech.res.in, sp. protein engineering; molecular biology; biotechnology; enzymology.
- Sahni, Varun Bhisham, b. 1956, Ph.D. (Moscow State), FNASc, FNA, Distinguished Professor, Inter-University Centre for Astronomy & Astrophysics, Post Bag 4, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4112, Res. (020) 2560 4406, Fax (020) 2560 4699, email: varun@iucaa.ernet.in, sp. general relativity & gravitation; cosmology: dark matter & dark energy; formation of Galaxies; superclusters & voids; the cosmic microwave background; extra dimensions.
- 1993 **Saidapur,** Srinivas Kishanrao, b. 1947, Ph.D. (Karnatak), FNA, FNASc, FTWAS, Res. Plot No. 108, Sripad Nagar, Saptapur, Dharwad 580 001, Tel. (0836) 277 6789, Mobile: 96633 78259, email: saidapur@gmail.com, sp. biology of reproduction; comparative endocrinology; herpetology; animal behaviour.
- 2001 **Salunke,** Dinakar Mashnu, b. 1955, Ph.D. (IISc), FNASc, FNA, Executive Director, Regional Centre for Biotechnology, 180, Udyog Vihar Phase I, Gurgaon 122 016, Tel. Off. (0124) 403 8116, Res. (011) 2669 1858, Fax (0124) 284 8803, email: director@rcb.res.in, URL: http://www.rcb.res.in/dmsalunke.html, sp. structural biology; macromolecular crystallography; immunology; biotechnology.
- 2003 **Samanta,** Anunay, b. 1956, Ph.D. (Jadavpur), FNASc, FNA, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4813; (040) 2301 1594, Res. (040) 2301 0715, Mobile: 94404 99681, Fax (040) 2301 1594, email: anunay@uohyd.ac.in; anunay.samanta@gmail.com, URL: http://chemistry.uohyd.ernet.in/~as/, sp. photochemistry; timeresolved spectroscopy; physical chemistry of ionic liquids.

- 2010 **Sami,** Mohammad, b. 1955, Ph.D. (Moscow State), FNASc, Director, Centre for Theoretical Physics, Jamia Millia Islamia, Jamia Nagar, New Delhi 110 025, Tel. Off. (011) 2698 4830, Mobile: 99908 40273, Fax (011) 2698 4830, email: sami@iucaa. ernet.in; samijamia@gmail.com, URL: www.ctp-jamia.res.in/sami, sp. cosmology; higher dimensional gravity; high energy physics.
- 2009 **Sampath,** Srinivasan, b. 1961, Ph.D. (IIT, Madras), FNA, Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3315, Res. (080) 2351 1974, Mobile: 98862 70646, Fax (080) 2360 6867, email: sampath@ipc.iisc.ernet.in, URL: http://ipc.iisc.ernet.in/sampath. html, sp. interfacial (electro) chemistry; nanostructured materials; SERS; sensors; fuel cells; supercapacitors.
- 1998 **Sampathkumaran,** Echur Varadadesikan, b. 1954, Ph.D. (Bombay), FNASc, FNA, FTWAS, Distinguished Professor, Department of Condensed Matter Physics & Materials Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2437; (022) 2278 2439, Res. (022) 2280 4977, Mobile: 98921 00402, Fax (022) 2280 4610–1, email: sampath@mailhost.tifr.res.in, sp. magnetism; superconductivity; Kondo lattices; strong electron correlations; geometrical frustration; spin-chain behavior; multiferroics.
- Sane, Prafullachandra Vishnu, b. 1937, Ph.D. (Alberta), FNA, FNASc, Principal Adviser, Agri Biotech (R&D), Jain Irrigation System Ltd, Jalgaon; Res. C-739/B, Sector C, Mahanagar Extension, Lucknow 226 006, Tel. (0522) 233 0989, email: rajsane@hotmail.com; saneraj@rediffmail.com, sp. plant biochemistry; plant molecular biology; photosynthesis.
- Sane, Sharad Sadashiv, b. 1950, Ph.D. (IIT, Bombay), Department of Mathematics, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 9452, Res. (022) 2572 4430; (022) 2576 8452, Mobile: 99695 60519, Fax (022) 2572 3480, email: sane@math.iitb.ac.in; sharadsane@gmail.com, sp. finite geometries; design theory; graph theory.
- 1999 **Sanjappa**, Munivenkatappa, b. 1951, Ph.D. (Baroda), FNA, FNASc, CSIR Emeritus Scientist, Botanical Garden, University of Agricultural Sciences, GKVK, Bengaluru; Res. 504, Block C-7, Kendriya Vihar, Bellary Road, Yelahanka, Bengaluru 560 064, Mobile: 99720 35160, email: sanjappam@ymail.com; m.sanjappa@nic.in, sp. plant taxonomy & conservation.

- **Sankara Rao,** Kolluri, b. 1939, Ph.D. (Bangalore), Distinguished Fellow, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2506; (080) 2293 2786/261, Res. (080) 2341 1148, Mobile: 98453 39826, Fax (080) 2360 0814, email: herbarium@ces.iisc.ernet.in; sankara.kolluri@gmail.com, sp. plant developmental biology; biotechnology; biodiversity informatics & plant systematics.
- **Sankaran,** Parameswaran, b. 1959, Ph.D. (Calgary), FNASc, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3211, Res. (044) 2446 0909, Fax (044) 2254 1586, email: sankaran@imsc.res.in, URL: www.imsc.res.in/~sankaran, sp. topology & Lie groups.
- **Sankaranarayanan,** Rajan, b. 1968, Ph.D. (IISc), FNA, FNASc, Group Leader, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2832, Res. (040) 2717 1504, Mobile: 98664 97744, Fax (040) 2716 0591, email: sankar@ccmb.res.in, URL: http://www.ccmb.res.in/staff/sankar/index.html, sp. structural biology; translation of the genetic code; enzyme mechanisms.
- **Santappa,** Mushi, b. 1923, Ph.D. (London and Manchester), D.Sc. (h.c.), D.Litt. (h.c.), FNA, FNASc, Res. No. 8, Third Main Road, Kasturba Nagar, Adyar, Chennai 600 020, Tel. (044) 2441 5163, Mobile: 98409 75032, email: sunanda\_cle@yahoo.co.in, sp. physical & inorganic chemistry; photochemistry; science & technology of leather; polymer chemistry & industrial pollution control.
- **Santhanam,** Vaidyanathaswamy, b. 1925, Ph.D. (Madras), Res. 'Shri Abhirami', 107, Venkataswamy Road West, R.S. Puram Post, Coimbatore 641 002, Tel. (0422) 254 6857, Mobile: 99946 22260, sp. plant breeding & genetics; research management; cotton development.
- Sanyal, Milan Kumar, b. 1954, Ph.D. (Bombay), FNA, FNASc, Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar, Kolkata 700 064, Tel. Off. (033) 2321 4763, Res. (033) 2321 5453, Mobile: 98742 35010, Fax (033) 2337 4637, email: milank.sanyal@gmail.com; milank.sanyal@saha.ac.in, URL: http://www.saha.ac.in/cs/www/faculty-new.htm, sp. condensed matter physics; surface physics; synchrotron X-ray scattering; electronic transport in nano-structured-materials.

- 1992 **Sanyal,** Suhas Chandra, b. 1942, MD (Banaras), Ph.D. (Calcutta), FNA, FAMS, Res. Udita 09-0303, Nabami, 1050/1, Survey Park, Kolkata 700 075, Tel. (033) 2418 8005, Mobile: 98302 16875, email: scsanyal@hotmail.com, sp. medical microbiology; pathogenicity; nosocomial infections; infection control; antimicrobial therapy.
- Sarin, Apurva, b. 1962, Ph.D. (JNU), National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6080, Fax (080) 2366 6462, email: sarina@ncbs.res.in, sp. immunology; cell biology; apoptosis.
- 2000 Sarin, Manmohan, b. 1951, Ph.D. (Gujarat), FNA, FNASc, Honorary Scientist, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4306, Res. (079) 2685 8711, Mobile: 94267 27301, Fax (079) 2630 1502, email: sarin@prl.res.in, sp. atmospheric & aerosol chemistry; chemical oceanography.
- 2005 Sarin, Shiv Kumar, b. 1952, D.M. (AIIMS), MD (SMS Jaipur), FNA, FNASc, FAMS, Director, Institute of Liver and Biliary Sciences, D1, Vasant Kunj, New Delhi 110 070, Tel. Off. (011) 4630 0000, Res. (011) 2687 3563, Fax (011) 2612 3504, email: shivsarin@gmail.com, sp. hepatology.
- 2012 Sarkar, Anindya, b. 1959, Ph.D. (PRL), FNA, Department of Geology & Geophysics, Indian Institute of Technology, Kharagpur 721 302, Tel. Off. (03222) 28 3392, Res. (03222) 28 3393, Mobile: 94340 43377, Fax (03222) 28 2268, email: anindya@gg.iitkgp. ernet.in, sp. stable isotope geochemistry; palaeoclimatology; geochronology.
- Sarkar, Chitra, b. 1955, MD (AIIMS), FRC (Path) (London), FNASc, FAMS, Department of Pathology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2659 3371, Res. (011) 2658 8390, Mobile: 98101 81945, Fax (011) 2658 8663, email: sarkar.chitra@gmail.com, sp. neuropathology. Council Service: 2013–.
- Sarkar, Debi Prasad, b. 1958, Ph.D. (Calcutta), FNASc, FNA, JC Bose National Fellow, Department of Biochemistry, University of Delhi South Campus, Benito Juarez Road, New Delhi 110 021, Tel. Off. (011) 2411 1967, Res. (011) 2411 3869, Mobile: 98106 96767, Fax (011) 2411 5270, email: dpsarkar59@gmail.com; debi.sarkar@south.du.ac.in, sp. biochemistry; molecular virology; cell biology; biotechnology; membrane biology.

- Sarkar, Pranab Kumar, b. 1939, Ph.D. (Calcutta), FNA, INSA Honorary Scientist, Division of Neurobiology, CSIR Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 3491/707, Res. (033) 2337 2927, Mobile: 94330 60022, Fax (033) 2473 0284, email: pk\_sarkar@hotmail.com, sp. thyroid hormones & brain development; molecular biology & endocrinology; neurodegenerative diseases.
- Sarkar, Sabyasachi, b. 1947, Ph.D. (Gorakhpur), Ramanna Fellow & Honorary Emeritus Professor, Nanoscience & Artificial Leaf Laboratory, Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Botanic Garden, Howrah 711 103, Tel. Off. (033) 2668 6464, Mobile: 98305 62156; 89024 99683, email: sabby@chem.iiests.ac.in; protozyme@gmail.com, URL: http://home.iitk.ac.in/~abya/, sp. structure-functional analogue of metallo-proteins; graphenes & carbon quantum dots; drug delivery.
- 2008 Sarkar, Utpal, b. 1956, Ph.D. (Calcutta), FNA, FNASc, Outstanding Scientist, Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4855, Res. (079) 2686 1223, Mobile: 98985 86326, Fax (079) 2631 4460, email: utpal@prl.res.in, URL: www.prl.res.in/~utpal/home/, sp. particle & astroparticle physics.
- Sarma, Dipankar Das, b. 1955, Ph.D. (IISc), FNA, FNASc, FTWAS, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 7576; (080) 2293 2945, Res. (080) 2360 3061, Fax (080) 2360 1310, email: sarma@sscu.iisc.ernet.in; sarma.dd@gmail.com, URL: http://sscu.iisc.ernet.in/DDSarma/, sp. strongly interacting electron systems; disordered systems; nanomaterials; conducting polymers.
- Sarma, Vallury Visweswara Subrahmanya, b. 1944, Ph.D. (IISc), FNA, FNAE, Res. 2182, Siva, 8th Main Road, E-Block, Rajajinagar 2nd Stage, Bengaluru 560 010, Tel. (080) 2332 1876, Mobile: 98860 60501, email: vallury.sarma@gmail.com, sp. artificial intelligence; reliable computing; systems engineering; Indian logic (nyaya darsana).

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- 1969 Sasisekharan, Visvanathan, b. 1933, Ph.D. (Madras), FNA, FNASc, Res. c/o Prof. Ram Sasisekharan, Department of Biological Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139, USA, Tel. (+1-781) 538 4045, email: sasi@mit.edu, sp. molecular biophysics.
- 2013 **Sastry,** Garikapati Narahari, b. 1966, Ph.D. (Hyderabad), FNASc, Head, Centre for Molecular Modelling, CSIR Indian Institute of Chemical Technology, Uppal Road, Hyderabad 500 607, Tel. Off. (040) 2719 3016, Res. (040) 2705 0272 Mobile: 99635 82996, Fax (040) 2716 0512, email: gnsastry@gmail.com; gnsastry@iict.res.in, URL: 203.199.182.73/gnsmmg/, sp. computational chemistry; theoretical chemistry; computer-aided drug design.
- 2002 **Sastry,** Murali, b. 1959, Ph.D. (IIT, Madras), Chief Scientific Officer, Tata Chemicals Innovation Centre, Ghotavde Phata, Urawde Road, Pirangut Industrial Area, Gate No. 1139/1, Mulshi, Pune 412 108, Tel. Off. (020) 6654 9701, Res. (020) 2589 3952, Mobile: 92230 56210, email: msastry@tatachemicals.com, sp. surface physics; hybrid materials; nano materials.
- Sastry, Srikanth, b. 1964, Ph.D. (Boston), FNASc, Theoretical Sciences Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur Campus, Bengaluru 560 064, Tel. Off. (080) 2208 2838, Fax (080) 2208 2928; (080) 2208 2766, email: sastry@jncasr.ac.in, URL: http://www.jncasr.ac.in/sastry, sp. statistical mechanics; liquids; glass transition; glasses & other structurally arrested matter.
- 2010 **Satheesh**, Sreedharan Krishnakumari, b. 1970, Ph.D. (Kerala), FNA, FNASc, FTWAS, Divecha Centre for Climate Change, Centre for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3070, Res. (080) 2357 0274, Mobile: 94483 60274, Fax (080) 2360 0865, email: profsks@gmail.com, URL: http://caos.iisc.ernet.in/faculty/satheesh.html, sp. aerosols; radiation; climate.

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- 1974 **Satya Prakash,** b. 1929, Ph.D. (Gujarat), FNA, FNASc, Res. 395, Saraswathi Nagar, near Azad Society, Ahmedabad 380 015, Tel. (079) 2674 1823, Mobile: 94292 05470, email: sprakash\_prl@yahoo.com, sp. planetary, atmospheric & space plasmas.
- 1993 **Savithri,** Handanahal Subbarao, b. 1951, Ph.D. (IISc), FNA, FNASc, Department of Biochemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 1561; (080) 2293 2310, Res. (080) 2337 2981, Mobile: 94483 79380, Fax (080) 2360 0814, email: bchss@biochem.iisc.ernet.in, sp. plant molecular virology; protein chemistry; enzymology.
- Saxena, Rajiv Krishna, b. 1951, Ph.D. (AIIMS), FNA, FNASc, JC
  Bose National Fellow, Dean, Faculty of Life Sciences &
  Biotechnology and Vice President, South Asian University,
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  (011) 2412 2510, Res. (011) 6502 8822, Mobile: 99100 48241, Fax
  (011) 2412 2511, email: rajivksaxena@hotmail.com; rksaxena@
  southasianuniversity.org, URL: www.rajivsaxena.info, sp.
  immunology; toxicology; nanoparticles.
- Sebastian, Kizhakeyil Lukose, b. 1950, Ph.D. (IISc), FNA, Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2385, Res. (080) 2308 9636, Fax (080) 2360 1552, email: kls@ipc.iisc.ernet.in, URL: http://ipc.iisc.ernet.in/~kls, sp. theoretical chemistry; chemistry of interfaces.
- 1995 **Sen,** Abhijit, b. 1946, Ph.D. (Tennessee), FNA, FNASc, S. Chandrasekhar Chair Professor, Institute for Plasma Research, Bhat, Gandhinagar 382 428, Tel. Off. (079) 2396 2048; (079) 2396 9023, Res. (079) 2692 6749, Mobile: 98250 51578, Fax (079) 2396 9016, email: abhijit@ipr.res.in; senabhijit@gmail.com, sp. plasma physics; nonlinear dynamics; free electron lasers. Council Service: 2010–12.

- 1991 **Sen,** Ashoke, b. 1956, Ph.D. (SUNY, Stony Brook), FNA, FNASc, FRS, Harish Chandra Research Institute, Chhatnag Road, Jhusi, Allahabad 211 019, Tel. Off. (0532) 227 4302, Res. (0532) 227 4002, Fax (0532) 256 9576, email: sen@hri.res.in, sp. superstring theory.
- 2001 **Sen,** Diptiman, b. 1959, Ph.D. (Princeton), FNA, FNASc, Centre for High Energy Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2974, Res. (080) 2360 7073, Fax (080) 2360 0683, email: diptiman@cts.iisc.ernet.in, URL: http://cts.iisc.ernet.in/Personnel/diptiman.html, sp. theoretical condensed matter physics; quantum field theory.
- 1992 **Sen,** Kalidas, b. 1948, Ph.D. (IIT, Kanpur), FNA, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4809, Mobile: 96520 09749, Fax (040) 2301 2460, email: sensc@uohyd.ernet.in; kalidas.sen@gmail.com, sp. electronic structure: density functional theory & confined systems; information theory; statistical complexity.
- 2007 **Sen,** Sandeep, b. 1962, Ph.D. (Duke), FNA, Department of Computer Science & Engineering, Indian Institute of Technology, New Delhi 110 016, Tel. Off. (011) 2659 1293, Res. (011) 2659 1605, Mobile: 98681 14462, Fax (011) 2658 1060, email: ssen@cse.iitd.ernet.in, URL: www.cse.iitd.ernet.in/~ssen, sp. sequential & parallel algorithms; probabilistic analysis & randomization; computational geometry.
- 2012 Sengupta, Krishnendu, b. 1970, Ph.D. (Maryland), FNASc, Department of Theoretical Physics, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/2192, Mobile: 98301 78500, Fax (033) 2473 2805, email: tpks@iacs.res.in; ksengupta1@ gmail.com, sp. condensed matter theory.
- 2011 Sengupta, Pulak, b. 1963, Ph.D. (Jadavpur), FNA, Department of Geological Sciences, Jadavpur University, Kolkata 700 032, Mobile: 97483 59495, email: pulaksg@gmail.com, sp. metamorphic petrology; precambrian geology.
- 2006 **Sengupta,** Surajit, b. 1962, Ph.D. (IISc), Professor H, TIFR Centre for Interdisciplinary Sciences, 21, Brundavan Colony, Narsingi, Hyderabad 500 089, Tel. Off. (040) 2419 5008, Res. (040) 2419 3120, email: surajit@tifrh.res.in, sp. condensed matter physics; statistical mechanics; materials science.

- 1971 **Seshadri,** Conjeevaram Srirangachari, b. 1932, Ph.D. (Bombay), FNA, FNASc, FRS, Director-Emeritus, Chennai Mathematical Institute, H1, SIPCOT IT Park, Siruseri, Kelambakkam, Chennai 603 103, Tel. Off. (044) 6748 0921, Res. (044) 2446 4572, Mobile: 94440 87810, Fax (044) 2747 0225, email:css@cmi.ac.in, sp. algebraic geometry.
- 1986 Sethunathan, Nambrattil, b. 1937, Ph.D. (Madras), FNA, FNAAS, FNASc, Res. Flat No. 103, Ushodaya Apartments, Sri Venkateswara Officers' Colony, Ramakrishnapuram, Secunderabad 500 056, Tel. (040) 2799 0758, email: sethunathan@hotmail.com, sp. environmental microbiology.
- 2003 **Shah,** Nimish Arun, b. 1967, Ph.D. (Mumbai), FNASc, Department of Mathematics, The Ohio State University, Columbus, OH 43210, USA, Tel. Off. (+1-614) 292 5088, Res. (+1-614) 273 0309, Fax (+1-614) 292 1479, email: shah@math.ohio-state.edu, URL: https://people.math.osu.edu/shah.595/, sp. ergodic theory; Lie groups; number theory.
- 2005 **Shaha,** Chandrima, b. 1952, Ph.D. (Calcutta), FNA, FNASc, Director, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2671 7102-03, Res. (011) 2674 2528; (011) 2670 3602, Mobile: 99584 20001, Fax (011) 2671 7104, email: cshaha@nii.ac.in, URL: http://www1.nii.res.in/research/chandrima-shaha, sp. cell biology & biochemistry. **Council Service**: 2013–.
- Shaila, Melkote Subbarao, b. 1945, Ph.D. (IISc), Professor Emeritus, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2702, Mobile: 98451 89481, Fax (080) 2360 2697, email: shaila@mcbl.iisc.ernet.in, sp. molecular virology & viral immunology.
- 2004 **Shanbhag,** Bhagyashri Achut, b. 1950, Ph.D. (Karnatak), FNA, FNASc, INSA Senior Scientist, Department of Marine Biology, Karnatak University PG Centre, Kodibag, Karwar 581 303, Tel. Res. (08382) 22 6377, Mobile: 94481 84536, email: bhagyashrishanbhag@gmail.com, sp. comparative endocrinology & reproduction (vertebrates); herpetology; animal behaviour.
- 2011 **Shankar,** Doraiswamy, b. 1967, Ph.D. (Goa), FNASc, CSIR-National Institute of Oceanography, Dona Paula 403 004, Tel. Off. (0832) 245 0312, Res. (0832) 246 4516, Mobile: 94233 19557, Fax (0832) 245 0603, email: shankar@nio.org; dshankar67@gmail.com, sp. tropical ocean dynamics; ocean-atmosphere interaction; monsoons.

- 1992 **Shankar,** Pattamadai Narasimhan, b. 1944, Ph.D. (Caltech), Res. 33/1, Kasturba Road Cross, Bengaluru 560 001, Tel. (080) 2221 7404, email: pn\_shankar55@rediffmail.com, sp. engineering science; fluid dynamics.
- 1991 **Shanmugam,** Govindaswamy, b. 1938, Ph.D. (Osmania), FNA, FNASc, Res. 3/118C, Kalvi Nagar, near Madurai Kamaraj University, Madurai 625 021, Tel. & Fax (0452) 245 8228, Mobile: 94885 86228, email: shan1938@yahoo.com, sp. molecular virology; cancer biology; medicinal plants.
- 2012 **Sharma,** Amit Prakash, b. 1968, Ph.D. (Northwestern), FNASc, Group Leader & Staff Scientist, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2674 1731, Res. (011) 2613 8674, Mobile: 98101 11336, email: amit.icgeb@gmail.com, sp. structural biology; malaria; protein translation.
- 2002 **Sharma,** Anurag, b. 1955, Ph.D. (IIT, Delhi), FNA, FNASc, FNAE, Department of Physics, Indian Institute of Technology, New Delhi 110 016, Tel. Off. (011) 2659 1350, Res. (011) 2686 7022, Mobile: 98183 55884, Fax (011) 2658 1114, email: asharma@ physics.iitd.ac.in, sp. fibre & integrated optics; gradient-index optics; applied optics.
- Sharma, Arun Kumar, b. 1924, D.Sc. (Calcutta), FNA, FNASc, FTWAS, Res. Flat 2F2, Meghmallar, 18/3 Gariahat Road, Kolkata 700 019, Tel. (033) 2440 5802, Fax (033) 2476 4419, email: nuclaks@gmail.com, sp. cytogenetics; cytochemistry & cell biology, Council Service: 1977–82.
- Sharma, Ashutosh, b. 1961, Ph.D. (SUNY, Buffalo), FTWAS, FNA, FNAE, FNASc, Institute Chair Professor, Department of Chemical Engineering & Center of Nanoscience, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7026, Res. (0512) 259 8504, Fax (0512) 259 0104, email: ashutos@iitk.ac.in, URL: www.iitk.ac.in/che/as.htm, sp. soft nanotechnology & micro/nano-fabrication; nanomechanics; thin films & self-organization; functional interfaces; colloid & interface science; carbon nanomaterials, devices & composites in health, energy and environment. Council Service: 2013—.

- Sharma, Kamal Nath, b. 1929, MD (Lucknow), FNA, FAMS, Emeritus Professor, National Academy of Medical Science, Delhi; Executive Director, MS Ramaiah Medical Institutions & Hospitals, Bengaluru 560 054, Tel. Off. & Fax (080) 2218 3202; (080) 2360 6031, Res. (080) 2341 4004, email: drsharmakn@yahoo.com, sp. neurophysiology; biocontrols; hospital planning.
- Sharma, Man Mohan, b. 1937, Ph.D. (Cantab), D.Sc. (h.c.), D.Engg. (h.c.), L.L.D. (h.c.), FNA, FRS, Emeritus Professor, ICT, Mumbai; Res. 2/3, Jaswant Baug, Runwal Park, behind Akbarally, V.N. Purav Marg, Chembur, Mumbai 400 071, Tel. (022) 2529 1539; (022) 2529 6876, email: profmmsharma@gmail.com, sp. multiphase reactions/reactors; separations. Council Service: 1986–88.
- 1987 **Sharma,** Ram Prakash, b. 1939, Ph.D. (Aligarh & London), Res. E-45, DGS Housing Society, Plot No. 6, Sector 22, Dwaraka, New Delhi 110 045, Tel. (011) 2805 1102, Mobile: 95600 28402, email: drrp\_sharma@yahoo.co.in, sp. organic chemistry; natural products chemistry; new synthetic methods.
- 1989 **Sharma,** Ram Swaroop, b. 1937, Ph.D. (Basel), FNA, Res. 70/36, Pratapnagar, Sector 7, Sanganer (RHB), Jaipur 302 033, Tel. (0141) 279 0317, Mobile: 94148 88025, email: sharma.r.sw@gmail.com, sp. metamorphic petrology; mineralogy; precambrian geology.
- Sharma, Rameshwar Prasad, b. 1940, Ph.D. (IARI/Agra), FNA, FNASc, FNAAS, INSA Honorary Scientist, National Research Centre on Plant Biotechnology, Indian Agricultural Research Institute, New Delhi 110 012, Tel. Off. (011) 2584 1787, Mobile: 98106 78220, Fax (011) 2576 6420, email: rpsnrcpb@yahoo.co.in, sp. developmental genetics; mutagenesis; molecular biology; biotechnology.
- 2003 Sharma, Shobhona, b. 1953, Ph.D. (Bombay), FNA, Senior Professor & Chair, Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2625; (022) 2278 2570, Res. (022) 2280 4745, Mobile: 99872 60961; 98923 52830. Fax (022) 2280 4610, email: sharma@tifr.res.in, sp. molecular parasitology; parasite immunology; parasite metabolism.

- Sharma, Surendra Kumar, b. 1951, MD (PGIMER, Chandigarh), Ph.D. (AIIMS), FNASc, FNA, JC Bose National Fellow, Head, Department of Medicine, All India Institute of Medical Sciences, New Delhi 110 029, Tel. Off. (011) 2659 4415; (011) 2659 3303, Res. (011) 2658 8154, Mobile: 98683 97247; 98990 88092, Fax (011) 2658 9994, email: sksharma.aiims@gmail.com, sp. internal medicine; pulmonary & critical care medicine; sleep medicine; infectious diseases; environmental medicine.
- 2008 **Sharma,** Surinder Mohan, b. 1952, Ph.D. (Bombay), FNASc, Associate Director, Physics Group & Head, High Pressure and Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400 085, Tel. Off. (022) 2559 3690, Res. (022) 2556 7483, Fax (022) 2559 2183, email: smsharma@barc.gov.in, sp. condensed matter physics under high pressures; synchrotron beamlines; molecular dynamics & first principles calculations.
- 2012 **Sharma,** Vijay Kumar, b. 1967, Ph.D. (NEHU), FNA, Chairman, Chronobiology Lab, Evolutionary & Organismal Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2843, Res. (080) 2362 2772, Mobile: 94484 50067, Fax (080) 2208 2766, email: vsharma@jncasr.ac.in; vksharmas@gmail.com, sp. chronobiology; evolution; animal behaviour.
- 1998 **Sharma,** Vinod Prakash, b. 1938, D.Phil. & D.Sc. (Allahabad), FNA, FNASc, FAMS, FTWAS, Res. B9/6476 FF, Vasant Kunj, New Delhi 110 070, Tel. Off. (011) 2659 1161, Res. (011) 2613 4608, Mobile: 98107 06411, Fax (011) 4606 3722, email: vinodsharma@gmail.com, sp. malariology; vector biology & control.
- Sharma, Yagya Dutta, b. 1951, Ph.D. (Rohilkhand), FNA, FNASc, Head, Department of Biotechnology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2659 4609; (011) 2659 3306, Mobile: 98108 44106, Fax (011) 2658 9286, email: ydsharma\_aiims@yahoo.com; ydsharma@hotmail.com, sp. molecular biology; molecular malariology; protein chemistry.
- Sharma, Yogendra, b. 1959, Ph.D. (Calcutta), Chief Scientist, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2561, Res. (040) 6730 7250, Mobile: 99086 30358, Fax (040) 2716 0591, email: yogendra@ccmb.res.in; yogen.ccmb@gmail.com, URL: http://www.ccmb.res.in/staff/yogendra/yogendra.html, sp. biophysics; biochemistry; protein structure & function.

- Shashidhar, Ranganathan, b. 1946, Ph.D. (Mysore), Senior Vice-President, Polestar Technologies Inc., 2121 Eisenhower Avenue, Suite 222, Alexandria, VA 22314, USA, Tel. Off. (+1-703) 615 1023; (+1-703) 299 4446-7, Res. (+1-571) 970 5083, Fax (+1-703) 299 4448, email: rshashidhar@polestartech.com; shashidhar30@comcast.net, sp. liquid crystals & materials sconce; nanoscience, nanotechnology & nanostructured materials; molecular & organic electronics; biomedical devices; sensors & detectors for CB agents; biofuel cells.
- 2007 **Shashidhara,** Lingadahalli Subrahmanya, b. 1963, Ph.D. (Cambridge), FNA, FNASc, Co-ordinator, Biology, Indian Institute of Science Education & Research, 900, NCL Innovation Park, Homi Bhabha Road, Pune 411 008, Tel. Off. (020) 2590 8001, Res. (020) 2588 3086, Mobile: 98234 32303, Fax (020) 2589 9790, email: Is.shashidhara@iiserpune.ac.in, sp. developmental biology; evolution; genetics.
- Shastry, Balajapalli Sriram, b. 1950, Ph.D. (Bombay), FNA, FNASc, FTWAS, Distinguished Professor, Department of Physics, University of California, Santa Cruz, CA 95064, USA, Tel. Off. (+1-831) 459 5849, Res. (+1-831) 426 1098, Fax (+1-831) 459 3043, email: sriram@physics.ucsc.edu; b.sriram.shastry@gmail.com, URL: physics.ucsc.edu/~sriram/sriram.html, sp. strongly correlated fermi systems; quantum integrable systems.
- 1975 **Shastry,** Sishta Venkata Seetharama, b. 1928, Ph.D. (Wisconsin), FNA, Res. 'Ashoka', 202, Gautami Apartments, Barkatpura, Hyderabad 500 027, Tel. (040) 2755 1666, sp. cytogenetics; taxonomy; plant breeding; rice development.
- 2007 **Shenoi,** Sadananda Satheesh Chandra, b. 1958, Ph.D. (Cochin), FNASc, Director, Indian National Centre for Ocean Information Services, Ocean Valley, Pragati Nagar (BO), Nizampet P.O., Hyderabad 500 090, Tel. Off. (040) 2389 5000, Res. (040) 6574 3155, Mobile: 94410 13377, email: shenoi@incois.gov.in, sp. physical oceanography; ocean-atmosphere interaction; satellite oceanography.
- Shenoy, Subodh Raghunath, b. 1947, Ph.D. (Yale), TIFR Centre for Interdisciplinary Sciences, 21, Brundavan Colony, Narsingi, Hyderabad 500 075, Tel. Off. (040) 2419 5014, Mobile: 99491 98515, Fax (040) 2419 5041, email: subodhrshenoy@tifrh.res.in; subodhrshenoy@gmail.com, sp. condensed matter physics; statistical physics.

- 2013 **Shenoy**, Vijay Balakrishna, b. 1971, Ph.D. (Brown), Associate Professor, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2888, Res. (080) 2360 5620, Mobile: 94490 55620, Fax (080) 2360 2315, email: shenoy@physics.iisc.ernet.in, URL: http://www.physics.iisc.ernet.in/~shenoy/, sp. condensed matter theory; strongly-correlated systems; cold atom physics.
- Shetty, Hunthrike Shekar, b. 1944, Ph.D. (Mysore), FNAAS, FNASc, Emeritus Professor, Department of Studies in Applied Botany & Biotechnology, University of Mysore, Manasagangotri, Mysore 570 006, Tel. Off. & Fax (0821) 251 5126, Res. (0821) 251 5127, Mobile: 94498 37566, email: hss\_uom@hotmail.com; hss@appbot.uni-mysore.ac.in, sp. seed biology; seed pathology & technology; molecular plant pathology; biotechnological approaches to plant disease management.
- 1992 **Shetye,** Satish Ramnath, b. 1950, Ph.D. (Washington), FNA, FNASc, Vice Chancellor, Goa University, Taleigao Plateau, Goa 403 206, Tel. Off. (0832) 651 9001, Res. (0832) 245 1660, Mobile: 90110 56605, Fax (0832) 245 1184; (0832) 245 2889, email: shetye@unigoa.ac.in, sp. physical oceanography. **Council Service:** 1998–2003.
- Shivaji, Sisinthy, b. 1950, Ph.D. (Delhi), FNASc, Research Consultant, Jhaveri Microbiology Centre, L V Prasad Eye Institute, L V Prasad Marg, Banjara Hills, Hyderabad 500 034, Tel. Off. (040) 3061 2512; (040) 3061 2534, Res. (040) 2717 1268, Mobile: 98496 50285, Fax (040) 2354 8271, email: shivas@ccmb.res.in; shivas@lvpei.org, sp. reproductive biology; conservation biology; mammalian sperm function; bacterial biodiversity of cold habitats; cold adaptation.
- Shivanna, Kundaranahalli Ramalingaiah, b. 1940, Ph.D. (Delhi), FNA, FNAAS, FNASc, Odekar Farms, Nandihalli, via Thovinakere, Tumkur 572 138, email: shivanna@atree.org, sp. pollen biology; reproductive ecology; conservation biology.
- 2010 **Shivashankar,** Ganaganor Visweswara, b. 1968, Ph.D. (Rockefeller), Associate Professor, National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6060, Fax (080) 2363 6662, email: shiva@ncbs.res.in; shiva.gvs@gmail.com, sp. biophysics; cell biology; gene expression.

- Shorey, Tarlok Nath, b. 1945, Ph.D. (Bombay), FNA, FNASc, Distinguished Professor, Department of Mathematics, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 9451, Res. (022) 2572 6623, email: shorey@math.iitb.ac.in, sp. theory of numbers.
- 1974 **Shrikhande,** Sharadchandra Shankar, b. 1917, Ph.D. (North Carolina), FNA, FNASc, Chinmaya Vijaya Orphanage, Kaza Village, Mangalagiri Mandal, Guntur 522 503, Mobile: 77024 20555, email: drssshrik@yahoo.com, sp. combinatorial mathematics & graph theory.
- 2012 Shukla, Ashok Kumar, b. 1947, Ph.D. (IIT, Kanpur), FNA, FNASc, FNAE, Honorary Professor, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2795, Res. (080) 2337 4075, Mobile: 94482 74075, Fax (080) 2360 1310, email: akshukla2006@gmail.com, sp. materials electrochemistry; fuel cells; batteries & supercapacitors.
- Shyamasundar, Rudrapatna Kallikote, b. 1950, Ph.D. (IISc), FNA, FNASc, FTWAS, FNAE, FIEEE, Senior Professor & JC Bose National Fellow, Technology & Computer Science Faculty, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2288, Res. (022) 2280 4713, Mobile: 98183 20188, Fax (022) 2280 4610–1, email: shyam@tifr.res.in, URL: www.tcs.tifr.res.in/~shyam, sp. specification & verification; real-time & logic programs; mobile computing; computer security. Council Service: 2013–.
- 2008 **Siddiqi, Imran**, b. 1957, Ph.D. (Oregon), FNA, Scientist, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2570, Res. (040) 2715 8119, Mobile: 98666 33195, Fax (040) 2716 0591, email: imran@ccmb.res.in; imransiddi@gmail.com, sp. genetics; plant development; genetic recombination.
- 2012 **Sikdar,** Sujit Kumar, b. 1957, Dr.Med.Sci. (Kyushu), Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2844; (080) 2293 3220, Res. (080) 2341 1580, Fax (080) 2360 0535, email: sks@mbu.iisc.ernet.in, sp. cellular neurophysiology; ion channel physiology; pharmacology & biophysics; calcium dynamics.

- Sikka, Devraj, b. 1932, M.Sc. (Agra), Res. 40, Mausam Vihar, Delhi 110 051, Tel. (011) 2241 0156, Mobile: 99586 63373, email: drsikka@yahoo.com, sp. monsoon, tropical & satellite meteorology; climate change; aerosol monsoon connections; dynamics of Himalayan glaciers.
- 1990 **Sikka,** Satinder Kumar, b. 1942, Ph.D. (Bombay), FNA, FNASc, Res. House No. 538, Sector 17, Faridabad 121 002, Tel. (0129) 408 6016, Mobile: 99588 57056, email: sksikka@nic.in, sp. high pressure physics; X-ray & neutron diffraction; band theory; nuclear explosions.
- Simon, Rajiah, b. 1948, Ph.D. (IISc), FNA, SERB Distinguished Fellow, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3120, Res. (044) 2451 0280, Mobile: 94441 11865, Fax (044) 2254 1586, email: simon@imsc.res.in, sp. quantum & classical optics; quantum information science; foundations of quantum theory.
- 2001 Singh, Anil Kumar, b. 1952, Ph.D. (IIT, Kanpur), FNASc, Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7167; (022) 2576 7151, Res. (022) 2576 8167; (022) 2572 1761, Fax (022) 2576 7152, email: retinal@chem.iitb.ac.in, sp. organic chemistry; bioorganic chemistry; photochemistry; photobiology.
- Singh, Balwant, b. 1940, Ph.D. (Bombay), FNA, Senior Scientist, UM-DAE Centre for Excellence in Basic Sciences, Mumbai; Res. 105, Vaigyanik Society, Plots 58–59, Sector 14, Vashi, Navi Mumbai 400 703, Tel. Res. (022) 2788 2238, Mobile: 98924 50089, email: balwantbagga@gmail.com, sp. algebraic geometry; commutative algebra.
- 1974 **Singh,** Bam Bahadur, b. 1938, Ph.D. (Shrivenham, UK), FNASc, D-7, Fair Lawn, V.N. Purav Marg, Chembur, Mumbai 400 071, Tel. Off. (022) 2204 9723, Res. (022) 2520 7210, Mobile: 98210 05336, Fax (022) 2204 0664, email: drbbsingh@mtnl.net.in; drbbsingh2010@gmail.com, sp. radiation biology; biophysics; intellectual property rights; nuclear & constitutional laws.
- 2013 **Singh,** Bhim, b. 1956, Ph.D. (IIT, Delhi), FNASc, FNAE, FIEEE, FNA, Department of Electrical Engineering, Indian Institute of Technology, New Delhi 110 016, Tel. Off. (011) 2659 1045, Res. (011) 2659 1890, Mobile: 98115 02125, Fax (011) 2658 1606, email: bsingh@ee.iitd.ac.in; bhimsinghr@gmail.com, sp. power electronics, renewable energy generation.

- Singh, Digvijai, b. 1934, Ph.D. (Wisconsin), FNA, FNASc, FNAE, Visitor, Amity University, Noida; Res. No. 1002, Tower 2, Sunbreeze Apartments, Vaishali, Sector 5, Plot 3, Ghaziabad 201 010, Tel. Off. (0120) 439 2464, Res. (0120) 412 7783, Mobile: 98106 03439, email: dvsingh@comcast.net, sp. dynamics of mechanical systems; stress analysis; tribology; stability of vehicles; tyre mechanics; pavement engineering.
- 2007 **Singh,** Harkesh Bahadur, b. 1956, Ph.D. (Lucknow & Aston), FNASc, FNA, Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off. (022) 2576 7190, Res. (022) 2577 0675, Mobile: 93238 40676, Fax (022) 2572 3480, email: chhbsia@chem.iitb.ac.in, sp. main group chemistry; organo-chalcogen chemistry; organometallic chemistry.
- Singh, Jamuna Sharan, b. 1941, Ph.D. (Banaras), FNA, FNASc, FTWAS, Professor Emeritus, Department of Botany, Banaras Hindu University, Varanasi 221 005, Tel. Off. (0542) 236 8399, Res. (0542) 257 0120, Mobile: 93351 78355, Fax (0542) 236 8174, email: jssingh@bhu.ac.in; singh.js1@gmail.com; singh\_js1@yahoo.com, sp. plant ecology; ecosystems analysis; eco-physiology.
- 2000 **Singh,** Kulinder Pal, b. 1952, Ph.D. (Bombay), FNASc, Senior Professor, Department of Astronomy & Astrophysics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2376, Res. (022) 2280 4561, Fax (022) 2280 4610, email: singh@tifr.res.in, URL: www.tifr.res.in/~singh, sp. X-ray instrumentation for astronomy; active galactic nuclei; hot interstellar & intracluster medium; stellar coronae & binary X-ray sources.
- Singh, Lalji, b. 1947, Ph.D. (Banaras), FNA, FNASc, FNAAS, FAMS, FTWAS, JC Bose National Fellow, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2716 0053; (040) 2719 2634, Mobile: 98480 37558, email: lalji@ccmb.res.in; genomefoundation@gmail.com, sp. molecular biology; DNA fingerprinting; wildlife conservation; genetic diversity in Indian populations.
- Singh, Mewa, b. 1951, Ph.D. (Mysore), FNA, FNASc, Raja Ramanna Fellow, Life-Long Distinguished Professor, Department of Psychology, University of Mysore, Manasagangotri, Mysore 570 006, Tel. Off. & Fax (0821) 241 9372, Res. (0821) 290 3129, Mobile: 94486 03506, email: mewasinghltm@gmail.com; msingh@psychology.uni-mysore.ac.in, URL: http://www.uni-mysore.ac.in/dr-mewa-singh/, sp. animal behaviour; wildlife ecology; sociobiology.

- Singh, Randhir, b. 1944, Ph.D. (Panjab Agri. Univ.), FNA, FNASc, FNAAS, Director General, Doon Valley Group of Institutes, Sector 17, Outside Jundla Gate, Karnal 132 001, Tel. Off. (0184) 227 0060-61, Fax (0184) 225 4670, Mobile: 82954 21000, email: randhirbiotech@yahoo.com, sp. plant biochemistry & biotechnology.
- Singh, Rishi Narain, b. 1943, Ph.D. (Banaras), FNA, INSA Senior Scientist, CSIR National Geophysical Research Institute, Uppal Road, Hyderabad 500 606, Tel. Off. (040) 2701 2804, Res. (040) 2715 0570, Mobile: 93463 52339, Fax (040) 2343 4651, email: rishiprema@gmail.com; rnsingh@ngri.res.in, sp. geophysics; geophysical & environmental modelling.
- 1993 **Singh,** Sarva Jit, b. 1939, Ph.D. (Kurukshetra), FNA, FNASc, Res. 22A, Navyug Adarsh Apartments, F Block, Vikas Puri, New Delhi 110 018, Tel. (011) 2854 9222, Mobile: 93122 50454, email: s\_j\_singh@yahoo.com, sp. theoretical seismology; applied mathematics.
- Singh, Tej Pal, b. 1944, Ph.D. (IISc), D.Sc.(h.c.), FNA, FNASc, FTWAS, Distinguished Biotechnology Research Professor, Department of Biophysics, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2658 8931, Res. (0120) 297 0172, Mobile: 93122 49508; 99538 30047, Fax (011) 2658 8863, email: tpsingh.aiims@gmail.com, sp. structural biology; protein structures; peptide design; drug discovery.
- Singh, Vinod Kumar, b. 1959, Ph.D. (Baroda), D.Sc.(h.c.), FNA, FNASc, Director, Indian Institute of Science Education & Research, Indore Bypass Road, Bhauri, Bhopal 462 066, Tel. Off. (0755) 669 2316, Res. (0755) 669 2400, Mobile: 99811 44455, Fax (0755) 669 2392, email: vinodks@iitk.ac.in, sp. synthetic organic chemistry.
- 1970 **Singh,** Virendra, b. 1938, Ph.D. (UC Berkeley), FNA, FNASc, FTWAS, Res. 51, New Cosmos, Juhu-Versova Link Road, Andheri (West), Mumbai 400 053, Tel. (022) 2671 6681, email: vsingh1937@ gmail.com, URL: http://theory.tifr.res.in/~vsingh/, sp. theoretical physics; quantum mechanics; history & philosophy of science. Council Service: 1977–82.

- Singh, Yashwant, b. 1944, D.Phil. (Calcutta), FNA, FNASc, INSA Senior Scientist, Department of Physics, Banaras Hindu University, Varanasi 221 005, Tel. Off. (0542) 670 1562, Mobile: 94159 91459, Fax (0542) 236 8468, email: ysingh@bhu.ac.in; singh.yas44@gmail.com, sp. condensed matter physics; statistical mechanics; biological physics.
- 2011 Singh, Yogendra, b. 1957, Ph.D. (Delhi), FNASc, FNA, Chief Scientist, CSIR Institute of Genomics & Integrative Biology, Mall Road, Delhi 110 007, Tel. Off. (011) 2766 6156, Res. (011) 2748 4675, Mobile: 98710 95673, Fax (011) 2766 7471, email: ysingh@igib.res.in, sp. bacterial pathogenesis; biochemistry; cell biology.
- Singhi, Navin Kumar Madhavprasad, b. 1949, Ph.D. (Bombay), FNA, Distinguished Professor, Department of Mathematics, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Res. (022) 2633 7165, Mobile: 93241 11460, email: navin@math.iitb.ac.in, sp. discrete mathematics; designs & finite geometries.
- Singhvi, Ashok Kumar, b. 1950, Ph.D. (IIT, Kanpur), FNA, FNASc, FTWAS, Honorary Scientist, Geosciences Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009, Tel. Off. (079) 2631 4366; (079) 2631 4370, Res. (079) 2685 5831, Mobile: 90990 61962, Fax (079) 2631 4912, email: singhvi@prl.res.in, URL: http://www.prl.res.in/~singhvi/, sp. quaternary geochronology; earth surface processes; past climates; tectonics; radiation effects in minerals.
- 1974 **Sinha,** Akhoury Purnendu Bhusan, b. 1928, Ph.D. (London), FNA, Res. 1260, Brighton Avenue, No. 107, Albany, California 94706, USA, email: apbsinha@yahoo.com, Tel. (+1-510) 525 7263, sp. solid state materials.
- 2004 **Sinha,** Bikash Chandra, b. 1945, Ph.D. (London), D.Sc. (London), FNA, FNASc, FTWAS, DAE Homi Bhabha Professor, Variable Energy Cyclotron Centre, 1/AF, Bidhan Nagar, Kolkata 700 064, Tel. Off. (033) 2337 0032, Res. (033) 2475 2206, Fax (033) 2334 6871, email: bikash@vecc.gov.in, sp. nuclear physics; high energy physics; quark gluon plasma; early universe cosmology; nuclear medicine; helium from thermal springs.

- Sinha, Kalyan Bidhan, b. 1944, Ph.D. (Rochester), FNA, FTWAS, SERB Distinguished Fellow & Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2997, Res. (080) 2366 5608, Mobile: 99001 44612, Fax (080) 2208 2897, email: kbs@jncasr.ac.in, sp. spectral theory of operators; non-commutative geometry; stochastic processes. Council Service: 1992–97, 2010–12; Vice-President: 1995–97, 2010–12.
- Sinha, Krityunjai Prasad, b. 1929, Ph.D. (Pune & Bristol), FNA, FNASc, INSA Honorary Scientist, IISc, Bengaluru; Res. Sterling Residency, D-105, RMV II Stage, Dollars Colony, Bengaluru 560 094, Tel. Res. (080) 2351 8553, email: kritpsinha@gmail.com; kpsin03@yahoo.com, sp. solid state & theoretical physics; complex systems & non-equilibrium quantum coupling; low-energy nuclear reactions; condensed matter nuclear science.
- 2000 **Sinha,** Pratima, b. 1952, Ph.D. (TIFR), FNASc, Res. D7/9 SF, Exclusive Floors, DLF City Phase 5, Gurgaon 122 009, Tel. (0124) 403 8150, Mobile: 99104 64794, email: pratima.sinha12@ gmail.com, sp. molecular genetics of yeast; molecular biology.
- Sinha, Somdatta, b. 1951, Ph.D. (JNU), FNA, FNASc, Professor of Biology, Indian Institute of Science Education and Research -Mohali, Sector 81, Knowledge City, Manauli P.O., SAS Nagar 140 306, Tel. Off. (0172) 229 3166, Mobile: 89687 44849, Fax (0172) 224 0266; (0172) 224 0124, email: ssinha@iisermohali.ac.in; somdattasinha@gmail.com, sp. theoretical biology; complex systems in biology; nonlinear dynamics; computational biology. Council Service: 2007–12.
- 2003 Sinha, Subrata, b. 1958, MD (AIIMS), Ph.D. (MRC, UK), FNA, FNASc, FAMS, Director, National Brain Research Centre, Nainwal Mode, Manesar, Gurgaon 122 050, Tel. Off. (0124) 233 8929, Res. (011) 2696 6586, Mobile: 98119 01376, Fax (0124) 233 8928, email: director@nbrc.ac.in; subrata.sinha@nbrc.ac.in, sp. molecular oncology & immunology.
- 2010 **Sinha,** Sudeshna, b. 1962, Ph.D. (TIFR), FNA, Indian Institute of Science Education & Research Mohali, Sector 81, Knowledge City, Manauli P.O., SAS Nagar 140 306, Tel. Res. (0172) 224 0019, Mobile: 99156 62755, email: sudeshna@imsc.res.in; sudeshna@iisermohali.ac.in, URL: http://www.imsc.res.in/~sudeshna, sp. nonlinear dynamics; chaos; complex systems.

- Sitaram, Alladi, b. 1947, Ph.D. (Washington), Res. 2B, Clairmont Apartments, 12, Rest House Crescent, Bengaluru 560 001, Tel. (080) 2558 6103, Mobile: 98441 29153, email: sitaram.alladi@gmail.com, sp. harmonic analysis on Euclidean spaces & on Lie groups. Council Service: 2001–03.
- 1990 **Sitaramam,** Vetury, b. 1946, M.B.B.S. (Madras), Ph.D. (IISc), Res. No. 18, S. No. 245, Anant Co-operative Housing Society, DP Road, Pune 411 007, Tel. (020) 2729 7808, Mobile: 98600 03258, email: sitaramamv@gmail.com, sp. bioenergetics; biomembranes; biochemistry.
- Sivaram, Swaminathan, b. 1946, Ph.D. (Purdue), D.Sc (h.c., Purdue), FNA, FNASc, FTWAS, FNAE, Polymers and Advanced Materials Laboratory, CSIR National Chemical Laboratory, Pune 411 008, Tel. Off. (020) 2590 3260; (020) 2590 2614, Res. (020) 4120 5731, Fax (020) 2590 2615, email: s.sivaram@ncl.res.in, URL: http://www.swaminathansivaram.in/, sp. polymer chemistry & technology; polymer surfaces & interfaces; structured polymers. Council Service: 2007–12; Vice-President: 2007–12.
- 1995 **Sivasanker,** Subramanian, b. 1944, Ph.D. (Madras), Chair Professor, National Centre for Catalysis Research, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4238, Res. (044) 4551 1960, Mobile: 98401 03865, Fax (044) 2257 5245, email: ssivasanker@iitm.ac.in, sp. industrial catalysis; petroleum refining & petrochemical production; green chemistry.
- 2008 **Somasundaram,** Kumaravel, b. 1962, Ph.D. (MKU), FNASc, FNA, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 7171, Res. (080) 2360 2136, Fax (080) 2360 2697, email: skumar@ mcbl.iisc.ernet.in, sp. cancer biology; genetics & virology.
- 1980 **Somayajulu,** Bhamidipati Lakshmidhara Kanakadri, b. 1937, Ph.D. (Bombay), FNA, FNASc, FTWAS, Res. No. 3, New Aangan Members' Association, Vastrapur, Ahmedabad 380 015, Tel. (079) 2674 7807, email: vasantisomayajulu52@yahoo.com, sp. nuclear oceanography; geochemistry; cosmic ray-produced radioisotopes.
- 2006 **Sonti,** Ramesh Venkata, b. 1960, Ph.D. (Utah), FNASc, FNAAS, FNA, Scientist, CSIR Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2577, Res. (040) 2715 0821, Mobile: 94410 55295, Fax (040) 2716 0591, email: sonti@ccmb.res.in, sp. plant-microbe interactions; plant genetics; bacterial genetics.

- Sood, Ajay Kumar, b. 1951, Ph.D. (IISc), FNA, FNASc, FTWAS, Department of Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 2238; (080) 2293 2964, Res. (080) 2360 8323, Fax (080) 2360 2602, email: asood@physics. iisc.ernet.in, URL: www.physics.iisc.ernet.in/~asood/, sp. Raman spectroscopy; time resolved ultrafast spectroscopy; nanosystems: graphene, nanotubes; physics of soft condensed matter. Council Service: 2001–; Secretary: 2001–06; Treasurer: 2007–09; President: 2010–12.
- Sopory, Sudhir Kumar, b. 1948, Ph.D. (Delhi), FNA, FNASc, FNAAS, FTWAS, Vice Chancellor, Jawaharlal Nehru University, New Delhi 110 067, Tel. Off. (011) 2674 1500; (011) 2670 4001, Res. (011) 2674 1555; (0129) 222 2208, Mobile: 98114 31741, Fax (011) 2674 2580, email: sopory@mail.jnu.ac.in; vc@mail.jnu.ac.in; sopory@hotmail.com, sp. molecular plant physiology; plant tissue culture & transformation. Council Service: 2001–06.
- 2013 **Souradeep,** Tarun, b. 1967, Ph.D. (Pune), Inter-University Centre for Astronomy & Astrophysics, Post Bag 4, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4212, Res. (020) 2560 4407, Mobile: 94226 44463, Fax (020) 2560 4699, email: tarun@iucaa.in; tarun.souradeep@gmail.com, URL: www.iucaa.ernet.in/~tarun, sp. cosmology; high energy physics; early universe.
- 2010 **Sowdhamini,** Ramanathan, b. 1964, Ph.D. (IISc), FNA, Associate Professor, National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6250, Res. (080) 2366 6473, Mobile: 93425 99179, Fax (080) 2363 6662, email: mini@ncbs.res.in, URL: http://caps.ncbs.res.in, sp. structural bioinformatics; protein domain superfamilies; genome-wide survey & function annotation of genes.
- Sreekantan, Badanaval Venkata, b. 1925, Ph.D. (Bombay), FNA, FNASc, Honorary Visiting Professor, School of Humanities, National Institute of Advanced Studies, IISc Campus, Bengaluru 560 012, Tel. Off. (080) 2218 5082, Res. (080) 2334 7434, Fax (080) 2360 6634, email: bvs@nias.iisc.ernet.in, sp. cosmic rays & high energy physics; high energy astronomics. Council Service: 1983–88, Vice-President: 1986–88.

- Srianand, Raghunathan, b. 1969, Ph.D. (Utkal), Scientist H, Inter-University Centre for Astronomy & Astrophysics, Post Bag 4, Ganeshkhind, Pune University Campus, Pune 411 007, Tel. Off. (020) 2560 4220, Res. (020) 2560 4412, Fax (020) 2560 4699, email: anand@iucaa.ernet.in, sp. QSO spectroscopy; cosmology; structure formation.
- 1989 **Sridharan,** Asuri, b. 1937, D.Sc. (IISc), Ph.D. (Purdue), FNA, FNAE, Res. No 40, West Park Road, Malleswaram, Bengaluru 560 003, Tel. (080) 2334 1046, Mobile: 98458 06379, email: asridhran@yahoo.com, sp. engineering properties of clays & clay mineralogy; foundation engineering.
- Sridharan, Rajagopal, b. 1948, Ph.D. (Gujarat), FNASc, NASI Senior Scientist, Physical Research Laboratory, Ahmedabad 380 009, Tel. Off. (079) 2631 4777, Res. (079) 2675 1361, Mobile: 94291 99824, Fax (079) 2631 4659, email: r\_sridharan777@yahoo.co.in; sridharan@prl.res.in, sp. solar terrestrial physics; space physics; optical aeronomy; planetary atmospheres.
- Sridharan, Ramaiyengar, b. 1935, Ph.D. (Columbia), FNA, FNASc, Adjunct Professor, Chennai Mathematical Institute, H1, SIPCOT IT Park, Padur Post, Siruseri, Kelambakkam, Chennai 603 103, Tel. Off. (044) 2747 0227/1231, Res. (044) 2448 3692, Fax (044) 2747 0225, email: rsridhar@cmi.ac.in, sp. algebra.
- 1994 **Srinivas,** Vasudevan, b. 1958, Ph.D. (Chicago), FNA, Senior Professor, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2217, Res. (022) 2280 4966, Fax (022) 2280 4610, email: srinivas@math.tifr.res.in, sp. algebraic geometry; algebraic *K*-theory; commutative algebra.
- 1984 **Srinivasan,** Ganesan, b. 1942, Ph.D. (Chicago), Res. 190, I Main Road, I Block, BEL Layout, Vidyaranyapura, Bengaluru 560 097, Tel. (080) 2364 2378, Mobile: 96118 39690, email: gsrini1942@ gmail.com, sp. condensed matter physics; astrophysics. **Council Service:** 1986–2003; Secretary: 1986–88; Editor of Publications: 1989–94; Treasurer: 1995–2003.
- 1992 **Srinivasan,** Jayaraman, b. 1947, Ph.D. (Stanford), FNA, FNAE, Chairman, Divecha Centre for Climate Change; Honorary Professor, Centre for Atmospheric & Oceanic Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3068, Res. (080) 2331 4998, Fax (080) 2293 3425, email: jayes@caos. iisc.ernet.in, sp. thermal science; climate science & solar energy. Council Service: 2007–; Secretary: 2007–12; Treasurer: 2013–.

- **Srinivasan,** Mandakolathoor Subrahmanya, b. 1938, Ph.D. (Wellington), FNA, FNASc, FTWAS, Emeritus Professor, Department of Geology, Banaras Hindu University, Varanasi; Res. 42/4, HIG Flats, Kabir Nagar, Durgakund, Varanasi 221 005, Tel. Off. (0542) 230 7310, Res. (0542) 231 1887, Mobile: 94505 31962, Fax (0542) 236 8174, email: mssrinivasan@rediffmail.com, sp. micropalaeontology; palaeoceanography; marine geology.
- **Srinivasan,** Narayanaswamy, b. 1962, Ph.D. (IISc), FNASc, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2837, Res. (080) 6717 6473, Mobile: 93421 07047, Fax (080) 2360 0535, email: ns@mbu.iisc.ernet.in; iiscsrinivasan@gmail.com, sp. protein functions, structures & evolution; bioinformatics in genomics; metabolism & signal transduction.
- **Srinivasan,** Ramaswami, b. 1931, Ph.D. (Madras), Res. 143, V Cross, III Main Road, I Stage, Vijayanagar Extension, Mysore 570 017, Tel. (0821) 251 7504, email: rsvmys@gmail.com, sp. lattice dynamics; cryogenics; laser cooling of atoms.
- Srinivasan, Ramaswamiah, b. 1943, Ph.D. (Mysore), FNA, FNASc, INSA Senior Scientist, Centre for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bengaluru; Res. 114, Kshitija, Ramanashree Nagar, SOS Post, Bannerghatta Road, Bengaluru 560 076, Tel. Off. (080) 2360 2741; (080) 2266 1276, Res. (080) 2643 2614, Mobile: 96323 19090, Fax (080) 2360 0865, email: srinimalu@gmail.com, sp. precambrian geology; archaean sedimentation & palaeobiology; geochemistry.
- **Srivastava,** Deepak Chandra, b. 1956, Ph.D. (ISM, Dhanbad), FNA, FNASc, JC Bose National Fellow, Department of Earth Sciences, Indian Institute of Technology, Roorkee 247 667, Tel. Off. (01332) 28 5558, Res. (01332) 27 5112; (01332) 28 5112, Mobile: 97600 24767; 94563 81281, Fax (01332) 27 3560, email: dpkesfes@gmail.com; dpkesfes@iitr.ernet.in, sp. structural geology & fluid inclusions.
- **Srivastava**, Rajesh Kumar, b. 1961, Ph.D. (Banaras), FNASc, Centre for Advanced Study, Department of Geology, Banaras Hindu University, Varanasi 221 005, Tel. Off. (0542) 670 1358, Res. (0542) 257 0925, Mobile: 94158 12079, Fax (0542) 236 9239, email: rajeshgeolbhu@gmail.com, sp. igneous petrology; geochemistry; precambrian geology.

- 1975 **Subba Rao,** Bookinkere Channakeshavaiah, b. 1923, Ph.D. (Purdue), Res. Sri Ganga, No. 8, Temple Road, Jayalakshmipuram, Mysore 570 012, Tel. (0821) 251 0882, Mobile: 99456 53703, email: subbaraobc@gmail.com, sp. applied organic chemistry; industrial chemistry.
- Subba Rao, Bookinkere Ramakrishnaiya, b. 1925, Ph.D. & D.Sc. (Mysore), Res. 29, Osward Road, Bcalham, London SW17 7SS, UK, Tel. (+44-20) 8767 7121, email: raosubba@yahoo.com; bs. subbarao@yahoo.com, sp. entomology; taxonomy of chalcidoidea; biological control.
- Subba Rao, Ganugapati Sree Rama, b. 1937, Ph.D. (Manchester), D.Sc. (Andhra), FNA, INSA Honorary Scientist, Department of Organic Chemistry, Indian Institute of Science, Bengaluru; Res. 1A, Pradhan Apartments, 16/5, 18th Cross, Malleswaram, Bengaluru 560 055, Tel. Res. (080) 2346 6430, Mobile: 98863 10603, email: gsrs@orgchem.iisc.ernet.in; gsrsrao@yahoo.com, sp. synthetic & mechanistic organic chemistry; natural products chemistry.
- 1988 Subba Rao, Gundlapalli Venkata, b. 1940, Ph.D. (IIT, Kanpur), FNA, Res. 12, Westlake Drive, South Barrington, IL 60010, USA, Tel. Off. (+1-847) 426 3987, email: gvsr2012@gmail.com, sp. materials science; solid state chemistry.
- Subbarao, Eleswarapu Chinna, b. 1928, Ph.D. (Penn. State), FNA, FNAE, Chief Consulting Adviser, Tata Consultancy Services Limited, 54B, Hadapsar Industrial Estate, Hadapsar, Pune 411 013, Tel. Off. (020) 2681 2226; (020) 6608 6267, Mobile: 98509 65686, Fax (020) 6608 6399, email: ec.subbarao@tcs.com; ecsubbarao@gmail.com, sp. materials science; renewable energy; R&D management.
- Subbarao, Kaigala Venkata, b. 1942, Ph.D. (SV Univ.), Res. Flat No. 201, Aliens Valley Alps, Diamond Heights Layout, Plot No-D.H. 87 & 88, Near Aparna Sarovar, Gopannapllai, Hyderabad 500 046, Tel. (040) 6581 3178, Mobile: 99896 64093, email: kvsubbarao\_iitb@yahoo.co.in, sp. volcanology; igneous petrology; palaeomagnetism.
- 1993 **Subrahmanya,** Chelur Ramachandra, b. 1948, Ph.D. (Bombay), Emeritus Professor, Raman Research Institute, C.V. Raman Avenue, Bengaluru 560 080, Tel. Off. 94808 36126, Res. (080) 2364 3355, Fax (080) 2361 0492, email: crs@rri.res.in, sp. real time signal processing for radio telescopes; observational cosmology; satellite orbit estimation.

- 1995 **Subrahmanyam,** Nekkalapudi Chinna, b. 1943, Ph.D. (Guelph, Canada), FNA, FNAAS, Res. 76, Hill Road, Balwyn North, Victoria 3104, Australia, Tel. (+61) 401 404 617, email:ncsubra@hotmail.com, sp. genetics; plant molecular biology; biotechnology.
- 2014 **Subramaniam,** Annapurni, b. 1968, Ph.D. (Bangalore), FNASc, Associate Professor, Indian Institute of Astrophysics, Sarjapur Road, Bengaluru 560 034, Tel. Off. (080) 2254 1318, Res. (080) 2553 2088, Mobile: 98451 71233, Fax (080) 2553 4043, email: purni@iiap.res.in, URL: http://www.iiap.res.in/people/personnel/purni/index.html, sp. star clusters; stellar evolution; stellar population; nearby galaxies, galactic dynamics.
- 1955 **Subramanian,** Chirayathumadom Venkatachalier, b. 1924, D.Sc. (Madras), FNA, FNAAS, Res. No. A-8, Damayanthi Apartments, 17, South Mada Street, Nungambakkam, Chennai 600 034, Tel. (044) 2823 4941, email: cvsubra1952@yahoo.co.in, sp. mycology; plant pathology; evolution. **Council Service:** 1974–85; Vice-President: 1977–85.
- 1972 **Subramanian,** Dubagunta, b. 1931, Ph.D. (Madras), Res. Flat No. 401, Abode Admire, Plot No. 886-890, Defence Colony, Sainikpuri, Secunderabad 500 094, Tel. (040) 2711 7164, Mobile: 95738 19165, email: subramaniansakku@gmail.com, sp. plant physiology & pathology; biochemistry; microbiology & biotechnology.
- Subramanian, Kandaswamy, b. 1957, Ph.D. (TIFR), Dean, Visitor Academic Programmes, Inter-University Centre for Astronomy and Astrophysics, Post Bag 4, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4101, Res. (020) 2560 4410, Mobile: 80073 24440, Fax (020) 2560 4699, email: kandu@iucaa.ernet.in, sp. cosmic magnetic fields; structure formation; cosmology.
- Subramanian, Sankaran, b. 1942, Ph.D. (Leicester), FNA, Scientist, Radiation Biology Branch, National Cancer Institute, National Institutes of Health, 9000 Rockville Pike, Bethesda, Maryland 20892, USA, Tel. Off. (+1-301) 443 6490, Res. (+1-301) 721 0473, Mobile: (+1-301) 704 1570, Fax (+1-301) 480 2238, email: subramsa@helix. nih.gov; subukannan@gmail.com, sp. NMR; EPR; theoretical chemistry; magnetic resonance imaging.

- Subramanian, Venkatesan, b. 1962, Ph.D. (Madras), FNASc, Senior Principal Scientist, Chemical Laboratory, CSIR Central Leather Research Institute, Adyar, Chennai 600 020, Tel. Off. (044) 2443 7150; (044) 2441 1630, Res. (044) 2238 3031, Mobile: 98402 64151, Fax (044) 2491 1589, email: subbu@clri.res.in; subuchem@hotmail.com, URL: http://www.clri.org/WriteRead-Data/Biodata/VSubramanian.html, sp. computational chemistry; non-covalent interactions; biomolecular simulations.
- 1991 **Subramanyam,** Somenahalli Venkatesarao, b. 1943, Ph.D. (IISc), Res. No. 1, 8th Main, Sharada Colony, Basaveshwara Nagar, Bengaluru 560 079, Tel. (080) 6535 5051, Mobile: 98866 43207, email: svs@physics.iisc.ernet.in; svs1943@hotmail.com, sp. condensed matter physics; low temperature physics; high pressure physics; carbon films; conducting polymers.
- 1963 **Sudarshan,** Ennackal Chandy George, b. 1931, Ph.D. (Rochester), D.Sc. (h.c.), FNA, Department of Physics, University of Texas, Austin, Texas 78712, USA, Tel. Off. (+1-512) 471 5229, Res. (+1-512) 834 1722, Fax (+1-512) 834 8441, email: sudarshan@ physics.utexas.edu, sp. group representations; quantum optics; elementary particle physics; quantum field theory & quantum mechanics; quantum computing & statistical mechanics.
- Sukh Dev, b. 1923, Ph.D. (Panjab), D.Sc. (IISc), FNA, FTWAS, Res. 120, ISCON Mega City, Bhavnagar 364 001, Tel. (0278) 649 9072, email: sdlala1924@gmail.com, sp. organic chemistry; synthesis; natural products; drug discovery.
- 1986 **Sukhatme,** Suhas Pandurang, b. 1938, Sc.D., FNA, FNASc, FNAE, Professor Emeritus, IIT Bombay; Res. 2-A/8-C, Anjaneya Co-op. Housing Society, Orchard Avenue, Opp. Hiranandani Foundation School, Powai, Mumbai 400 076, Tel. (022) 2570 1052, email: spsiitb@yahoo.co.uk; sukhatme@iitb.ac.in, sp. heat transfer; solar energy. **Council Service**: 1998–2000.
- 2000 Sukumar, Raman, b. 1955, Ph.D. (IISc), FNA, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0382; (080) 2293 3102, Res. (080) 4091 4760, Mobile: 94482 75600, Fax (080) 2360 2280, email: rsuku@ces.iisc.ernet.in, URL: http://ces.iisc.ernet.in/rsukumar, sp. wildlife ecology; forest ecology; climate change.

- Sundar, Chakram Sampathkumaran, b. 1952, Ph.D. (Madras), FNASc, FNA, JC Bose National Fellow, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603 102, Tel. Off. (044) 2748 0069, Res. (044) 2748 1192, Mobile: 97905 22807, Fax (044) 2748 0081, email: css@igcar.gov.in, sp. condensed matter physics & materials science; experimental techniques of positron annihilation spectroscopy; infrared spectroscopy.
- Sundar, Shyam, b. 1953, MD (Banaras), FNASc, FAMS, FNA, FRCP, Professor of Medicine, Institute of Medical Sciences, Banaras Hindu University, Varanasi; Res. 6, S K Gupta Nagar, Lanka, Varanasi 221 005, Tel. Off. (0542) 236 9632, Res. (0542) 236 7795, Mobile: 94530 48500, Fax (0542) 236 7568, email: drshyamsundar@hotmail.com; doctorshyamsundar@gmail.com, sp. infectious diseases; visceral leishmaniasis; HIV-AIDS.
- 2013 **Sundar Rajan,** Balaji, b. 1958, Ph.D. (IIT, Kanpur), FNA, FNASc, FNAE, Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2855, Res. (080) 2360 2085, Mobile: 98459 88753, Fax (080) 2360 0563, email: bsrajan@ece.iisc.ernet.in, URL: http://www.ece.iisc.ernet.in/~bsrajan/index.html, sp. wireless communication; coding theory.
- 1965 **Sundaram,** Subramania, b. 1930, M.Sc. (Tech.), FRSC (London), Res. 3B, Raghava Apartments, 41C (New No. 66), Beach Road, Kalakshetra Colony, Chennai 600 090, Tel. (044) 2490 1565, Mobile: 94440 51565, email: sundaram.chennai@gmail.com, sp. textile technology; chemical plant & synthetic fibre technology.
- 1992 Sundararajan, Govindan, b. 1953, Ph.D. (Ohio State), FNA, FNASc, FNAE, Director, International Advanced Research Centre for Powder Metallurgy & New Materials, Balapur Post, Hyderabad 500 005, Tel. Off. (040) 2444 3167; (040) 2445 2304, Res. (040) 2717 6029, Mobile: 94901 17167, Fax (040) 2444 3168, email: gsundar@arci.res.in; director@arci.res.in; Department Metallurgical & Materials Engineering, Indian Institute of Technology, Chennai 600 036, Tel. Off. (044) 2257 4759, Fax (044) 2257 4752, email: gsundararajan@iitm.ac.in, sp. surface engineering; development of novel coating technologies; high temperature deformation & fracture; high strain rate deformation; ballistic penetration. Council Service: 2013-; Vice-President: 2013-.

- Sunder, Ramasubbu, b. 1953, Ph.D. (Kiev), General Manager, BISS, 41A, 1st A Cross, Krishnappa Layout, AECS, RMV Extension, Second Stage, Bengaluru 560 094, Tel. Off. (080) 2836 0184, Res. (080) 2341 4133, Fax (080) 2836 0047 email: rs@biss.in; sunder@testresources.com, sp. fatigue & fracture testing for strength & endurance; durability & performance of materials.
- 1992 **Sunder,** Viakalathur Shankar, b. 1952, Ph.D. (Indiana), FNASc, FNA, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600 113, Tel. Off. (044) 2254 3210; (044) 2254 3100, Res. (044) 2451 6082, Mobile: 94449 50534, Fax (044) 2254 1586, email: sunder@imsc.res.in, URL: www.imsc.res.in/~sunder/, sp. von Neumann algebras & subfactors. **Council Service**: 2004–06.
- 2008 **Suresh,** Venapally, b. 1966, Ph.D. (TIFR), FNA, FNASc, Department of Mathematics & Statistics, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4003, Res. (040) 2412 0110, Mobile: 93910 13585, email: vssm@uohyd.ernet.in, sp. algebra; quadratic forms & division algebras; arithmetic geometry.
- Surolia, Avadhesha, b. 1947, Ph.D. (Vellore), FNA, FNASc, FTWAS, CSIR Bhatnagar Fellow & Honorary Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 2763; (080) 2293 2714, Res. (080) 2336 0149, Fax (080) 2360 0535, email: surolia@mbu.iisc.ernet.in, sp. protein chemistry; protein folding; function & design for therapeutics; immunity & neuroscience.
- Surolia, Namita, b. 1953, Ph.D. (Allahabad), FNASc, Molecular Biology & Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2820; (080) 2208 2821, Res. (080) 2360 0149, Fax (080) 2208 2766, email: surolia@jncasr.ac.in, sp. molecular parasitology; biochemistry; molecular biology.
- Susheela, Andezhath Kumaran, b. 1937, Ph.D. (Baroda), FAMS, Executive Director, Fluorosis Research & Rural Development Foundation, B-1 Saransh, 34, Indraprastha Extension, Delhi 110 092, Tel. Off. (011) 2273 1886, Res. (011) 2272 6725, Mobile: 98105 35228, Fax (011) 2272 5156, email: frnrdf@gmail.com, sp. fluorosis disease management & research.

- 1981 **Sushil Kumar,** b. 1940, Ph.D. (IARI), FNA, FNASc, FNAAS, INSA Honorary Scientist, National Institute for Plant Genome Research, New Delhi; Res. 4/11 Sarvpriya Vihar, New Delhi 110 016, Tel. Res. (011) 2686 5494, Mobile: 98107 23891, email: sushil2000\_01@ yahoo.co.in, sp. genetical genomics; food crops; medicinal & aromatic plants.
- Swaminathan, Monkombu Sambasivan, b. 1925, Ph.D. (Cambridge), D.Sc. (h.c.), FRS, FNA, FTWAS, Emeritus Chairman & Chief Mentor, MS Swaminathan Research Foundation, III Cross Street, Taramani Institutional Area, Chennai 600 113, Tel. Off. (044) 2254 2790; (044) 2254 1229/1698, Res. (044) 2434 5312, Fax (044) 2254 1319, email: swami@mssrf.res.in, sp. genetics; cytogenetics; plant breeding. Council Service: 1968–73, Vice-970 President: 1971–73.
- 1969 **Swaminathan,** Sambasiva, b. 1923, Ph.D. (Illinois), FNA, Res. No. 6, 12th Cross Street, Shastrinagar, Chennai 600 020, Tel. (044) 2491 1858, email: swaminathan1923@yahoo.co.in, sp. organic chemistry.
- 2013 **Swaminathan,** Soumya, b. 1959, MD (AIIMS), FNASc, FAMS, Director, National Institute for Research in Tuberculosis, 1, Sathiyamoorthy Road, Chetput, Chennai 600 031, Tel. Off. (044) 2836 9600, Res. (044) 4230 0268, Mobile: 94440 57478, Fax (044) 2836 2528, email: soumyas@trcchennai.in; doctorsoumya@yahoo.com, sp. paediatrics; tuberculosis; HIV co-infection; TB pathogenesis.
- 2007 **Swamy,** Musti Joginadha, b. 1959, Ph.D. (IISc), FNASc, School of Chemistry, University of Hyderabad, Hyderabad 500 046, Tel. Off. (040) 2313 4807, Res. (040) 2301 2548, Mobile: 98660 07530, Fax (040) 2301 2460, email: mjssc@uohyd.ernet.in; mjswamy1@ gmail.com, sp. protein chemistry & protein-ligand interaction; lipid phase behaviour & polymorphism; lipid-protein interaction.
- Swarup, Ghanshyam, b. 1953, Ph.D. (Bombay), FNA, Scientist, CSIR Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2616, Res. 95026 41429, Mobile: 99891 33201, Fax (040) 2716 0591, email: gshyam@ccmb.res.in, sp. molecular & cell biology; molecular basis of disease; cell signalling; membrane vesicle trafficking.

- Swarup, Govind, b. 1929, Ph.D. (Stanford), FRS, FNA, FNASc, FTWAS, National Centre for Radio Astrophysics, Pune; Res. 10 Cozy Retreat, Road No. 3, Sindh Society, Aundh, Pune 411 007, Tel. Off. (020) 2571 9277, Res. (020) 2585 1630, Mobile: 89757 82096, Fax (020) 2569 2149, email: gswarup29@gmail.com, sp. radio astronomy.
- Tahseen, Qudsia, b. 1964, Ph.D. (Aligarh), Department of Zoology, Aligarh Muslim University, Aligarh 202 002, Tel. Off. (0571) 270 0921–23/3440, Res. 74174 81607, Mobile: 93196 24196, email: tqudsia@hotmail.com; qtahseen@gmail.com, sp. nematology; classical & molecular taxonomy; developmental biology; ecology & functional diversity of soil & freshwater nematodes.
- Talwar, Gursaran Parshad, b. 1926, Docteur es Sciences, D.Sc (h.c.), FAMS, FNASc, FNA, Director Research, The Talwar Research Foundation, E-6-8, Neb Valley, Neb Sarai, New Delhi 110 068, Tel. Off. (011) 6502 2405; (011) 6502 2408, Res. (011) 6528 4873, Mobile: 88003 22055, email: gptalwar@gmail.com, sp. endocrinology; reproductive health & immunology.
- Tandon, Nikhil, b. 1963, Ph.D. (Cambridge), FNASc, FAMS, FRCP (London), Department of Endocrinology & Metabolism, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2659 3433; (011) 2659 3237, Res. (011) 2649 9100, Mobile: 98182 11663, Fax (011) 2658 8663, email: nikhil\_tandon@hotmail.com, sp. endocrinology; chronic disease epidemiology.
- Tandon, Prakash Narain, b. 1928, MS, D.Sc. (h.c.), FRCS, FNA, FNASc, FAMS, FTWAS, Res. No. 1, Jagriti Enclave, Vikas Marg Extension, Delhi 110 092, Tel. Off. (0124) 233 8929, Res. (011) 2216 3272, Fax (0124) 233 8928, email: tandon@nbrc.ac.in, sp. neurosciences; neurosurgery.
- Tandon, Sampat Kumar, b. 1945, Ph.D. (Delhi), FNA, FNASc, FTWAS, D.N. Wadia Chair Professor, Indian Institute of Technology, Kanpur; Res. A566C, Sushant Lok, Phase I, Gurgaon 122 002, Tel. (0124) 422 7715, Mobile: 98104 37365; 76074 49803, Fax (0512) 259 6952, email: sktand@itk.ac.in; sktand@rediffmail.com, sp. sedimentology; physical stratigraphy; geomorphology & quaternary geology; river science.

- Tandon, Shyam Narayan, b. 1944, Ph.D. (Bombay), Emeritus Professor, Inter-University Centre for Astronomy & Astrophysics, Ganeshkhind, Pune 411 007, Tel. Off. (020) 2560 4100; (020) 2560 4110, Res. (020) 2588 7051, Fax (020) 2560 4699, email: sntandon@iucaa.ernet.in, sp. cosmic rays; infra-red astronomy; ultraviolet astronomy; instrumentation for astronomy & space astronomy.
- 1985 **Taqui Khan,** Mirza Mohammad, b. 1931, Ph.D. (Clark), FNA, FNASc, Res. 17-3-479, Yakutpura, Hyderabad 500 023, Tel. (040) 2452 4371, email: taquikhan@yahoo.com, sp. co-ordination chemistry; bioinorganic chemistry; catalysis.
- 2012 Tatu, Utpal Shashikant, b. 1964, Ph.D. (IISc), Department of Biochemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2823, Res. (080) 2360 2559, Mobile: 99455 67901, Fax (080) 2360 0814, email: tatu@biochem.iisc. ernet.in, sp. cell biology; biochemistry; molecular chaperones; infectious diseases.
- 1991 **Thakur,** Vikram Chandra, b. 1940, Ph.D. (London), Res. 9/12 (Lane 9), Ashirwad Enclave, Dehra Dun 248 001, Tel. Off. (0135) 252 5216, Res. (0135) 276 1271, Fax (0135) 262 5212, email: thakurvc12@gmail.com; thakurvc@wihg.res.in, sp. structural geology; Himalayan geology & tectonics; active tectonics.
- Thangaraj, Kumarasamy, b. 1963, Ph.D. (Madras), Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500 007, Tel. Off. (040) 2719 2828, Res. (040) 2717 3822, Mobile: 99082 13822, Fax (040) 2716 0591, email: thangs@ccmb.res.in, URL: http://www.ccmb.res.in/index.php?view=scientist&mid=0&id=63&grpid=55, sp. population genetics & evolutionary biology; clinical & medical genetics; ancient DNA & forensic genetics.
- Thangavelu, Sundaram, b. 1957, Ph.D. (Princeton), FNA, Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3206, Res. (080) 2360 1132, Mobile: 82773 97409, Fax (080) 2360 0146, email: veluma@math.iisc.ernet.in; amulev@gmail.com, sp. harmonic analysis on Lie groups; partial differential equations; classical analysis.
- 1987 **Thathachar,** Mandayam Anandampillai Lakshmi, b. 1939, Ph.D. (IISc), FNA, FNAE, FIEEE, Res. 23, 10th Cross Road, Swimming Pool Extension, Malleswaram, Bengaluru 560 003, Tel. (080) 2336 7263, email: maltcharind@yahoo.com, sp. systems science; learning algorithms; pattern recognition.

- Thelma, Bittianda Kuttapa, b. 1955, Ph.D. (Delhi), FNA, FNASc, Department of Genetics, University of Delhi South Campus, Benito Juarez Road, New Delhi 110 021, Tel. Off. (011) 2411 8201; (011) 2411 7399, Res. (011) 2411 3548, Fax (011) 2411 2761, email: thelmabk@yahoo.co.in; thelmabk@gmail.com, sp. human genetics; pharmacogenetics; medical genomics.
- Thiagarajan, Pazhamaneri Subramaniam, b. 1948, Ph.D. (Rice), FNASc, Department of Computer Science, National University of Singapore, 13 Computing Drive, Singapore 117417, Tel. Off. (+65) 6516 7998, email: thiagu@comp.nus.edu.sg, URL: www.comp.nus.edu.sg/~thiagu, sp. computational systems biology; hybrid systems; distributed probabilistic systems.
- Tole, Shubha, b. 1967, Ph.D. (Caltech), FNASc, Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2878, Res. (022) 2280 4710, Fax (022) 2280 4610, email: shubhatole@gmail.com, sp. neuroscience; developmental biology.
- 2006 **Trivedi,** Sandip Parimal, b. 1963, Ph.D. (Caltech), FNA, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2424, Res. (022) 2280 4710, Fax (022) 2280 4610, email: sandip@tifr.res.in; trivedi.sp@gmail.com, sp. string theory; particle physics; quantum field theory.
- Tuli, Rakesh, b. 1953, Ph.D. (Gujarat), FNA, FNASc, FNAAS, Senior Research Advisor, University Institute of Engineering & Technology, Panjab University, Sector 25, Chandigarh 160 014, Tel. Off. (0172) 253 4996; (0172) 254 1242, Res. (0172) 260 2374, Mobile: 99150 35511, Fax (0172) 254 7986, email: rakeshtuli@ hotmail.com, sp. plant biotechnology; genetic engineering; molecular biology; secondary metabolism; food & nutrition biotechnology.
- Tuteja, Narendra, b. 1955, Ph.D. & D.Sc. (Lucknow), FNA, FNASc, FNAAS, FTWAS, Group Leader & Senior Scientist, International Centre for Genetics Engineering & Biotechnology, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2674 2357, Res. (011) 2689 0983, Mobile: 98112 33350, Fax (011) 2674 2316, email: narendra@icgeb.res.in, URL: http://www.icgeb.org/pi-tuteja. html, sp. molecular biology; DNA replication; plant abiotic stress tolerance; signal transduction; calcium-powered forisomes; stress tolerant genes from *Piriformospora indica*; tissue culture & plant transformation.

- Tyagi, Akhilesh Kumar, b. 1956, Ph.D. (Delhi), FNA, FNASc, FTWAS, FNAAS, Director, National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110 067, Tel. Off. (011) 2673 5169, Res. (011) 2674 2263, email: akhilesh@genomeindia.org, sp. genomics; regulation biology; biotechnology.
- Tyagi, Anil Kumar, b. 1951, Ph.D. (Delhi), FNA, FNASc, Department of Biochemistry, University of Delhi South Campus, New Delhi; Vice Chancellor, Guru Gobind Singh Indraprastha University, Sector-16C, Dwarka, New Delhi 110 078, Tel. Off. (011) 2411 5209; (011) 2530 2104, Res. (011) 2659 4544, Mobile: 93122 66218, Fax (011) 2411 5270; (011) 2803 5243, email: aniltyagi@south.du.ac.in; akt1003@rediffmail.com, sp. molecular biology; biochemistry; microbiology.
- 2013 Tyagi, Avesh Kumar, b. 1964, Ph.D. (Mumbai), FNASc, Department of Chemistry, Homi Bhabha National Institute, Mumbai; Head, Solid State Chemistry Section, Chemistry Division, Bhabha Atomic Research Centre, Mumbai 400 085, Tel. Off. (022) 2559 5330, Res. (022) 2550 3020, Mobile: 98694 43020, Fax (022) 2550 5151, email: aktyagi@barc.gov.in, sp. chemistry of functional materials; nanomaterials; nuclear materials.
- Tyagi, Jaya Sivaswami, b. 1954, Ph.D. (Delhi), FNASc, FNA, Honorary Visiting Professor, Centre for Biodesign & Diagnostics, Translational Health Science & Technology Institute, Gurgaon; Department of Biotechnology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110 029, Tel. Off. (011) 2658 8491, Res. (011) 2658 8182, Mobile: 98104 09761, Fax (011) 2658 8663, email: jstyagi@aiims.ac.in; jstyagi@gmail.com, sp. molecular biology; gene regulation & mycobacteriology.
- 1997 Udgaonkar, Jayant Bhalchandra, b. 1960, Ph.D. (Cornell), FNA, FTWAS, Senior Professor, National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560 065, Tel. Off. (080) 2366 6150, Res. (080) 2363 6673, Fax (080) 2363 6662, email: jayant@ncbs.res.in, sp. physical biochemistry; protein folding.
- Uma Shaanker, Ramanan, b. 1956, Ph.D. (UAS, Bengaluru), Department of Crop Physiology, School of Ecology and Conservation, University of Agricultural Sciences, GKVK Campus, Bengaluru 560 065, Tel. Off. (080) 2363 6350; (080) 2363 6713, Res. (080) 2856 5620, Mobile: 98452 03561, Fax (080) 2353 0070, email: rus@vsnl.com; umashaanker@gmail.com, sp. plant evolutionary biology; conservation genetics; bioprospecting.

- Umapathy, Siva, b. 1959, Ph.D. (Otago, New Zealand), Departments of Inorganic & Physical Chemistry and Instrumentation & Applied Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 1234; (080) 2293 2595, Mobile: 94480 88381, Fax (080) 2360 1552, email: umapathy@ipc.iisc.ernet.in, sp. ultrafast dynamics; instrumentation development; laser spectroscopy; photochemistry; biophotonics; microspectroscopy.
- 2000 Vairamani, Mariappanadar, b. 1950, Ph.D. (IIT, Madras), Dean, School of Bio-Engineering, SRM University, Kattankulathur 603 203, Tel. Off. (044) 2741 7812, Mobile: 97909 46095, email: mvairamani@hotmail.com; dean.biotech@ktr.srmuniv.ac.in, sp. mass spectrometry; organic chemistry.
- Valdiya, Khadg Singh, b. 1937, Ph.D. (Lucknow), FNA, FNASc, FTWAS, Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru; Res. 302, Sterling Apartments, 10 Papanna Street, Off St. Marks Road, Bengaluru 560 001, Tel. Off. (080) 2208 2787, Res. (080) 4112 0784, Mobile: 98970 78756, Fax (080) 2208 2766, email: valdiya@jncasr.ac.in, sp. sedimentary geology; tectonics; environmental geology. Council Service: 1983–88.
- Valiathan, Marthanda Varma Sankaran, b. 1934, Ch.M. (Liverpool), FRCS (England, Edinburgh & Canada), FRCP (London), D.Sc. (h.c.), FNA, FNASc, FNAE, FAMS, FTWAS, National Research Professor, Manipal University, Madhav Nagar, Manipal 576 104, Tel. Off. (0820) 292 2342; (0820) 257 1201/22342, Res. (0820) 257 0491, Mobile: 94483 81547, Fax (0820) 257 1919; (0820) 257 0062, email: ms.valiathan@manipal.edu; msvaliathan@gmail.com, sp. cardiac surgery; cardiovascular materials; ayurveda. Council Service: 1980–91; Vice-President: 1986–91.
- 1971 **Valluri,** Sitaram Rao, b. 1924, Ph.D. (Caltech, Pasadena), Res. Prashanthi, 659, 100 Feet Road, Indiranagar, Bengaluru 560 038, Tel. (080) 2525 8294, sp. metal fatigue.
- Vankar, Yashwant Dattatraya, b. 1950, Ph.D. (Banaras), FNA, JC Bose National Fellow, Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7169; (0512) 259 7436, Res. (0512) 259 8493, Mobile: 99350 62562, Fax (0512) 259 7492, email: vankar@iitk.ac.in; ydvankar@gmail.com, URL: http://home.iitk.ac.in/~vankar/, sp. synthetic organic chemistry; synthetic carbohydrate chemistry of biological relevance.

- Vanninathan, Muthusamy, b. 1951, Ph.D. (Pierre et Marie Curie, Paris), TIFR-Centre for Applicable Mathematics, Sharada Nagar, Yelahanka New Town, Bengaluru 560 065, Tel. Off. (080) 6695 3790; (080) 6695 3745, Res. (080) 2360 3230, Fax (080) 6695 3799, email: vanni@math.tifrbng.res.in, sp. partial differential equations; numerical analysis; asymptotic analysis; homogenization; control of PDE.
- 2001 Varadarajan, Raghavan, b. 1960, Ph.D. (Stanford), FNA, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2612, Res. (080) 2360 2332, Fax (080) 2360 0535, email: varadar@mbu.iisc.ernet.in, URL: http://mbu.iisc.ernet.in/~rvgrp, sp. protein structure & folding. Council Service: 2013–; Secretary: 2013–.
- Varadarajan, Srinivasan, b. 1928, Ph.D. (Delhi & Cantab), D.Sc. (h.c.), D.Litt. (h.c.), FNA, FNAE, FTWAS, Res. 4-A, Girdhar Apartments, 28, Feroz Shah Road, New Delhi 110 001, Tel. Off. (011) 2322 1932–50; (011) 2323 0828, Res. (011) 2371 2512; (011) 2371 3137, email: esoffice@insa.nic.in; varadar@gmail.com, sp. organic & biological chemistry; molecular biology; engineering design technology development transfer; human nutrition policy; energy management systems. Council Service: 1974–88; Vice-President: 1977–79, President: 1980–82.
- 1970 Varma, Ravi Martanda, b. 1922, M.B.B.S. (Madras), D.Sc. (h.c.), FRCS, Res. A803, Vyshnavi Splendour, 6th Cross, 80 Feet Road, RMV Extension, Sanjaynagar, Bengaluru 560 094, Mobile: 98807 11738, email: ravigopal.varma@gmail.com, sp. neurosurgery. Council Service: 1971–76; Vice-President: 1974–76.
- Varshney, Umesh, b. 1957, Ph.D. (Calgary), FNA, FNASc, Chairman, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 0169; (080) 2293 2686, Res. (080) 2341 7828, Fax (080) 2360 2697, email: varshney@mcbl.iisc.ernet.in, sp. molecular biology; protein biosynthesis; DNA repair.
- 1999 **Vasudevan,** Sukumaran, b. 1953, Ph.D. (IIT, Kanpur), FNA, Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2661, Res. (080) 2202 3570, Mobile: 94480 54448, Fax (080) 2360 1552, email: svipc@ipc.iisc.ernet.in, sp. physical chemistry of materials; intercalation chemistry; heterogeneous catalysis.

- Veluthambi, Karuppannan, b. 1953, Ph.D. (IISc), FNA, FNASc, UGC-BSR Faculty Fellow, Department of Plant Biotechnology, Madurai Kamaraj University, Madurai 625 021, Tel. Off. (0452) 245 8683, Res. (0452) 245 8458, Mobile: 94439 27365, Fax (0452) 245 9105, email: kveluthambi@rediffmail.com, sp. plant genetic engineering; plant biotechnology; plant molecular biology.
- 1974 Venkataraman, Ganesan, b. 1932, Ph.D. (Bombay), FNA, FNASc, Res. R1, A2 Mandir, Prasanthi Nilayam 515 134, Tel. (08555) 28 6142, email: gvraman108@gmail.com, sp. condensed matter physics; parallel computers. Council Service: 1983–85.
- Venkataramana, Tyakal Nanjundiah, b. 1958, Ph.D. (Bombay), FNA, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, Tel. Off. (022) 2278 2224, Res. (022) 2280 4831, Fax (022) 2280 4610–1, email: venky@math.tifr.res.in, sp. rigidity & arithmeticity of lattices; cohomology of arithmetic groups; Shimura varieties; monodromy groups.
- 1981 **Venkatesan**, Kailasam, b. 1932, Ph.D. (Madras), FNA, Res. D-1, Himagiri Apartments, 77, Fourth Main Road, Malleswaram, Bengaluru 560 055, Tel. (080) 2334 8736, email: kvenoc15@yahoo.com, sp. chemical crystallography.
- 1990 **Venkatesh,** Yedatore Venkatakrishnaiya, b. 1942, Ph.D. (IISc), FNA, FNAE, Res. C/o Sri A.V. Subbanna, No. 11, AGs Office Layout, RMV II Stage, New BEL Road, Bengaluru 560 054, email: yv.venkatesh@gmail.com, sp. machine & computer vision; neural networks for pattern recognition; signal processing; compressive sampling; multi- & hyper-spectral data analysis; system theory.
- Venkateswara Rao, Gundabathula, b. 1944, Ph.D. (IISc), FNAE, Res. No. 502, Reliance Mariam Villa, Street No. 6, Plot No. 70, West Maredpally, Secunderabad 500 026, Mobile: 95020 36831; 93913 68231, email: hydrao1944@yahoo.co.in, sp. finite element method; structural analysis (linear & nonlinear); smart structures; functionally graded materials.
- Verma, Kaushal Kumar, b. 1971, Ph.D. (Indiana), Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3216, Res. (080) 2351 8802, Mobile: 74830 64269, email: kverma@math.iisc.ernet.in, sp. complex analysis.

- Verma, Sandeep, b. 1966, Ph.D. (Illinois), FNASc, FRSC, JC Bose National Fellow, Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 7643, Res. (0512) 259 8786, Mobile: 99350 81810, Fax (0512) 259 7436, email: sverma@iitk.ac.in, sp. bioorganic chemistry; chemical biology; responsive soft structures.
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#### A LIST OF SOME ABBREVIATIONS USED

AEC, Atomic Energy Commission

AIIMS, All India Institute of Medical Sciences

ANU, Australian National University

BHU, Banaras Hindu University

CSIR, Council of Scientific and Industrial Research

DAE, Department of Atomic Energy

FAMS, Fellow of the National Academy of Medical Sciences

FIEEE, Fellow of the Institute of Electrical and Electronics Engineers

FNA, Fellow of the Indian National Science Academy

FNAAS, Fellow of the National Academy of Agricultural Sciences

FNAE, Fellow of the Indian National Academy of Engineering

FNASc, Fellow of the National Academy of Sciences

FRS, Fellow of the Royal Society

FRSC, Fellow of the Royal Society of Chemistry

FTWAS, Fellow of the Third World Academy of Sciences

IISc, Indian Institute of Science

IIT, Indian Institute of Technology

INSA, Indian National Science Academy

ISI, Indian Statistical Institute

ISRO, Indian Space Research Organization

JNCASR, Jawaharlal Nehru Centre for Advanced Scientific Research

JNU, Jawaharlal Nehru University

MIT, Massachusetts Institute of Technology

MKU, Madurai Kamaraj University

NASI, National Academy of Sciences, India

PRL, Physical Research Laboratory

TIFR, Tata Institute of Fundamental Research

UAS, University of Agricultural Sciences

UGC, University Grants Commission

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- 1997 **Roesky,** Herbert Walter, b. 1935, Director a.D., Institut fuer Anorganische Chemie der Universitaet Goettingen, Tammannstrasse 4, D-37077 Goettingen, Germany, Tel. Off. (+49-551) 39 3001, Res. (+49-551) 76183, Fax (+49-551) 39 3373, email: hroesky@gwdg.de, URL: www.roesky.chemie.uni-goettingen.de.

- 1994 **Roshko,** Anatol, b. 1923, Theodore von Karman Professor of Aeronautics (Emeritus), Graduate Aeronautical Laboratories, California Institute of Technology, Pasadena, CA 91125, USA, Tel. Off. (+1-626) 395 4484, Res. (+1-626) 797 7185, email: roshko@caltech.edu.
- 2014 **Schmidt,** Brian Paul, b. 1967, Nobel Laureate (Physics), FRS, Distinguished Professor, The Research School of Astronomy & Astrophysics, Mount Stromlo Observatory, The Australian National University, via Cotter Road, Weston Creek, ACT 2611, Australia, Tel. Off. (+61-2) 6125 8042, Fax (+61-2) 6125 0260, email: brian@mso.anu.edu.au, URL: http://www.mso.anu.edu.au/~brian/.
- 2003 **Sreenivasan,** Katepalli R, b. 1947, President & Dean, Polytechnic Institute of New York University, 1225 Bobst Library, 70 Washington Square South, New York, NY 10021, USA, Tel. Off. (+1-212) 992 7914, Fax (+1-212) 995 4300, email: krs3@nyu.edu.
- 2005 **Suresh,** Subra, b. 1956, President, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, USA, Tel. Off. (+1-412) 268 2200, email: president@cmu.edu.
- 2000 **Sutherland,** Bill, b. 1942, Department of Physics, University of Utah, 115 S 1400 E Rm 201, Salt Lake City, Utah 8412–0830, USA, Tel. Res. (+1-206) 463 4417, Fax (+1-801) 581 4801, email: suther@physics.utah.edu; vsuther@comcast.net.
- Thomas, Sir John Meurig, b. 1932, FRS, F.R. Eng. (Hon.), FRSE (Hon.), Honorary Professor, Department of Materials Science & Metallurgy, University of Cambridge, Pembroke Street, Cambridge CB2 3QZ, UK, Tel. Off. (+44-1223) 33 4300, Fax (+44-1223) 52 1276; email: jmt2@cam.ac.uk.
- van den Heuvel, Edward Peter Jacobus, b. 1940, Professor of Astrophysics, Astronomical Institute Anton Pannekoek, Faculty of Science, University of Amsterdam, P.O. Box 94249, NL-1090GE Amsterdam, The Netherlands, Tel. Off. (+31-20) 525 7491, Res. (+31-35) 542 9568, Fax (+31-20) 525 7484, email: E.P.J.vandenHeuvel@uva.nl; edvdh@science.uva.nl.
- Varadhan, Sathamangalam Ranga Iyengar Srinivasa, b. 1940, Professor, Department of Mathematics, Courant Institute, New York University, 251, Mercer Street, New York, NY 10012, USA, Tel. Off. (+1-212) 998 3334, Res. (+1-212) 982 9883, Fax (+1-212) 995 4121, email: varadhan@cims.nyu.edu, URL: http://www.math.nyu.edu/faculty/varadhan/.

- Zare, Richard Neil, b. 1939, Marguerite Blake Wilbur Professor in Natural Science, Department of Chemistry, Stanford University, Stanford, CA 94305-5080, USA, Tel. Off. (+1-650) 723 3062, Fax (+1-650) 725 0259, email: zare@stanford.edu.
- Zewail, Ahmed Hassan, b. 1946, Nobel Laureate (Chemistry), Linus Pauling Professor of Chemistry & Professor of Physics, and Director, Physical Biology Center, Arthur Amos Noyes Laboratory of Chemical Physics, California Institute of Technology, 1200 East California Boulevard, Pasadena, CA 91125, USA, Tel. Off. (+1-626) 395 6536, Fax (+1-626) 792 8456, email: zewail@caltech.edu.

# FELLOWS AND HONORARY FELLOW ELECTED IN 2014 (effective January 2015)

# **FELLOWS**

1.	Agrewala, Javed N.	17.	Goswami, Debashish
2.	Anil, A. C.	18.	Kant, Rama
3.	Athreya, Siva R.	19.	Khare, Avinash
4.	Banerjee, Arindam	20.	Kundu, Anjan
5.	Bapat, Sharmila A.	21.	Majumder, Gobinda
6.	Bhandari, Nita	22.	Ojha, D. K.
7.	Bhattacharya, Alok	23.	Pathak, Tanmaya
8.	Bhattacharyya, Gautam	24.	Podile, A. R.
9.	Chakrabarti, Soumen	25.	Prasad, B. L. V.
10.	Chakraborty, Tapas	26.	Prasad, K. R.
11.	Chockalingam, A.	27.	Ravikanth, M.
12.	Chowdhury, Shantanu	28.	Ravishankar, N.
13.	Dasgupta, Pallab	29.	Sarma, V. V. S. S.
14.	Dash, Debabrata	30.	Thangaraj, K.
15.	Dube, Anuradha	31.	Verma, Kaushal
16.	Ghosh, Arindam		

## **HONORARY FELLOW**

1. Geim, Andre K.

## SUBJECT-WISE LIST OF FELLOWS

## **ANIMAL SCIENCES**

	Total Fellows: 53
Name	Specialisation
Ali, Nahid	Immunology, Parasitology
Ali, Sher	Molecular Genetics of Humans & Animals, Gene Expression & Genome Organisation and Genomics of Endangered Species
Ananthakrishnan, T N	Entomology, Cecidology and Chemical Ecology
Bhatnagar, Rakesh	Vaccine Development, Genetic Engineering, Molecular Biology
Bhattacharya, Samir	Molecular Basis of Disease, Reproductive Biology, Comparative Endocrinology and Molecular Signalling
Borges, Renee M	Evolutionary Biology & Behavioural Ecology, Plant-Animal Interactions, Chemical Ecology, Sensory Biology, Multi-Model Signalling, Olfactions & Visual Ecology
Chandola-Saklani, Asha	Ornithology, Conservation Biology and Endocrinology
Chattopadhyay, Joydev	Mathematical Modelling on Ecology & Epidemiology and Eco-epidemiology
Dighe, Rajan R	Molecular Endocrinology, Reproductive Biology, Biochemistry
Dube, Anuradha	Parasite (Leishmania), Immunobiology, Drug Discovery, Model Development
Dutta Gupta, Aparna	Insect Physiology & Biochemistry, Invertebrate Endocrinology & Physiology, Comparative Physiology & Endocrinology
Gadagkar, R	Animal Behaviour, Ecology and Evolution
Gadgil, Madhav	Ecology, Ecological History, Environmental Management and Traditional Knowledge Systems
Gore, Anil P	Analysis of Clinical Trials, Non-parametric Inference and Statistical Ecology
Hasan, Gaiti	Transcriptomics, Spino-Cerebellar Ataxia, Neurodegeneration, Molecular Genetics, Drosophila, Calcium Signalling in Neurons, Inositol Triphosphate Receptor
Jairajpuri, M S	Plant Protection, Nematology, Biological Control, Parasitology and Biological Diversity
Joshi, Amitabh	Population & Quantitative Genetics, Evolutionary Genetics and Population Ecology
Joshi, N V	Statistical Analysis, Mathematical Modelling in Biology
Karanth, Ullas K	Carnivore Ecology, Animal Population Analysis and Conservation Biology & Conservation Policy
Lakhotia, S C	Cytogenetics, Gene Expression, Stress Biology and Molecular Biology
Madhubala, Rentala	Molecular Parasitology
Majumdar, Subeer S	Animal Biotechnology, Transgenic Animals, Endocrinology
Majumder, H K	Biochemistry, Molecular Biology and Parasitology
Majumder, Partha P	Biostatistics, Human Genetics and Population Genetics
Malhotra, K C	Population Genetics and Human Ecology
Mallick, B N	Sleep-Wakefulness-REM Sleep, Neuro-cognitive Biology

Marimuthu, G Animal Behaviour and Chronobiology Mishra, R K Genomics, Chromatin, Epigenetics Mohanty-Hejmadi, P Developmental Biology and Herpetology

Muralidhar, K Biochemistry, Endocrinology and Reproductive Biology Muthukkaruppan, V Immunology, Angiogenesis in Ocular Diseases and Ocular

Stem Cells

Nanjundiah, V Developmental Biology, Theoretical Biology and Evolution

Narain, Prem Statistical Genetics and Genomics

Niazi, I A Developmental Biology of Animals and Regeneration

Pandian, T J Genetics and Energetics: Aquaculture

Cell Biology, Molecular Biology, Lamins and Nuclear Parnaik, Veena K

Organisation

Qasim, S Z Oceanography

Human Molecular Genetics & Cytogenetics, Gene Expression Raman, R

& Chromatin Organization in Development and Sex

Determination

Ranganath, H A Zoology, Genetics and Evolution

Roychoudhury, Susanta Cancer Biology, Genomics, Human Genetics

Saidapur, S K Biology of Reproduction, Comparative Endocrinology,

Herpetology and Animal Behaviour

Shanbhag, Comparative Endocrinology & Reproduction (Vertebrates),

Bhagyashri A Herpetology and Animal Behaviour Sharma, Vijay K Chronobiology, Evolution, Animal Behaviour Shashidhara, L S Developmental Biology, Evolution and Genetics

Shivaji, S Bacterial Biodiversity of Cold Habitats, Reproductive Biology,

Conservation Biology and Mammalian Sperm Function Animal Behaviour, Wild Life Ecology and Sociobiology

Singh, Mewa Theoretical Biology, Complex Systems in Biology and Sinha, Somdatta Nonlinear Dynamics, and Computational Biology Subba Rao, B R

Biological Control, Entomology and Taxonomy of

Chalcidoidea

Sukumar R Wild Life Ecology, Forest Ecology and Climate Change

Susheela, A K Fluorosis Disease Management & Research Nematology, Classical & Molecular Taxonomy, Tahseen, Qudsia

Developmental Biology & Ecology & Functional Diversity of

Soil and Freshwater Nematodes

Thelma, B K Human Genetics, Pharmacogenetics and Medical Genomics Watve, Milind G Wildlife Ecology & Animal Cognition, Evolutionary Biology, Computational Biology and Microbial Diversity

## **CHEMISTRY**

Total Fellows: 183

Name Specialisation

Ahluwalia, J C Thermodynamics of Biopolymers & Surfactants in Solutions

and Solute-Solvent Interactions

Organic Functional Materials, Molecular Self-Assembly, Ajayaghosh, A

Molecular Organogels and Pi-Conjugated Systems

Anand, Nitya Medicinal Chemistry Anil Kumar Nuclear Magnetic Resonance Spectroscopy, NMR

Techniques & its Applications to Biomolecules and Quantum

Anil Kumar Chemical Thermodynamics, Physical Organic Chemistry and

Biophysical Chemistry

Arunan, E Molecular & van der Waals Spectroscopy, Chemical Kinetics

& Dynamics, Shock Wave Interactions with Molecules & Materials, Hydrogen Bonding and other Molecular

Interactions

Bagchi, Biman Glass Transition, Biophysical Chemistry, Statistical

Mechanics of Liquids, Molecular Relaxation and Chemical Reaction Dynamics in Liquids & Biological Systems

Balasubramanian, K K Molecular Rearrangements, Carbohydrate Chemistry,

Organic Electrophotochemistry, Synthetic Organic Chemistry

and Heterocyclic Chemistry

Balasubramanian, S. Molecular Simulations, Liquid State, Computational Chemistry Banerjee, Arindam Molecular Assembly, Soft Materials & Hybrid Nanomaterials,

Bio-organic Chemistry

Basak, Amit DNA Interacting Agents, Asymmetric Synthesis and

Enzymology, Biradical Chemistry

Basavaiah, D Baylis-Hillman Chemistry and Chiral Catalysis Baskaran, S Synthetic Organic Chemistry, Natural Products,

Enantioselective Synthesis

Bera, J K Organometallic Chemistry, Small Molecule Activation,

Catalysis

Bhaduri, Sumit Organometallic Chemistry and Catalysis

Bhakuni, DS Natural Products, Bio-organic, Biosynthesis, Nucleosides and

Medicinal Chemistry

Bharadwaj, PK Supramolecular Chemistry, X-ray Crystallography Bhatt, M V Organometallic and Synthetic Organic Chemistry Bhattacharya, Co-ordination Chemistry and Organometallic Chemistry

Samaresh

Chemical Biology, Molecular Theranostics, Soft Materials, Bhattacharva, Santanu

Supramolecular Analytical Chemistry, Nanoscience &

Nanotechnology

Femtosecond Laser Spectroscopy, Single Molecule Bhattacharyya, K

Spectroscopy

Bhattacharvva, S.P. Quantum Chemistry

Synthetic Organic Chemistry, Green Chemistry, Medicinal Chakraborti, Asit K

Chakraborty, Tapas Vivrational & Electronic Spectroscopy, Cold Molecules &

Clusters, Mass Spectroscopy

Chakraborty, Tushar K Peptides & Peptidomimetics, Organic Synthesis

Chakravarty, A R Bioinorganic Chemistry, Co-ordination Chemistry and Metal-

based Anti-Cancer Agents

Chakravarty, Charusita Chemical Physics, Theoretical & Computational Chemistry

Chandrakumar N

Chakravorty, A Structural Chemistry

Statistical Mechanics of Liquids & Interfaces, Classical & Chandra, Amalendu

Quantum Simulations and Molecular Modelling Magnetic Resonance Imaging, MR Spectroscopy &

Instrumentation and Spin Physics

Synthetic Organic Chemistry, Natural Products and Chandrasekaran, S

Organometallic Chemistry

Computational Chemistry, Theoretical Organic Chemistry Chandrasekhar, J Natural Product Synthesis, Green Chemistry, Combinatorial Chandrasekhar, Srivari

Chandrasekhar, V Organometallic Chemistry, Inorganic Rings & Polymers and

Many-Group Chemistry

Chandrashekar, T K Bio-inorganic Chemistry, Synthetic Inorganic Chemistry and

Catalysis

Chattaraj, PK

Hydrogen Storage, Density Functional Theory, Nonlinear Dynamics and Chemical Reactivity, Aromaticity in Metal

Chattopadhyay, Nitin Biophysical Chemistry, Surface Chemistry, Photophysics &

Photochemistry, Time-resolved Spectroscopy, Fluorosensing,

Photoacoustic Spectroscopy

Organized Surfactant Assemblies, Bio-organic Chemistry and Chaudhuri, Arabinda

Liposomal Gene/Drug Delivery Systems

Synthesis/Structure & Reactivity, Newer Reagents and Chaudhuri, M K

Methodologies and Green Chemical Technology

Choudary, B M Homogeneous & Heterogeneous Catalysis, Organic Synthesis via Organometallics, Nanotechnology and

Chowdhury, Mihir Molecular Spectroscopy, Chemical Reaction dynamics Das, Amitava Supramolecular Chemistry & Assembly, Molecular

Recognition, Interfacial Electron Transfer

Das, Puspendu K Laser Spectroscopy & Dynamics and Nonlinear Optics Co-ordination Chemistry, Metal-Oxide based Cluster Das, Samar K

Chemistry, Inorganic Supramolecular Chemistry

Photochemistry, Photoresponsive Materials, Liquid Crystals, Das, Suresh

Photosensitizing Dyes, Photoluminiscent Materials and

Photo-induced Electron Transfer

Dash, A C Physical Inorganic Chemistry

Deb, B M Theoretical Chemistry and Chemical Physics Desiraju, G R Structural Chemistry, Crystal Engineering, X-ray

Crystallography

Dhavale, Dilip D Natural Products Chemistry, Carbohydrate Chemistry,

Photochemistry, Reaction Mechanism, Medicinal Chemistry

Durga Prasad, M Theoretical Chemistry

Gadre, SR Quantum Chemistry and Computer Applications Ganguli, Ashok K Solid State & Materials Chemistry, Nanomaterials,

Superconducting Materials

George, M V Organic Photochemistry and Laser Chemistry

Photochemistry & Photophysics, Nanostructured Materials George Thomas, K

and Photoresponsive Materials

Gharda, K H Process Design of Organic Chemical Plants

Radiation & Photochemistry, Quantum Dot & Nanomaterials, Ghosh, H N

Ultrafast Spectroscopy in Condense Phase

Processes Research, Water Purification, Renewable Energy, Ghosh, PK

R&D Management

Ghosh, Subrata Cycloaddition Reactions and Total Synthesis of Natural

Products

Ghosh, Swapan K Theoretical Chemistry, Computational Materials Science and

Soft Condensed Matter Physics

Gopalakrishnan, J Solid State Chemistry, Synthesis & Structure and Chemistry

of Oxide Materials

Gopidas, K R Photochemistry, Photo-induced Electron Transfer,

Supramolecular Chemistry

Gopinath, CS Surface Science, Heterogeneous Catalysis, Spectroscopy Gopinathan, MS Quantum Chemistry and Nonlinear Dynamics in Chemistry &

Biology

Chemical Reactions with Metal -Ligand Co-operation, Goswami, Sreebrata

Functional Materials

Govil, G Molecular Biophysics

Gurjar, M K Carbohydrate Chemistry and Synthetic Organic Chemistry Guru Row, T N Chemical Crystallography, Charge Density Analysis,

Functional Materials form Hydrated Minerals, Polymorphism &

Drug Design

Harjit Singh Organic Synthesis and Heterocycles

Hegde, MS X-ray Photoelectron Spectroscopy, Solid State Chemistry,

Nanomaterials, Automative Exhaust Catalysis

Hosur, R V Structural Biology, NMR Spectroscopy and Protein Folding Ila, H

Synthetic Organic Chemistry, Heterocyclic Chemistry,

Medicinal Chemistry

Medicinal Chemistry, Drug Design & Discovery, Iqbal, Javed

Organometallic Chemistry and Catalysis

Jagirdar, B R Organometallic Chemistry, Materials Chemistry, Catalysis Jain, DVS Theoretical Chemistry

Jayaraman, N Carbohydrate Chemistry, Dendrimer Chemistry, Synthetic

Organic Chemistry

Jemmis, E D Theoretical & Computational Chemistry

Joshi, B S Chemistry of Natural Products, Ethnobotany, Ayurvedic

Medicines

Junjappa, H Synthetic & Mechanistic Organic Chemistry Kant, Rama Complex Systems in Electrochemistry & Polymers,

Theoretical Chemistry, Nanoelectrochemistry

Kartha, V B Atomic, Molecular & Laser Spectroscopy, Synchrotron

Spectroscopy and Applications of Lasers in Medicine &

Biochemistry

Kasturi, T R Synthetic, Structural & Mechanistic Organic Chemistry and

Spectroscopy

Kessar, S V Synthetic & Mechanistic Organic Chemistry

Khan, F A Synthetic Organic Chemistry, Natural Products, Synthetic

Methodologies

New Synthetic Methods, Unnatural Amino Acids, Transition Kotha, Sambasiva R

Metals in Organic Synthesis

Krishnamurthy, S S Main Group Chemistry and Organometallic Chemistry

Krishnan, V Bio-inorganic Chemistry

Kulkarni, Giridhar U Nanomaterials, Nanolithography & Fabrications, Molecular

Crystals & Properties

Kumara Swamy, K C Chemistry of Main Group Elements and Organophosphorus

Lahiri, Goutam K Organometallic Chemistry and Catalysis

Madyastha, K M Bio-organic Chemistry, Xenobiotics Metabolism, Plant

Biochemistry and Microbial Transformations

Mahapatra, Susanta Theoretical Chemical Dynamics

Manoharan, PT

Maitra, Uday Supramolecular Chemistry of Bile Acids, Organo &

Hydrogels, Soft Composite Materials

Mandal, A B

Biophysical Chemistry, Organised Self-Assemblies and
Nanomaterials

Nanomaterials
Physical Inorganic & Bioinorganic Chemistry, Spectroscopy

and Nanoscience

Mathews, C K High Temperature Chemistry, Solid State Ionics & Sensors,

High Temperature Chemistry, Solid State Ionics & Sensors, Materials Characterization and Instrumentation

Mathur, Pradeep Organometallics and Cluster Chemistry

Mehta, G Synthetic Organic Chemistry and Natural Products Chemistry
Mishra, Manoj K Electronic Structure Theory, Photo/Collisional Dynamics
Mitra, S Biological Chemistry and Inorganic Biochemistry
Mittal, J P Radiation Chemistry & Radiation Biology, Photochemistry &
Photophilogy Lagre Chemistry and Chemistry

Photobiology, Laser Chemistry and Chemical Dynamics

Moorthy, J Narasimha Organic Photochemistry, Supramolecular Chemistry, Organic

Synthesis

Mugesh, G Bioinorganic Chemistry, Chemical Biology, Medicinal

Chemistry

Mukherjee, D Theoretical Chemistry and Theoretical Spectroscopy

Mukherjee, R N Bioinorganic Chemistry

Murugavel, R Inorganic & Organometallic Chemistry

Nag, K Inorganic Chemistry

Nagarajan, K Natural Product, Medicinal, Pesticide & Synthetic

Heterocyclic Chemistry, Applications of NMR to Structure &

Reactivity

Nair, G Vijay Synthetic Organic Chemistry, Heterocyclic Chemistry and

Medicinal Chemistry

Nandi, Arun K Polymer Crystallisation & Gelation, Polymer Blends &

Hybrids, Polymer Nanocomposites, Supramolecular Polymers

Nangia, Aswini Crystal Engineering, Supramolecular Chemistry and

Polymorphism

Narasimhan, N S Synthetic Organic Chemistry, Chemistry of Natural Products

and Organolithium Compounds

Natarajan, P Inorganic Photochemistry, Laser Flash Photolysis and

Chemical Conversion of Solar Energy

Natarajan, S Inorganic Materials Chemistry and Solid State Chemistry
Pal. Sourav Electronic Structure Theory, ab initio Quantum Chemistry.

Chemical Reactivity and ab initio Molecular Dynamics

Palaniandavar, M Bioinorganic Chemistry, Activation of Molecular Oxygen,

Functional Models for Metalloproteins, Interaction of Metal Complexes with DNA & Proteins, Metal-based Anti-Cancer

Drugs

Palit, Dipak K Ultrafast Spectroscopy, Photo & Radiation Chemistry and

Chemical Reaction Dynamics in Condensed Phase

Pandey, G P Organic Synthesis

Pathak, Tanmaya Synthetic Organic Chemistry, Nucleoside & Carbohydrate

Modification, Enzyme Inhibition

Pati, Swapan K Optical Lattice, Catalysis, Electrochemical Cells, Quantum

Magnetism, Generalised Charge Transfer and Quantum

Methods Development

Periasamy, M Organometallics & Chiral Reagents and Renewable

Resources Development

Periasamy, N Fluorescence Spectroscopy & Applications, Materials

Chemistry

Pillai, V N R Bio-Organic Chemistry, Synthetic Organic Chemistry &

Macromolecular Science

Pradeep, T Water Purification, Molecular & Nanoscale Materials,

Nanoscience & Nanotechnology, Molecular Surfaces, Ion

Scattering and Instrumentation

Prasad, B L V Materials Chemistry, Nanoparticle Synthesis, Self-Assembly
Prasad, K R Organic Synthesis, Total Synthesis of Natural Products

Radhakrishnan, T P Materials Chemistry
Rajagopalan, S R Electrochemistry

Rajappa, S Synthetic Organic Chemistry

Rama Rao, A V Medicinal Chemistry, Drug Technology

Ramaiah, D Bio-organic Chemistry, Photobiology, Biophysical Chemistry,

Organic Photochemistry

Ramakrishnan, S Polymerizable Surfactants, Polymer Synthesis, Polymer

Folding & Assembly and Hyperbranched Polymers

Ramamurthy, V Chemistry in Confined Spaces, Photochemistry,

Supramolecular Chemistry and Organic Solid State Chemistry

Ramana, C V Total Synthesis, Carbohydrate Chemistry, Transition Metal

Catalysis

Ramaraj, R Photoelectrocatalysis & Nanomaterials, Chemically Modified

Electrodes, Solar Energy Conversion, Catalysis and Sensors

Ramasami, T Physical Inorganic Chemistry, Bio-Inorganic Chemistry and

Leather Science & Technology

Ramasesha, S Many-Body Quantum Chemistry, Organic Solids, Molecular Electronics, Molecular Magnetism and Nonlinear Optics

Nonlinear Science, Systems Biology & Bioinformatics, and

Chemical Dynamics
Bio-Organic Chemistry

Ranganathan,

Ramaswamy, R

Subramania

Ranu, B C

Visible Light Photocatalysed Reactions, Green Chemistry,

Indium-mediated Supported Metal and Metal Nanoparticle-

catalysed Reactions, and Organic Synthesis

Rao, C Pulla Bioinorganic Chemistry, Supramolecular Chemistry, Ion &

Molecular Receptors, Metalloproteins & Metalloenzymes

Rao, C N R Solid State Chemistry, Surface Science, Spectroscopy and

Molecular Structure

Rao, K J Amorphous Solids & Ceramics and Phase Transitions
 Rastogi, R P Nonequilibrium Thermodynamics and Nonlinear Science
 Ravikanth, M Supramolecular Chemistry, Co-ordination Chemistry,

Photochemistry

Ray, D S Nonlinear Dynamics and Nonequilibrium Statistical

Mechanics

Organometallic Chemistry, Catalysis for Fine Chemicals, Dual Roy, Sujit

& Biometallic Catalysis, Carbon-Hydrogen Functionalisation

Photochemistry, Time-resolved Spectroscopy and Ionic Samanta, Anunay

Liquids I

Sampath, S Interfacial Electrochemistry, Nanostructured Materials, Fuel

Cells & Supercapacitors, SERS and Electrochemical Sensors

Physical & Inorganic Chemistry, Photochemistry, Science & Santappa, M

Technology of Leather and Polymer Chemistry & Industrial

Pollution Control

Sarkar, S Graphene & Carbon Quantum Dots, Drug Delivery, Bio-

geoinorganic Chemistry, Structure-functional analogues of metallo-proteins, Carbon Quantum Dots, Bio-imaging

Sarma, D D Strongly Interacting Electron Systems, Disordered Systems,

Nanomaterials and Conducting Polymers

Sastry, G Narahari Computational Chemistry, Theoretical Chemistry, Computer-

aided Drug Design

Sastry, Murali Surface Physics, Hybrid Materials and Nano Materials Molecular Reaction Dynamics & Theoretical Chemistry, Sathyamurthy, N Atomic & Molecular Clusters and Atoms & Molecules in

Confined Environment

Sebastian, K L Theoretical Chemistry and Chemistry of Interfaces

Sen, K D Density Functional Theory, Confined Systems, Information

Theory, Statistical Complexity

Sharma, Ram Prakash Natural Products Chemistry and New Synthetic Methods

Materials Electrochemistry, Fuel Cells, Batteries and

Supercapacitors

Singh, Anil K Bio-organic Chemistry, Photochemistry and Photobiology Singh, Harkesh B

Main Group Chemistry, Organochalcogen Chemistry and

Organometallic Chemistry Synthetic Organic Chemistry

Singh, Vinod K

Sinha, APB Solid State Materials

Shukla, A K

Subba Rao, B C Applied Organic Chemistry and Industrial Chemistry Subba Rao, G S R Synthetic & Mechanistic Organic Chemistry and Natural

Product Chemistry

Subba Rao, G V Materials Science and Solid State Chemistry

Subramanian, S NMR, EPR, Theoretical Chemistry and Magnetic Resonance

Subramanian, V Computational Chemistry, Non-Covalent Interactions,

Biomolecular Simulations

Sukh Dev Synthesis, Natural Products, Drug Discovery

Textile Technology, Chemical Plant and Synthetic Fibre Sundaram, S

Technology

Synthetic Organic Chemistry Swaminathan, S

Co-ordination Chemistry, Bioinorganic Chemistry and Taqui Khan, M M

Catalysis

Chemistry of Functional Materials, Nanomaterials, Nuclear Tvagi, Avesh K

Umapathy, Siva Instrumentation Development, Microspectroscopy, Laser

Spectroscopy, Photochemistry and Ultrafast Dynamics

Vairamani, M Mass Spectrometry Vankar, Y D Synthetic Organic Chemistry, Synthetic Carbohydrate

Chemistry

Organic & Biological Chemistry, Molecular Biology, Engineering Design Technology Development Transfer, Varadarajan, S

Human Nutrition Policy, Energy Management Systems

Materials Chemistry, Intercalation Chemistry and Vasudevan, S

Heterogeneous Catalysis

Venkatesan, K Chemical Crystallography

Chander, Ramesh

Bioorganic Chemistry, Chemical Biology Responsive Sfot Verma, Sandeep

Structures

Vijayamohanan, K Electrochemical Power Sources, Functional Materials,

Electrochemistry, Nanotechnology and Materials Chemistry

Yadav, J S Biologically Active Natural Products, Agrochemicals &

Pheromones, Development of New Methodologies for

Sustainable Chemistry

Yadav, Veejendra K Synthetic Organic Chemistry and Physical Organic Chemistry

Nanomorphology, Ionic Conduction in Solutions, Computational Chemistry & Intermolecular Forces and Yashonath, S

Diffusion within Porous & Dense Media

# **EARTH AND PLANETARY SCIENCES**

Total Fellows: 86

	l otal Fellows: 86
Name	Specialisation
Ahmad, Talat	Igneous Petrology, Geochemistry, Himalayan Geology
Anil, A C	Biological Oceanography, Marine Ecology, Marine Biology
Anil Kumar	Isotope Geochemistry and Paleomagnetism
Arora, B R	Electromagnetic Geophysics, Seismotectonics and Geomagnetism
Aswathanarayana, U	Nuclear Geology, Natural Resources Management and Environmental Geochemistry
Bajpai, Sunil	Vertebrate Paleontology, Biostratigraphy and Paleobiogeography
Beig, Gufran-Ullah	Atmospheric Sciences, Global Change & Atmospheric Environment, Urban Air Pollution & Chemical-Climate Change, 2-D & 3-D Atmospheric Chemical Transport Modelling
Bhandari, N	Planetary Sciences, Nuclear Geophysics and Exploration of Moon & Mars
Bhardwaj, Anil	Planetary Missions & Exploration, Solar System Sciences, Planetary and Space Sciences, Multi Wavelength, Atmospheres and Ionospheres, Lunar-Solar Wind Interactions.
Bhat, G S	Ocean-Atmosphere Coupling, Tropical Convection, Boundary Layer and Field Studies
Bhattacharya, S K	Isotope Geochemistry and Anomalous Isotope Fractionation
Bhattacharyya, Archana	Ionospheric Physics, Geomagnetism and Space Weather
Bhonsle, R V	Solar Terrestrial Physics and Radio Astronomy

Seismology and Geophysics

Dasgupta, Somnath Metamorphic Petrology, Geochemistry and Precambrian

Control of Sea Water Composition, Biogeochemical Cycles & Dileep Kumar, M

Global Change and Chemical Oceanography

Gadgil, Sulochana Meteorology, Oceanography and Evolutionary Biology Gaur, V K

Seismotectonics, Geophysical Inversion and Earth System Sciences

Geo-& Cosmo-Chronology, Isotope Geology and Mass Gopalan, K

Spectrometry

Tropical Meteorology, Monsoon Dynamics, Predictability of Goswami, B N

Weather & Climate and Air-Sea Interactions

Goswami, J N Solar System Studies, Pre-Solar (Stellar) Processes and

Geochronology

Gupta, Alok K Experimental Petrology, Mineralogy and Geochemistry Gupta, Anil Kumar Paleomonsoon, Paleoclimatology and Paleoceanography Guptasarma, D Radiophysics & Electronics and Exploration Geophysics Haider, S A Planetary Atmospheres, Ionosphere & Magnetosphere of

Jayananda, M Solid Earth Geochemistry, Archean Magmatism, Continental

Growth, Tectonics

Jayaraman, Achuthan Atmospheric Science, Aerosols and Radiative Transfer Kamra, A K Atmospheric Electricity, Cloud Physics and Aerosol Physics Krishna, K.S. Marine Geology & Geophysics

Krishna Kumar, K Monsoon Dynamics, Predictability & Prediction, Climate Change & Impacts and Climate Applications

Krishnamoorthy, K Microphysics, Regional Radiative Forcing, Equatorial

Aeronomy, Atmospheric Aerosols, Radiation Budget &

Climate Science and Climatology

Krishnaswami, S Nuclear Oceanography and Low Temperature Geochemistry Lal, Shyam Ozone & Trace Gases for Atmospheric Processes and

Environmental & Climatic Changes

Mandal, Nibir Structural Geology, Solid Earth Geophysics and Tectonics Merh, SS Structural Geology, Himalayan Geology and Quaternary

Mishra, S K Dynamic Meteorology and Numerical Modelling of the

Atmosphere

Mohan, Anand Metamorphic Petrology, Mineralogy, Thermodynamics and

Precambrian Geology

Mohanty, U C Numerical Weather Prediction, Monsoon Dynamics, Climate

Modelling and Tropical Meteorology and Mesoscale

Modelling System

Mujumdar, Pradeep P Hydrology, Climate Change Impacts, Uncertainty

Quantification

Murty, S V S

Structural Geology, Precambrian Geology and Metamorphic Mukhopadhyay, D

Early Solar System & Pre-Solar Processes, Cosmochemistry

of Nitrogen & Noble Gases, Mass Spectrometry and Planetary Exploration

Chemical Oceanography, Palaeo-Oceanography, Global Naqvi, S W A

Change and Aquatic Biogeochemistry

Navalgund, R R Remote Sensing, Space Applications, Magnetic Resonance

Nayak, Shailesh Coastal & Ocean Processes, Oceanography

Pandey, P C Satellite Oceanography, Atmospheric Sciences, Climate

Change and Polar Research

Patra, Amit Kumar Ionospheric Electrodynamics & Plasma Instabilities, Space

Weather, Radar Probing Techniques

Prasad, G V R Vertebrate Palaeontology, Mesozoic Mammals and

Cretaceous Palaeobiogeography

Purnachandra Rao, V Marine Geology, Authigenic Minerals and Palaeoclimate,

Palaeo-sea-levels

Radhakrishna, T Geochemistry & Igneous Petrology, Palaeomagnetism and

Geodynamics

Rai, S S Seismology, Electromagnetic Exploration

Rajamani, V Geochemistry, Rock Weathering, Soil/Sediment Genesis and

Farmland Geology

Rajeevan, M Climate Variability, Monsoon Prediction, Climate Change

Rama Isotope Hydrology

Ramakrishnan, M Precambrian Geology, Geochemistry, Petrology and

Geochronology

Ramesh, R Palaeoclimatology & Climate Modelling, Mass Spectrometry,

and Oceanography

Rao, M N Solar System Physics, Mars Fundamental Research, Earth &

Planetary Sciences and Lunar & Meteorite Sample Studies

Rao, N V Chalapathi Mineralogy, Igneous Petrology, Mantle Geochemistry,

Geodynamics, Mineral Resources

Rao, P B Space Physics, Radiowave Propagation and Radar Systems
Rastogi, R G Ionospheric Physics, Geomagnetism and Space Weather

Disturbance

Roy, A B Precambrian Geology and Geology of Indian Shield

Sahni, Ashok Vertebrate Palaeontology, Palaeobiogeography and Electron

Microscope Applications to Biomineralization

Sarin, M M Atmospheric & Aerosol Chemistry and Chemical

Oceanography

Sarkar, Anindya Stable Isotope Geochemistry, Palaeoclimatology Sarma, V V S S Biogeochemistry, Stable Isotopes, Remote Sensing

Satheesh, S K Aerosols, Radiation, Climate

Sengupta, Pulak Precambrian Geology, Metamorphic Petrology

Shankar, D Tropical Ocean Dynamics, Ocean-Atmospheric Interactions Sharma, R S Metamorphic Petrology, Mineralogy and Precambrian

Geology

Shenoi, S S Chandra Physical Oceanography, Ocean-Atmosphere Interaction and

Satellite Oceanography

Shetye, S R Physical Oceanography

Sikka, D R Monsoon, Tropical & Satellite Meteorology, Climate Change,

Dynamics of Himalayan Glaciers and Climate Research

Singh, R N Geophysics and Geophysical & Environmental Modelling Singh, Sarva Jit Theoretical Seismology and Applied Mathematics

Singhvi, A K

Quaternary Geochronology, Earth Surface Processes and

Past Climates Tectonics and Radiation Effects in Minerals

Somayajulu, B L K Nuclear Oceanography, Geochemistry and Cosmic Ray

Produced Radioisotopes

Sridharan, Rajagopal Solar Terrestrial Physics, Space Physics, Optical Aeronomy

and Planetary Atmospheres

Srinivasan, M S Micropaleontology, Paleoceanography and Marine Geology

Srinivasan, Precambrian Geology, Archaean Palaeobiology and

Ramaswamiah Geochemistry

Thakur, V C

Bhatia, S K

Srivastava, D C Structural Geology and Fluid Inclusions

Srivastava, R K Igneous Petrology, Geochemistry, Precambrian Geology
Subbarao, K V Volcanology, Igneous Petrology and Palaeomagnetism
Tandon, S K Geomorphology, Sedimentology, Physical Stratigraphy and Quaternary Geology

Structural Geology, Tectonics of Himalayan Geology and

Active Tectonics

Valdiya, K S Sedimentary Geology, Tectonics and Environmental Geology

Vinayachandran, P N Physical Oceanography, Ocean Modelling, Physical-Biological Interactions in Ocean

Yadav, Ram Ratan Palaeoclimatology, Tree Ring Analysis, Climate Change,

Biodiversity

Development

## **ENGINEERING & TECHNOLOGY**

Total Fellows: 147

	Total Fellows: 147
Name	Specialisation
Agrawal, Manindra	Computational Complexity Theory and Computation Number Theory
Amarjit Singh	Millimeter Wave Tubes, Microwave Tubes and Microwave Electronics
Anand, G V	Statistical Signal Processing, Ocean Acoustics and Nonlinear Dynamics
Arakeri, J H	Fluid Mechanics, Heat Transfer, Turbulence
Arakeri, V H	Cavitation, Hydrodynamics and Two-phase Flows
Arunachalam, V S	Materials Science & Engineering, Energy Technologies, Defence Technologies and Science, Technology & Public Policy
Balakrishnan, N	Numerical Electromagnetics, Information Security, Polarimetric Radars and Aerospace Electronic Systems
Baldev Raj	Non-destructive Science & Technology, Materials Performance, Technology Management and Nano Science & Technology
Banerjee, D	Metallurgy, Titanium Alloys and Electron Microscopy
Banerjee, Soumitro	Bifurcation Theory and Switching Dynamical Systems
Banerjee, Srikumar	Materials Science, Physical Metallurgy, Phase Transformations, Nuclear Fuel Cycle, Nuclear Materials and Reactor Engineering
Bhanu Sankara Rao, K	Mechanical Metallurgy, Physical Metallurgy and Materials

Transport & Reaction in Nanostructured Porous Media,

Adsorption and Mathematical Modelling

Biswas, Gautam Enhancement of Heat Transfer, Computational Fluid

Dynamics, Bubble Growth in Film Boiling, Free Surface

Flows, Turbomachinery and Turbulence

Borkar, V S Stochastic Control Theory and Applied Probability

Bose, D N Semiconductor Materials & Devices, VLSI Technology,

Ferroics, Terahertz devices

Chakrabarti, P P Artificial Intelligence, Computer Aided Design for VLSI and

Algorithms

Chakrabarti, Soumen Web Search & Mining, Graph Information Retrieval

Chakravorty, D Materials Science and Nanomaterials

Chandru, Vijay Data Science, Computational Mathematics and

Computational Biology

Chattopadhyay, K Physical Metallurgy and Materials Science & Engineering Chaudhari, R V Homogeneous and Heterogeneous Catalysis, biomass

Conversion; Multiphase Reactors, Chemical Reaction

Engineering and Kinetics & Mechanism

Chaudhuri, Subhasis Computer Vision and Image Processing

Chhabra, Rajendra P Transport Phenomena, Rheology, Non-Newtonian Fluids Chockalingam, A Wireless Communications, Wireless Networking

Chokshi, Atul H High Temperature Deformation & Failure, Ceramics and

Nanomaterials

Choudhary, V R Heterogeneous Catalysis, Zeolites: Adsorption/Catalysis and

Natural Gas Conversion/Utilization, Green

Chemistry/processes

Dasgupta, Pallab Electronic Design Automation, Artificial Intelligence, Formal

Methods

Dastidar, P R Electronics, Controls and Nuclear Power
Deb, Kalyanmoy Optimization & Design, Genetic Algorithms and

Multiobjective Optimization

Deekshatulu, B L Machine Learning, Control Systems, Digital Image

Processing, Pattern Recognition and Remote Sensing

Deshpande, S M Computational Fluid dynamics, Meshfree Methods and Data

Assimilation

Dey, Gautam K Phase Transformations in Metals & Alloys, Electron

Microscopy and Metallic Glasses & Nanocrystalline

Materials

Dey, Subhasish Fluid Mechanics, Hydraulics, Turbulence, Sediment

Transport

Dutta, Pradip Heat Transfer, Energy Studies

Dutta Roy, S C Signal Processing, Network Theory and Electronic Circuits Gandhi, K S Batteries and Fuel Cells, Multiphase Fluid Systems and

Polymer Reaction Engineering

Ganguly, C Fuel Cycle, Advanced Ceramics, Powder Metallurgy and

Uranium, Thorium & Plutonium Fuels

Garg, Naveen Approximation Algorithms, Combinatorial Optimisation,

Graph Theory & Algorithms

Ghosh, Amitabha Manufacturing Science, Machine Dynamics & Mechanisms,

Classical Mechanics and Robotics

Ghosh, Subir K Computational Geometry & Applications, Robot Motion

Planning and Geometric Graph Theory

Goel, PS Satellite Control Systems, Space Technology and Earth

Wave Propagation, Structural Health Monitoring, Gopalakrishnan, S

Computational Mechanics

Govindarajan, Rama Fluid Mechanics

Gupta, Santosh K Polymer Engineering & Science, Bio-mimetic Adaptations

of Multi-objective Evolutionary Algorithm and Experimental

Online Optimal Control

Haritsa, Jayant R Database Systems Irani, J J Iron & Steel Making

lyengar, R N Structural Dynamics, Earthquake Engineering, Applied

Stochastics and History of Science

Thermodynamics of Materials, Phase Equilibria, Materials Jacob, KT

Extraction & Synthesis, Solid State Sensors and Fuel Cells

Jayakrishnan, A Polymer Chemistry, Biomaterials and Controlled Drug

Delivery

Jayaram, Vikram Ceramics, Thin Films, Electron Microscopy and Mechanical

Properties

Jena, PK Extractive Metallurgy, Mineral Processing, Environmental

Engineering and Materials Processing

Jhunjhunwala, Ashok Telecommunications, Computer Networks and Fibre Optics Electro-optics, Space Instrumentation and Remote Sensing Joseph, George Chemical Engineering, Fluid Mechanics, Reactor Design Joshi, J B

Absorption of NOx Gases and Solar Energy

Kakodkar, Anil Structural Mechanics and Nuclear Engineering

Kalam, A P J Abdul Composite Material Technology and Rocket Technology Kamal, A K Air Traffic Control, Surveillance, Automation, IFF, Mode S,

and GPS

Kant, Tarun Solid & Structural Mechanics, Finite Element Methods and

Mechanics of Composite Materials & Structures

Kapur, P C Mineral Processing, Particulate Science & Technology,

Mathematical Modelling and Waste Management

Kasturirangan, K High Energy Astronomy and Satellite Technology Khakhar, D V Granular Flow & Mixing, Polymer Processing Krishna, R Separations using Nanoporous Materials

Aerospace Engineering, Structural Mechanics, Composites Krishna Murty, A V

and Smart Structures

Krishnan, R Physical Metallurgy and Materials Science

Krishnan S Electronics and Digital Systems

Ferroelectrics, III-V & III-Nitride Semiconductors, Thin Films, Krupanidhi, S B

Epitaxy, Solid State Devices and MEMS

Kulkarni, B D Chemical Reaction Engineering and Mathematical Modelling

& Simulation

Kulkarni, M G Polymer Science & Engineering, Intellectual Property Kumar, Anurag Wireless Networks, Communication Networks, Stochastic

Modelling, Analysis & Optimisation of Distributed Systems

Kumar, R Multiphase Phenomena

Kumaran, V Hydrodynamic Stability, Dynamics of Complex Fluids and

Granular Flows

Polymer Dynamics, Rheology & Processing, Rheology of Lele, Ashish K

Complex Fluids, Hydrogels and Gelation Processes

Physical Metallurgy and Materials Science Lele S Madras, Giridhar Polymer, Supercritical Fluids, Catalysis

Mallik, A K Vibration Engineering, Kinematics and Dynamics of Machines Mallik, R K Wireless Communications, MIMO & Space-Time Systems,

Co-operative Communications

Manna, Indranil Structure-property correlation of engineering materials,

Nanostructured materials, Surface engineering

Mashelkar, R A Polymer Science & Engineering, Molecular & Convective Diffusion, Non-Newtonian Fluid Mechanics and Rheology

Misra, K B Reliability, Maintainability, Risk & Safety, Performability

Engineering

Mittal, Sanjay Unsteady Aerodynamics, Finite Element Analysis, High

Performance Computing and Bluff-body Flows, Aerodynamic

Shape Optimization

Mukunda, H S Combustion Aerodynamics, Fluid Mechanics, Rocket

Propulsion and Energy from Bioresidues

Munjal, M L Technical Acoustics, Noise & Vibration Control and Mufflers

& Silencers

High Entropy Alloys, Non-equilibrium Processing, Murty, BS

Nanocrystalline Materials, Metallic Glasses and In-situ

Murty, T G K Optical Engineering, Thin Film Technology, Electro-Optical

Instrumentation and Atmospheric Science Technologies

Polymer Science & Engineering, Materials Science and Nadkarni, V M

Chemical Engineering

Nakra, B C Vibration Engineering, System Dynamics & Controls and Instrumentation, Mechatronics

Narahari Y Game Theory & Mechanism Design, Electronic Commerce

Internet and Network Economics

Aerospace Engineering, Fluid Mechanics and Atmospheric Science & Technology Policy Narasimha, R

Narasimhan, R Fracture Mechanics and Computational Solid Mechanics Natarajan, K A Mineral Processing, Hydrometallurgy, Biomineral Technology

and Corrosion Engineering

Padmanabhan, K A Mechanical Metallurgy, Metal Forming, Plasticity &

Superplasticity and Nanotechnology

Pai, MA Smart Grid, Power Systems, Stability, Control and

Pal, S K Computing with Words, Bioinformatics, Pattern Recognition &

Machine Learning, Image Processing, Data Mining Web

Intelligence and Soft Computing

Pandit, AB Design of Multiphase Reactors, Cavitation Phenomena and

Environmental & Energy Engineering

Paranjpe, PA Turbomachinery and Energy/Propulsion Systems

Patnaik, L M Computer Science & Engineering, Information Technology

and Electronics

Patwardhan, V S Computer Simulation, Mathematical Modelling, Multiphase

Reactions and Software Development and Spreadsheet

Programming

Pitke, M V Electronics, Telecommunication & Information

Technology, Technology Transfer and Wireless

Communication

Prasad, Surendra Signal Processing, Communication Theory and Systems,

Speech Processing

Prasad, Y V R K Deformation Processing, Process Modelling, Deterministic

Chaos and Microstructural Control

Prasada Rao, TSR Petroleum Refining and Heterogeneous Catalysis

Structural Mechanics, Finite Element Method, Information Prathap, G

Science and Composite Materials

Raghavarao, KSMS Food Engineering, Biotechnology

Rajaraman, V Computer Science and Information Systems Design

Ramachandran, A Energy, Heat and Mass Transfer

Ramachandran, S Alloy & Stainless Steel Making and Process Metallurgical

Design & Development

Ramamritham, K Databases, Real-Time Systems, Use of Information &

Communication Technology for Socioeconomic Development

Ramamurti, V Vibrations, Stress Analysis

Ramamurty, U Mechanical Behaviour of Materials, Advanced Materials,

Nanotechnology

Ranade, V V Multiphase Flows & Reactors, Computational Flow Modelling,

Process Intensification

Ranganathan, Srinivasa Physical Metallurgy, Materials & Society and Science &

Civilisation

Flow of Granular Materials and Defluoridation of Drinking Rao, K K

Water

Rao, P Rama Deformation, Fracture and Materials Development

Rao, PVS Computer Science & Speech Research, Natural Language

Processing and Cursive Script Recognition

Rao, V Ramagopal Nanoelectronics and Nanotechnology Ratnasamy, P Catalysis, Zeolites and Solid State Chemistry

Ravishankar, N Nanomaterials, Electron Microscopy, Energy Applications

Reddy, V U Signal Processing and Communications Roy, T K Hydrometallurgy, Fluidization and Mixing

Propulsion, Total Energy, Agro-based Energy - Bio-Diesel & Roy Chaudhury, S N

Hydrogen Fuel and Integrated Rural Energy for Rural

Artificial Intelligence, Reliable Computing, Systems Sarma, V V S

Engineering and Indian Logic (Nyaya Darsana)

Algorithms (Sequential & Parallel), Probabilistic Analysis & Sen. Sandeep

Randomization and Computational Geometry Engineering Science and Fluid Dynamics

Shankar, P N Sharma, Anurag Fibre & Integrated Optics, Gradient-Index Optics and

**Applied Optics** 

Sharma, Ashutosh Composites, Soft Nanotechnology & Micro/Nano-fabrication,

Nanomechanics, Thin Films & Self-Organization, Colloid & Interface Science and MEMS/NEMS, Carbon Nanomaterials

Sharma, M M Multiphase Reactions/Reactors, Separations

Shyamasundar, RK Specification & Verification, Real-Time Programs, Logic

Programs, Mobile Computing and Computer Security

Singh, Bhim Power Electronics, Renewable Energy Generation

Singh, D V Dynamics of Mechanical Systems, Stress Analysis, Tribology,

Stability of Vehicles, Tyre Mechanics and Pavement

Engineering

Sivaram, S Polymer Chemistry and Technology, Polymer Surfaces &

Interfaces, Structured Polymers

Sivasanker, S Industrial Catalysis, Petroleum Refining and Petrochemical

Production and Green Chemistry

Sridharan, A Engineering Properties of Clays, Clay Mineralogy and

Foundation Engineering

Srinivasan, J Thermal Science, Climate Science and Solar Energy
Subbarao, E C Materials Science, Renewable Energy, and R&D

Management

Sukhatme, S P Heat Transfer and Solar Energy

Sundar Rajan, B Wireless Communication, Coding Theory

Sundararajan, G Surface Engineering, Development of Normal Coating

Technologies, High Temperature Deformation & Fracture and

High Strain Rate Deformation & Ballistic Penetration

Sunder, R Fatigue & Fracture Testing for Strength & Endurance, and

Field Data Acquisition

Thathachar, M A L Systems Science, Learning Algorithm and Pattern

Recognition

Valluri, S R Metal Fatigue

Venkatesh, Y V Machine & Computer Vision, Neural Networks for Pattern

Recognition, Signal Processing and Compressive Sampling, Multi- & Hyper-Spectral Data Analysis System Theory

Venkateswara Rao, G Finite Element Methods, Structural Analysis (Linear &

Nonlinear) and Smart Structures

Vidyasagar, M Control System Theory, Computational Biology and Statistical

Learning Theory

Viswanadham, N Global Logistics, Service Networks and Supply Chain

Networks

Yajnik, K S Modelling of Large Mechanical Systems, Fluid Mechanics

and Biogeochemical Ocean Modelling & Simulation, Modelling, Marine Biogeochemical Processes, Climate

Change

Yegnanarayana, B Signal Processing, Speech & Vision and Artificial Neural Networks

Networks

### **GENERAL BIOLOGY**

Total Fellows: 134

Name Specialisation

Adhya, Samit Molecular Genetics of Parasites, Intracellular RNA Trafficking

and DNA Diagnostics

Appaji Rao, N Biochemistry, Enzyme Regulation and Inborn Errors of

Metabolism

Apte, S K Molecular Biology & Biotechnology, Physiology & Biochemistry and Stress Biology of Bacteria & Plants

Babu, P Genetics and Biotechnology

Bachhawat, Anand K Microbial Genetics, Molecular Genetics and Microbial

Biochemistry

Molecular Enzymology, Molecular Parasitology and Protein Balaram, Hemalatha

Engineering

Balaram, P Bio-Organic Chemistry and Molecular Biophysics

Biophysical Chemistry & Biochemistry of Eye Diseases and Balasubramanian, D

Public Understanding of Science

Bandyopadhyay, Uday Gastric Pathophysiology, Malaria & Anti-Malarials, Free

Radical Biology & Apoptosis

Molecular Enzymology, Membrane Biochemistry and Cell Banerjee, R K

Biology

Bansal, Manju Computational Structural Biology, Computational Genome

Analysis and Biomolecular Modelling

Basu, Joyoti Molecular Microbiology, Mycobacteria, Host-Pathogen

Interactions and Membrane Biology

Basu, M K Structure Functions of Bio-membranes; Design & Testing of

Targeted Delivery Systems and Host-Parasite Interactions

Basu, S K Biochemistry, Cell Biology, Molecular Biology and Microbial

Batra, J K Molecular Biology, Biochemistry and Protein Chemistry Bhalla, Upinder S Systems Biology, Computational Neuroscience and Systems

Neurobiology

Bhargava, Purnima Biochemistry and Molecular Biology, Eukaryotic

Transcription, Epigenetics & Chromatin

Bhattacharya, Alok Molecular Parasitology, Computational Genomics Bhattacharya, Sudha Molecular Biology, Molecular Parasitology and Genomics Bhattacharyya, B

Biophysical Chemistry, Biochemistry and Molecular

Spectroscopy

Biswas, B B Nucleic Acid Metabolism, Plant Biochemistry and Genetic

Engineering

Brahmachari, S K Functional Genetics and Genome Informatics Chakrabarti, Pinakpani X-ray Crystallography, Structural Biochemistry and

Bioinformatics

Chakraborti, Pradip K Biochemistry and Molecular Microbiology, Prokaryotic Signal

Transduction.

Chandra, H Sharat Genetics and Evolution

Chattarji, Sumantra Neurobiology, Biophysics, Physiology

Chatterji, D Molecular Biology, Biophysical Chemistry and Biomolecular

Spectroscopy

Chattopadhyay, Membrane Biology, Molecular & Cellular Neurobiology and

Amitabha Fluorescence Spectroscopy & Microscopy

Chattopadhyay, Transcription, Molecular Virology and Oxidative Stress

Dhrubajyoti Response

Chattopadhyay, Samit Chromatin Remodelling & Transcription Regulation, Cancer

Biology, Immunomolecular Biology

Chauhan, V S Peptide Synthesis & Structure, Malaria Immunology and

Malaria Drug Development, Biomarker Discovery

Chowdhury, Shantanu Structural & Molecular Biology, Genomics

Das, Pijush K Cell Biology, Immunology

Das, Saumitra Molecular Virology, Molecular Biology and Cell Biology Das Gupta, C K Genetic Recombination and Protein Folding

Nucleic Acid Enzymology, Protein Chemistry, Parasitology and Recombinant DNA Technology Datta, A K

Datta, Asis Biochemistry, Molecular Biology and Genetic Engineering Biochemistry, Molecular & Cell Biology, Human Genome Datta Kasturi

Function and rDNA Technology

Dharmalingam, K Proteomics of Eye Diseases, Molecular Genetics, Genetic

Engineering and Biotechnology

Easwaran, K R K Structural Biology, Membrane Biophysics and Molecular

Biophysics

Galande, Sanjeev Epigenetics, Chromatin Biology, Gene Regulation, Genomics

and Proteomics

Ganesh, K N Bio-Organic Chemistry, Bio-Molecular

Spectroscopy, Chemistry & Biology of Nucleic Acids and

Peptides & Lipids

Ghosh, Balaram Immunology, Genomics, Gene Regulation

Gokhale, Rajesh S Chemical Biology, Mycobacterium Tuberculosis, Small

Molecule Metabolism, Skin Biology

Gopal, B Structural Biology, Molecular Microbiology, Molecular

Molecular Biology, Recombinant DNA & Genetic Gopinathan, K P

Engineering, Molecular Virology, Biotechnology and

Developmental Biology

Gowrishankar, J Microbial & Molecular Genetics

Hasnain, S E

Gupta, C M Membrane Biology, Bio-Organic Chemistry and Molecular Biophysics

Infection Biology, Molecular Pathogenesis and Dissemination

Dynamics of Human Pathogens particularly M.Tuberculosis Jagannathan, V

Biochemistry and Plant Tissue Culture

Jayaraman, R Molecular Biology and Molecular Genetics

Johri, M M Plant Biochemistry, Molecular Biology of Plants and Genetic

Engineering

Kannan, K K X-ray & Macromolecular Crystallography and

Macromolecular Computer Graphics

Kasbekar, DP Neurospora Genetics, Dictyostelium & Plant Antimicrobials

and Sterol Reductases

Kenkare, U W Biochemistry, Molecular Biology and Neurochemistry

Krishnamoorthy, G Biophysical Chemistry, Laser Spectroscopy and

Macromolecular Dynamics

Kundu, G C Tumour Biology, Regulation of Gene Expression,

Angiogenesis and Nanomedicine

Stress Response in Mycobacterium Tuberculosis, Kundu, Manikuntala

Immunology of Host Cell Response to Helicobacter Pylori

Mechanisms of Transcriptional Regulation, Epigenetics and Kundu, Tapas K

Disease, Chemical Biology

Cell Cycle of Protozoan Parasite, Molecular Genetics & Lohia, Anuradha

Genomics and Regulation of Gene Expression

Mahadevan, S Regulation of Gene Expression in Bacteria, Microbial

Physiology and Microbial Evolution

Maiti, Souvik Biophysical Chemistry, Chemical Biology Mandal, N C Molecular Genetics and Molecular Biology of Prokaryotes Mande, Shekhar C Macromolecular Crystallography and Protein Structure &

Function

Mayor, Satyajit Cell Biology, Biophysics and Biochemistry

Mishra G.C. Immunology and Cell Biology

Mistry, K B Soil Science, Fertilizers and Agrochemicals

Mitra, Debashis Molecular Virology, Molecular Immunology, HIV/AIDS & Anti-

Viral Drug Discovery

Mohan Rao, Ch. Molecular Biology, Protein Folding & Chaperones, Gene

Expression, Cell Cycle, Differentiation & Apoptosis,

Nanobiology

Bioinformatics, Computational & Structural Biology, Mohanty, Debasisa

Biophysics

Mukhopadhyay, Cell Biology, Host-Pathogen Interactions, Drug Delivery

Muniyappa, K Molecular Genetics, Genetic Recombination and Telomere

Murthy, MRN Macromolecular Crystallography, Virus Structure &

Assembly, Protein Structure & Function and X-ray Diffraction

Nagaraj, R Peptide Conformation; Membrane Biochemistry, Host-

Defence Peptides, Protein Nanostructures

Nagaraja, V Protein-Nucleic Acid Interactions, Restriction-Modification

Systems, Molecular Biology of Mycobacteria and Regulation

of Gene Expression

Padmanaban, G Molecular Biology, Recombinant DNA and Malarial Parasite

Panda, Dulal Biochemistry, Cell Biology, and Biophysics

Prakash, V Physical Biochemistry, Chemistry of Macromolecules,

Biophysics of Proteins, Enzymes & Thermodynamics, Food Chemistry, Nutrition, Food Biotechnology and Food Science

Prasad, Rajendra Membrane Biology, Yeast Genetics & Molecular Biology and Medical Mycology

Raghava, GPS Bioinformatics, Genome Annotation and Vaccine Design,

Searching Drug Targets

Rajasekharan, Ram Fats & Oils Metabolism and Plant Biotechnology

Ramachandran, J Molecular Biology

Ramakrishnan, C Molecular Biophysics, Protein Structure and Conformation

Rao, A J Regulation of Placental Function, Biochemistry of Placental

Proteins Differentiation of Endocrine Tissues and Primate

Rao, B Jagadeeshwar Genome Dynamics, Biology of Cellular Adaptations,

Computational Biology

Rao, D Narasimha Protein-DNA Interactions using Restriction-Modification

Enzymes and DNA Mismatch Repair Proteins as Model

Rao, KVS Synthetic Peptides, Cell Signalling, Biology of Tuberculosis

Infection, Systems Biology

RNA Biology, Molecular Biology, Cell Biology, Rao, MRS

Neurooncology

Roy, Rajendra P Synthetic Protein Chemistry and Chemical Biology Roy, Siddhartha Chemical Biology, Protein-Nucleic Acid Interaction, Peptide

Therapeutics

Roy, Syamal Immunology, Parasitology, Vaccine Research

Saha, Bhaskar Immunology, Signal Transduction, Infectious Disease Biology Sahni, Girish Protein Engineering, Molecular Biology, Biotechnology and

Enzymology

Salunke, D M Structural Biology, Macromolecular Crystallography and Immunology

Structural Biology, Translation of Genetic Code, Enzyme Mechanisms

Sarin, Apurva Immunology, Cell Biology, Apoptosis

Sarkar, Debi Prasad Membrane Biology, Biochemistry, Molecular Virology, Cell

Biology and Biotechnology

Sarkar, P K Thyroid Hormones & Brain Development, Molecular Biology

and Endocrinology, and Neurodegenerative Diseases

Sasisekharan, V Molecular Biophysics

Sankaranarayanan, R

Savithri, H S Plant Molecular Virology, Protein Chemistry, and Enzymology

Shaha, Chandrima Cell Biology and Biochemistry

Shaila, M S Molecular Virology and Viral Immunology

Shanmugam, G Molecular Virology, Cancer Biology and Medicinal Plants

Sharma, Amit P Structural Biology, Malaria, Protein Translation

Sharma, R P Developmental Genetics, Mutagenesis, Molecular Biology

and Biotechnology

Sharma, Shobhona Molecular Parasitology, Parasite Immunology and Parasite

Metabolism

Sharma, Yogendra Biophysics, Biochemistry and Protein Structure & Function

Shivashankar, G V Biophysics, Cell Biology, Gene Expression

Sikdar, S K Cellular Neurophysiology, Ion Channel Physiology, Pharmacology, Biophysics, Calcium Dynamics

Singh, B B Radiation Biology, Biophysics, Intellectual Property Rights,

Nuclear & Constitutional Law

Singh, Lalji Molecular Biology, DNA Fingerprinting, Wildlife Conservation

and Genetic Diversity

Singh, T P Structural Biology, Protein Structures, Peptide Design and

Drug Discovery

Singh, Yogendra Bacterial Pathogenesis, Cell Biology

Sinha, Pratima Molecular Genetics of Yeast and Molecular Biology
Sitaramam, V Bioenergetics, Biomembranes and Biochemistry
Sowdhamini, R Structural Bioinformatics, Protein Domain Superfamilies,

Computational Genomics

Srinivasan, N Protein Functions, Structures & Evolution, Bioinformatics in

Genomics and Metabolism & Signal Transduction

Surolia, A Protein Chemistry, Protein Folding, Function & Design for

Therapeutics, Immunity & Neurosciences

Sushil Kumar Genetics, Food Crops and Medicinal & Aromatic Plants
Swamy, M J Protein Chemistry & Protein-Ligand Interaction, Lipid Phase

Behaviour & Polymorphism and Lipid-Protein Interaction

Swarup, Ghanshyam Molecular & Cell Biology, Molecular Basis of Diseases, Cell

Signalling, Membrane Vesicle Trafficking,

Talwar, G P Endocrinology, Reproductive Health and Immunology

Tatu, Utpal S Molecular Chaperones, Infectious Diseases

Thangaraj, K Population Genetics, Evolutionary Biology, Clinical & Medical

Genetics, Ancient DNA & Forensic Genetics

Tole, Shubha Neuroscience, Developmental Biology

Tyaqi, Anil K Molecular Biology, Biochemistry and Microbiology

Udgaonkar, Jayant B Physical Biochemistry and Protein Folding

Varadarajan, R Protein Structure & Folding

Varshney, Umesh Molecular Biology, Protein Biosynthesis and DNA Repair VijayRaghavan, K Developmental Biology, Genetics and Neurogenetics Vijayan, M X-ray Crystal Structure Analysis, Protein & Crystallography

and Molecular Biophysics

Computational Biology, Molecular Dynamics & Graph Vishveshwara, Saraswathi Theoretic Approaches to Biomolecular Structure & Function Visweswariah, Biochemistry, Protein Structure & Function and Signal

Sandhya S Transduction

Yathindra, N Computational Structural Biology

#### **MATHEMATICAL SCIENCES**

Total Fellows: 89

Specialisation Name Adimurthi, Adi Nonlinear Differential Equations Athreya, K B Probability Theory, Stochastic Processes and Mathematical Statistics Athreya, Siva R Probability Theory Bag, A K History of Mathematics, Astronomy & Technology in India Bagchi, Bhaskar Finite Geometry, Combinatorial Topology and Operator Balaji, V Algebraic Geometry, Representation Theory and Topology Balasubramanian, R Analytic Number Theory Bambah, R P Number Theory and Discrete Geometry Bapat, R B Combinatorial Linear Algebra and Generalised Inverses Bhat, B V Rajarama Quantum Probability, Operator Algebras and Operator Theory Bhatia, R Analysis of Matrices and Operators in Hilbert Space Bhatt, Subhash J Banach & Topological Algebras, Operator Algebras & Applications, Harmonic Analysis Bhatwadekar, S M Commutative Algebra and Algebraic Geometry Bhosle, Ushadevi N Algebraic Geometry Biswas, Indranil Algebraic Geometry, Differential Geometry and Deformation Quantization Bose, Arup Probability and Statistics, Economics

Bose, S K Applied Mathematics, Solid Mechanics, Fluid Mechanics

and Sediment Transport

Analysis and Theory of Numbers Chandrasekharan, K

Chaudhuri, Probal Robust & Nonparametric Statistics, Statistical Computing,

Statistical Methods in Pattern Recognition and Image Processing, Modelling & Analysis of Genomic Data

Dani, S G Ergodic Theory, Dynamics, Measures on Lie Groups and

History of Mathematics

Datta, Basudeb Geometric Topology, Algebraic Topology, Combinatorics

Automorphic Forms, Number Theory, Galois Ghate, Eknath

Representations, Arithmetic Geometry

Ghosh, J K Bayesian Mathematical Statistics & Applications Ghosh, Mrinal K Stochastic Control, Stochastic Differential Games and

Stochastic Finance

Goswami, Debashish Noncommutative Geometry, Quantum Groups, Operator

Algebra

Hans-Gill, R J Number Theory, Discrete Geometry and Geometry of

Numbers

lyer, Jaya N Algebraic Geometry

Joseph, K T Hyperbolic Systems of Conservation Laws, Boundary

Layers, Parabolic Partial Differential Equations, Burgers Equation and Mass Distribution of Large Scale Structures

Kannan, V Analysis and Topology

Karandikar, R L Psephology, Stochastic Calculus, Stochastic Finance,

Stochastic Filtering Theory Monte Carlo Methods and

Markov Processes

Partial Differential Equations, Homogenization and Kesavan, S

Isoperimetric Inequalities

Khanduja, Sudesh K Algebra, Valuation Theory, Algebraic Number Theory Mahan, Mj

Kaehler Groups, Geometric Group Theory, Geometric

Topology, Hyperbolic Geometry

Misra, Gadadhar Operator Theory and Operator Spaces Mohan Kumar, N Commutative Algebra and Algebraic Geometry Mukerjee, Rahul Design of Experiments, Asymptotic Theory and Survey

Sampling

Nadkarni, M G Ergodic Theory and Commutative Harmonic Analysis

Nagaraj, DS Algebraic Geometry, Vector Bundles

Narasimhan, M S Algebraic & Differential Geometry and Analysis Nath, G Fluid Mechanics, Magnetohydrodynamics and Turbomachines

Algebraic Geometry

Nitsure, Nitin Nori. M V Algebraic Geometry

Pal, Arup K Operator Algebras, Noncommutative Geometry, Quantum

Groups

Pani A K Numerical Analysis, Partial Differential Equations, Industrial

Mathematics

Parameswaran, A J Algebraic Geometry, Singularity Theory and Vector Bundles Algebraic Geometry, Topology and Differential Geometry Paranjape, K H

Parimala, R

Parthasarathy, K R Probability Theory, Group Representations, Quantum

Probability, Computing and Information

Representations of Semi-Simple Lie Groups, and Parthasarathy, R

Topological Dynamical Systems

Parthasarathy, T Mathematical Theory of Games, Operations Research and

Global Univalence

Passi, I B S Algebra
Prakasa Rao, B L S Statistics

Prasad, Dipendra Automorphic Forms and Number Theory
Prasad, Gopal Lie Groups and Algebraic Groups

Prasad, Phoolan Theory of Wave-Propagation, Partial Differential Equations

and Fluid Mechanics

Radhakrishnan, J Algorithms, Information Theory, Computational Complexity,

Combinatorics and Quantum Computing

Raghavan, K N Representation Theory

Raghunathan, M S Lie Groups and Algebraic Groups

Rajan, C S Automorphic Forms, Arithmetic Geometry and

Representation Theory

Ramadas, T R Geometry and Mathematical Physics

Ramanan, S Algebraic Geometry and Differential Geometry
Ramasubramanian, S Stochastic Processes, Stochastic Models in Insurance
Ramaswamy, Mythily Nonlinear Functional Analysis, Partial Differential Equations,

and Applications to Control Problems

Ramdorai, Sujatha Algebra, Quadratic Forms, Number Theory and Iwasawa

Theory

Rangarajan, Govindan Nonlinear Dynamics & Chaos, Time Series Analysis,

Mathematical Biology

Rao, C R Statistics with Applications to Biology, Signal Processing

and Pattern Recognition

Rao, Ravi A Classical Algebraic K-Theory, Commutative Algebra, Linear

Algebra

Rao, T S S R K Functional Analysis, Geometry of Banach Spaces

Roy, Rahul Probability, Stochastic Processes

Rudraiah, N Fluid Mechanics, Magnetohydrodynamics, Electrodynamics,

Stability of Flows, Heat & Mass Transfer, Biomechanics,

Dispersion Phenomena

Sane, Sharad S Finite Geometries, Design Theory and Graph Theory

Sankaran, P Topology and Lie Groups Seshadri, C S Algebraic Geometry

Shah, Nimish A Ergodic Theory, Lie Groups, Number Theory

Shorey, T N Theory of Numbers

Shrikhande, S S
Combinatorial Mathematics and Graph Theory
Singh, Balwant
Singhi, N K M
Discrete Mathematics, Designs and Finite Geometries
Sinha, K B
Spectral Theory of Operators, Non-Commutative Geometry

and Stochastic Processes

Sitaram, A Harmonic Analysis on Euclidean Spaces and on Lie Groups

Sridharan, Ramaiyengar Algebra

Srinivas, V Algebraic Geometry, Algebraic K-Theory and Commutative

Algebra

Sunder, V S Von Neumann Algebras and Subfactors

Suresh, V Algebra, Quadratic Forms & Division Algebras, and

Arithmetic Geometry

Thangavelu, S Harmonic Analysis on Lie Groups, Classical Analysis and

Partial Differential Equations

Thiagarajan, PS Distributed Probabilistic Systems, Hybrid Systems and

Computational Systems Biology

Vanninathan, M Partial Differential Equations, Numerical Analysis,

Asymptotic Analysis, Homogenization and Control of PDE

Monodromy Groups, Rigidity & Arithmeticity of Lattices, Cohomology of Arithmetic Groups and Shimura Varieties Venkataramana, T N

Verma, Kaushal Complex Analysis

Gangal, S V

# **MEDICINE**

Total Fellows: 87

	Total Tellows. 67
Name	Specialisation
Acharya, S K	Gastroenterology, Hepatology and Liver Diseases
Aggarwal, Amita	Clinical Immunology, Rheumatology, Juvenile Arthritis
Aggarwal, Rakesh	Gastrointestinal & Liver Diseases, Viral Hepatitis, Epidemiology and Health Economics
Agrewala, J N	Immunology, Vaccine, Drug Discovery
Anand, Anuranjan	Human Genetics & Genomics, Neurogenetics, Developmental Genetics
Arankalle, Vidya A	Virology, Molecular Biology, Vaccine, Hepatitis Viruses, Emerging-Reemerging Viruses
Awasthi, Shally	Paediatric Pulmonology, Infectious & Parasitic Diseases, Clinical Trials
Balasubramanian, A S	Biochemistry, Neurochemistry and Enzymology
Balasubramanian, K A	Oxidative Stress, Gastrointestinal Mucosa and Pathophysiology
Banerjee, K	Virology, Epidemiology and Immunology of Virus Diseases
Bapat, Sharmila A	Cancer Stem Cells, Epithelial-Mesenchymal Transitions
Bhan, M K	Paediatrics, Gastroenterology, Infectious Diseases and Nutrition
Bhandari, Nita	Nutrition-Infection Interaction, Child Health, Nutritional Interventions, Clinical Evaluation of Vaccine
Bhisey, Rajani A	Environmental Carcinogenesis and Molecular Epidemiology of Cancer, Occupational Hazards
Chandy, Mammen	Hematology, Bone Marrow Transplantation and Molecular Genetics of Blood Diseases
Chaturvedi, U C	Medical Microbiology, Virology and Immunology
Chitnis, Chetan E	Molecular Parasitology, Vaccine Development for Malaria and Molecular & Cell Biology
Das, B C	Molecular Virology, Human Genetics and Stem Cell Biology, Molecular Oncology
Dash, Debabrata	Cell Biology, Signal Transduction, Nanobiotechnology
Deo, M G	Pathology, Oncology and Medical Education
Dikshit, Madhu	Redox Biology, Cardiovascular Pharmacology, Molecular Pharmacology, Neutrophiles and Nitric Oxide Synthase
Dua-Sharma, Sushil	Neurophysiology, Reproductive Biology and Nutrition
Gaitonde, B B	Communicable Diseases, Clinical Pharmacology and Indigenous Drugs

Allergy, Immunology and Biochemistry

Gangal, Sudha G Cancer & Basic Immunology, Cell Biology and Genetic

Microbiology, Immunology, Biotechnology and Public Ganguly, N K Health

Molecular Biology of V.cholerae and Recombinant DNA Ghosh, Amit

Technology

Gopalan, C Nutrition and Medical Research

Developmental Neurobiology, Environment & Neural Gopinath, Gomathy

Plasticity and Neural Transplantation

Autoimmune Endocrine Disorders, Sporadic Idiopathic Goswami, Ravinder

Hypoparathyroidism and Metabolic Bone Disorders including Vitamin D Deficiency

Gupta, Satish K Immunology, Reproductive Immunology and Reproductive

Biology, Vaccines, Anti-Body Engineering

Indira Nath Immunology, Leprosy and Pathology

Medical Biostatistics, Medical Research Methodology, Indrayan, Abhaya

Medical Informatics

Jacob John, T Infectious Diseases and Virology

Jagannathan, NR Biophysics, Magnetic Resonance Imaging (MRI), In-vivo

MR Spectroscopy, Biomolecules, Cancer Research,

Functional MR Studies, Metabolomics

Jameel, S Molecular Biology and Molecular Virology

Kalyanaraman, S Neurosurgery

Enteric Virology, Vaccines Kang, Gagandeep

Kartha, C C Cardiac Pathology, Cardiac Biology and Cell-based

Therapies

Molecular Biology and Functional Genomics of Katoch, V M

Mycobacteria, Taxonomy, Epidemiology of Mycobacterial Diseases

Functional Genomics, Population Genomics, Ayurgenomics

Kochupillai, N Internal Medicine, Clinical Endocrinology Metabolism,

Diabetes and Biotechnology

Krishnaswamy, Kamala Internal Medicine, Nutritional Sciences and Clinical

Pharmacokinetics

Stem Cell Transplantation, Multiple Myeloma, Haemato-Kumar, Lalit

Oncology, Gynaecologic Oncology

Mandal, Chitra Glycobiology, Immunobiology and Glycoimmunology Mathur, Asha Virology, Immunology and Medical Microbiology Mishra, A C Epidemiology, Viral Infections, Zoonotic Disease

Diagnostics and Vaccine Development

Misra, U K Clinical Neurology, Neurophysiology and Tropical

Neurology

Mittra, Indraneel Cancer Surgery, Cancer Biology and Cancer Prevention Mohan, V Diabetes and its Complications, Epidemiology, Genomic

Studies

Mukerji, Mitali Mukhopadhyay, Sangita

Immunology, Cell Signalling, Communicable Diseases Nageswara Rao, G Cornea, Community Eye Health and Eye Care Policy &

Planning

Nair, G Balakrish Clinical Microbiology, Molecular Epidemiology, Diarrhoeal

Diseases

Nayak, N C Pathology, Oncology and Liver Diseases

Nityanand, Soniya Immunology and Haematology

Pal, G P Human Anatomy, Clinical Anatomy and Biomechanics of Spine

Panda, S K Liver Pathology, Viral Hepatitis and Molecular Biology/

Open Heart Surgery, Extracorporeal Circulation, Coronary Parulkar, G B

Bypass Surgery and Vascular Surgery

Pillai, M Radhakrishna Tumour Biology, Tumour Virology

Human Immunogenetics, Immunology of Infectious Pitchappan, R M

Diseases and Human Genomics

Rajshekhar, V Neurosurgery, Cysticercosis, Cervical Spine Surgery Raju, TR Developmental Neuroscience, Neurodegeneration and

Neuronal Plasticity

Ramakrishna, B S Gastroenterology, Diarrhoeal Disease, Inflammatory Bowel

Disease, Gastrointestinal Microbiota, Stem Cells

Rangarajan, PN Eukaryotic Gene Expression and Infectious Diseases Neurovirology, Viral Diagnostics, Molecular Epidemiology Ravi, V

of Viral Infections

Ravindranath, Neuroscience, Toxicology and Pharmacology

Vijayalakshmi

Sanyal, S C Medical Microbiology, Pathogenicity, Nosocomial

Infections, Infection Control and Antimicrobial Therapy

Sarin, S K Hepatology Sarkar, Chitra Neuropathology

Saxena, R K Immunology, Toxicology, Nanoparticles

Sharma, K N Neurophysiology, Behaviour, Biocontrols and Hospital

Environmental Medicine, Infectious Diseases, Internal Sharma, Surendra K

Medicine, Pulmonary & Critical Care Medicine, Sleep

Medicine

Sharma, V P Malariology and Vector Biology & Control

Sharma, Y D Molecular Biology, Molecular Malariology and Protein

Sinha, Subrata Molecular Oncology and Immunology Somasundaram, K Cancer Biology, Genetics and Virology

Sundar, Shyam Medicine, Infectious Diseases and Visceral Leishmaniasis Surolia, Namita Molecular Parasitology, Biochemistry and Molecular Biology

Paediatrics, Tuberculosis, HIV Co-infection, TB Swaminathan, Soumya

Pathogenesis

Tandon, Nikhil Endocrinology, Chronic Disease Epidemiology

Tandon, P N Neurosciences and Neurosurgery

Tyagi, Jaya S Molecular Biology, Mycobacteriology and Gene Regulation Valiathan, MS Cardiac Surgery, Cardiovascular Materials and Ayurveda

Varma, R M Neurosurgery

Vrati, Sudhanshu Molecular Virology, Vaccinology and Biotechnology Wadhwa, Shashi Human Anatomy, Neuroanatomy and Developmental

Wadia, N H Clinical Neurology and Neurosciences

### **PHYSICS**

	Total Fellows: 208
Name	Specialisation
Agarwal, G S	Quantum Optics, Quantum Information Science,

Plasmonics, Stochastic Processes

Agrawal, P C X-ray Astronomy and Experimental High Energy

Astrophysics

Nonlinear Phenomena, Chaos and Statistical Physics Amritkar, R E Theoretical Materials Science, Condensed Matter and Ananthakrishna, G

Dynamical Systems & Chaos

Radio Sciences, Extragalactic Radio Astronomy, Sun & Ananthakrishnan, S

Solar Wind, Antennas, Interferometry Techniques and

Analog RF Electronics

Solar Physics, Helioseismology and Numerical Techniques Antia H M Balakrishnan, V Statistical Physics, Stochastic Processes and Dynamical

Systems

Banerjee, Sunanda Experimental High Energy Physics

Barma, M Statistical Physics

Barua, A K Solid State Materials, Thin Film Technology and Thin Film

Solar Cells

Baskaran, G Theoretical Physics, Strongly Correlated Electronic

Systems and Quantum Processes in Biology

Bhat, S V Experimental Condensed Matter Physics, Solid State NMR,

Electron Paramagnetic Resonance, Magnetism and

Physics of Glass Transitions

Bhattacharjee, J K Critical Phenomena, Turbulence and Nonlinear Dynamics Bhattacharjee, S M Statistical Physics and Condensed Matter Physics Bhattacharya, Dipankar High Energy Astrophysics, Neutron Stars and Cosmic

Explosions

Bhattacharyya, Gautam Particle Physics Phenomenology Bhawalkar, D D Lasers and laser Instrumentation

Bose, Indrani Theoretical Condensed Matter Physics, Statistical Physics,

Biological Physics and Systems Biology

Budhani, R C Experimental Condensed Matter Physics,

Superconductivity and Magnetism

Chaddah, P Superconductivity, Low Temperature Physics and Phase

Chakrabarti, B K Statistical Physics, Condensed Matter Physics and

Computational Physics & their Applications to Social

Chaturvedi, Subhash Mathematical Physics, Quantum Optics, Quantum

Information and Computation

Chengalur, J N Radio Astronomy, Galaxies

High Pressure Physics, Neutron Crystallography, Materials Chidambaram, R

Science and Nuclear Technology

Chitre, S.M. Solar Physics, Relativistic Astrophysics and Gravitational

Lenses

Chopra, K L Physics & Technology of Thin Films, Nanomaterials,

Surface Science and Photovoltaics

Choudhury, Debajyoti Cosmology, High Energy Physics Chowdhury, Debashish Statistical Physics, Condensed Matter Physics and

Biological Physics

Cowsik, R Astrophysics, Non-Accelerator Particle Physics and

Experimental Gravitation

Dabholkar, Atish Quantum Gravity, Superstring Theory and Black Holes Laser Plasma Interactions, Plasma Physics, Turbulence, Das, Amita

Electron Magnetohydrodynamics

Condensed Matter Theory, Statistical Physics and Das, S P

Stochastic Processes

String Theory, Quantum Aspects of Black Holes, Quantum Das, SR

Field Theory

Dasannacharya, B A Neutron & X-ray Spectrometry and Condensed Matter

**Physics** 

Dasgupta, C Theoretical Condensed Matter Physics and Statistical

**Physics** 

Dattagupta, S Condensed Matter Physics and Non-Equilibrium Statistical

Mechanics

Deepak Kumar Condensed Matter Physics, Quantum Mechanics and

Statistical Mechanics

Dev, B N Surface & Nanoscale Physics, X-ray Physics and Ion-Solid

Dhar, Abhishek Nonequilibrium Statistical Physics, Condensed Matter

Physics

Dhar, D Statistical Physics and Stochastic Processes

Dhurandhar, S V Gravitational Waves, General Relativity and Theoretical

Astrophysics

Dighe, Amol High Energy Physics, Phenomenology, Astroparticle

**Physics** 

High Energy Particle Physics Ganguli, S N

Gavai, Rajiv V High Energy Physics, Quantum Field Theory, Lattice Field

Theories, Quark-Gluon Plasma, and Relativistic Heavy Ion

Collisions and Early Universe

Ghosh, Arindam Experimental Condensed Matter Physics, Semiconductor

Physics, Nanodevice Technology

Condensed Matter & Materials Physics, Disorder Polymer Ghosh, Aswini

& Nanomaterials, Structure, Relaxation Dynamics & Scaling, Broadband Dielectric Spectroscopy & Scaling of

Relaxation Spectra

Ghosh, Swarna K Infrared Astronomy, Interstellar Medium and Astronomical

Instrumentation

Godbole, Rohini M Elementary Particle Physics, Field Theory and

Godwal, B K High Pressure Physics, Electron States and Dense Plasma

Gopakumar, R Theoretical Physics, Quantum Field Theory and String

Gopal Krishna Astronomy, Active Galaxies and Observational Cosmology

Magnetism & Superconductivity, , Zero-Magnetization Grover, Arun K

Systems and Applications in Spintronics, Vortex State Studies in Superconductors and Strongly Correlated

Systems

Gupta, L C Superconductivity & Magnetism in Quaternary Borocarbide

and other Rare Earth based Materials, Nuclear/Magnetic Quadrupole Resonance Studies, Phenomena of Mixed

Valance & Heavy Fermions

Gupta, Pradeep K Lasers, Biomedical Applications of Lasers, Nonlinear

Optics, Laser Materials

Gupta, Sourendu Particle Physics, Lattice Field Theory Astronomy & Astrophysics, Radio Astronomy Gupta, Yashwant

Instrumentation and Signal Processing

Gurtu Atul Experimental High Energy Physics

Hariharan, P Optics

Mathematical Modelling of Complex Systems, Structure, Jain, Sanjay

Dynamics and Evolution of Biological & Social Networks,

Theoretical Systems Biology

Condensed Matter Physics, Stochastic Processes & their Jayannavar, A M

Applications to Physical Problems, Classical & Quantum Transport Problems in Random Media and Physics of Mesoscopic Systems

Jayaraman, A High Pressure Physics

Jha, SS Solid State Theory, Quantum Computing and Photonics Jog, Chanda J Galactic Dynamics, Interacting & Star Burst Galaxies and

Interstellar Molecular Clouds

John, P I Plasma Physics, Intense Particle Beams and Industrial

Applications of Plasma

Joshi, S K Solid State Physics and Atomic & Molecular Collisions

Joshipura, AS Theoretical High Energy Physics

Kailas, S Nuclear Optical Model, Heavy-Ion induced Fission/Fusion

and Accelerator-based Multidisciplinary Science Condensed Matter Theory, Computational Physics,

Kanhere, D G Strongly Correlated Systems and Density Functional

Kapoor, S S Nuclear Physics, Nuclear Radiation Detectors, Accelerator-

based Research and Development & Applications in

Nuclear Energy

Kaul, R K Particle Physics, Quantum Field Theory and Quantum

Gravity

Kaul, S N Condensed Matter Physics, Phase Transitions & Critical

Phenomena, Disordered Systems Percolation and Magnetism & Magnetic Materials, Physics at Nanometer Length Scale

Kaw, PK Plasma Physics

Kembhavi, A K High Energy Astrophysics, Active Galactic Nuclei, External

Galaxies, Virtual Observatory

Khare, Avinash Plasma Physics, Statistical Mechanics, Critical

Phenomena, Plasma Astrophysics

Khare, A V High Energy & Elementary Particle Physics,

Supersymmetric Quantum Mechanics and Nonlinear

Krishna, P Crystallography, Imperfection in Solids, Education and

Science & Society

Krishna Swamy, K S Astrophysics Krishnakumar, E Atomic Collision Processes, Molecular dynamics and

Electron Control Chemistry

Krishnamurthy, H R Condensed Matter Physics, Statistical Physics and

Quantum Many-Body Theory

Krishnamurthy, M Intense Laser Plasma Physics, Atomic & Molecular

Physics, Optical Sciences

Kulkarni, P V Atmospheric Optics, Aeronomy and Infrared Astronomy Kulkarni, Sulabha K Surface Physics, Materials Science and Nanoscience Kumar, G Ravindra Interaction of Intense Light Pulses with Matter, High

Energy Density Science, Nonlinear Optics

Kumar, N Condensed Matter Physics, Stochastic Transport Processes & Statistical Physics, High Temperature

Superconductivity and Localization in Disordered Systems

Theoretical & Mathematical Physics, Nonlinear Classical &

Quantum Integrable Systems, Field Models with

Topological Charges

Lakshmanan, M Nonlinear Dynamics, Theoretical Physics and Mathematical

Physics

Madhusudana, N V Liquid Crystals

Kundu, Anjan

Mahadevan, Priya Electronic Structure of Materials, Magnetism,

Nanostructure Materials

Mahajan, K K Atmospheric & Space Science, Ionosphere, Atmospheres

of Earth & Planets

Maharana, J String Theory, Field Theory and Quantum Gravity
Maiti, Kalobaran Correlated Electron Systems, Magnetism &

Superconductivity, Electron Spectroscopy

Majumder, Gobinda Calorimeter, B-Physics & CP-violation, Electroweak Physics

Collider

Malik, S K Rare Earth Magnetism, Superconductivity and Strongly

Correlated Electron Systems

Mandal, Gautam Quantum Field Theory, Gravity, String Theory
Mande, C X-ray Spectroscopy and Solid State Physics

Mani, H S Elementary Particle Physics
Mantravadi, M V Optics and Optical Engineering

Mathews, P M Geoastronomy & Geodynamics, Quantum Theory of Particles & Fields, Statistical Mechanics and Mathematical

Methods

Mathur, D Atomic, Molecular & Optical Physics, Intense & Ultrafast

Lasers, Molecular Dynamics and Biological Physics

Mehta, C L Quantum & Statistical Optics and Mathematical Physics

Menon, M G K Cosmic Rays, Particle Physics

Menon, T K Astrophysics

Minwalla, Shiraz String Theory, Gravity, Quantum Field Theory
Mitra, A N Theoretical, Nuclear & Quark Physics

Mondal, N K Experimental Particle Physics, Accelerator-based Particle

Physics and Neutrino Physics

Mukhi, Sunil String Theory, Quantum Gravity, Supersymmetry
Mukunda, N Theoretical Particle Physics, Mathematical Physics,

Mechanics and Theoretical Optics

Murthy, M V N Particle Physics, Phenomenology, Quantum Statistics and

Semiclassical Methods

Nagarajan, R Superconductivity, Magnetism, Mossbauer Spectroscopy,

Instrumentation, Cryogenics and Heavy Fermion Behaviour

Narasimham, V S Cosmic Ray Physics and Particle Physics
Narayan, K S Organic/Polymer Electronics, Device Physics,

Bioelectronics, Photovoltaics

Narayanamurti, V Solid State, Nanoscience, Electronic Materials, Science

Policy

Narlikar, A V Superconductivity, Low Temperature Physics and STM &

Related Techniques

Narlikar, J V Cosmology, General Relativity and Gravitation

Nayak, T K Nuclear & High Energy Physics Experiment, QCD Phase

Transition & Quark, Gluon Plasma, Phases of Nuclear

Matter

Nityananda, R Physics Education, Optics, Image Processing, Statistical

Methods in Physics & Astronomy

Ogale, S B Nanoscience & Nanotechnology, Metal Oxide Thin Films

and Heterostructures, Dye Sensitised Solar Cells, Solar

Water Splitting

Ojha, D K Star Formation & Interstellar Medium, Infrared Astronomy,

Astronomical Instrumentation

Padmanabhan, T Gravitation, Quantum Theory, Cosmology and Structure

Formation

Pal, Amalan J Organic Solar Cells, Organic Photovoltaic Devices,

Nanophotovoltaics, Organic Electronics, Device Physics,

Organic Sprintronics

Pal, M K Nuclear Physics

Pal, Yash Physics, Astrophysics, Space Technology and

Communications

Panchapakesan, N General Relativity, Cosmology and Astroparticle Physics,

Science Education

Pandey, Dhananjai Condensed Matter Physics, Materials Science,

Crystallography, Structural Phase Transitions and

Ferroics & Multiferroics

Pandit, Rahul Statistical Mechanics of Phase Transitions, Condensed

Matter Theory, Spatiotemporal Chaos, Turbulence in Fluids, Plasmas and Mathematical Models for Cardiac

Tissue

Pandita, P N Theoretical High Energy Physics and Astroparticle Physics

Pandya, S P Nuclear Physics
Pasupathy, J Theoretical Physics
Pathak, K N Condensed Matter Physics

Pati, Arun K Quantum Information Theory, Quantum Computing,

Foundations of Quantum Theory

Porsezian, K Solitons, Modulational Instability, Nonlinear Fibre Optics,

Partial Differential Equations

Pradhan, T Elementary Particles & High Energy Physics, Plasma

Physics and Atomic Physics

Puri, Sanjay Statistical Physics, Condensed Matter Physics and

Nonlinear Dynamics

Raghunathan, V A Soft Matter Physics and Scattering Techniques

Rai Choudhuri, Arnab Theoretical Astrophysics, Magnetohydrodynamics and

Solar Physics

Rai Choudhury, S Particle Physics

Raja Gopal, E S Solid State Physics, Statistical Physics and Instrumentation Rajaraman, R Theories of Elementary Particles, Quantum Field Theory &

Many-Body Theory, Military & Civilian Nuclear Policy

Rajasekaran, G Quantum Field Theory and High Energy Physics
Ram Sagar Astronomy & Astrophysics and High Energy Physics

Ramachandran, R Particle Physics

Ramakrishnan, Srinivasan Low Temperature Physics

Ramakrishnan, T V Condensed Matter Physics and Statistical Mechanics
Ramamurthy, V S Science & Technology Policy, Nuclear Physics,

Applications of Low Energy Accelerators

Ramaswamy, M K Nuclear Physics, Positron Annihilation, Logistics and

Computer Systems Quality & Security

Ramaswamy, Sriram R Condensed Matter Physics, Non-Equilibrium Statistical

Physics and Physics of Biological Systems

Ramdas, A K Condensed Matter Physics, Semiconductor Physics,

Optical Phenomena and Solid State Spectroscopy

Ranganath, G S Liquid Crystals and Optics

Rao, A R X-ray Astronomy, X-ray Instrumentation, High Energy Astrophysics

Sun & Solar Wind, Wave Propagation in Random Media,

Aperture Synthesis and Radio Imaging
Rao, Madan Nonequilibrium Statistical Mechanics, Soft Condense

Nonequilibrium Statistical Mechanics, Soft Condensed Matter Physics, Biological Physics

Rao, U R Cosmic Rays, Space Physics, Space Technology, Space

Applications, Space Science, Avionics, Electronics, Interplanetary Physics, Satellite & Rocket Technology,

High Energy Astronomy

Ravindran, V Perturbative Quantum Chromodynamics

Raychaudhuri, Amitava Particle Physics

Rao, A Pramesh

Raychaudhuri, Arup K Nanosciences & Technology, Experimental Solid State &

Low Temperature Physics and Instrumentation

Development

Rindani, S D Particle Physics

Roy, A P Condensed Matter Physics

Roy, D P Particle Physics, Astroparticle Physics
Roy, Probir Particle & Astroparticle Physics, Field Theory,

Phenomenology Phenomenology

Roy, S M Quantum Information and Foundations of Quantum Theory
Roy Barman, S Electron Spectroscopy, Surface Science, Materials Studies
Saha-Dasgupta, Tanusri Condensed Matter Physics, Computational Materials

Science, Electronic Structure Calculations

Sahni, Varun B General Relativity & Gravitation, Cosmology: Dark Matter &

Dark Energy, Formation of Galaxies, Superclusters & Voids, Cosmic Microwave Background and extra

dimensions

Sami, Mohammad Cosmology, Higher Dimensional Gravity, High Energy

Physics

Sampathkumaran, E V Spin-Chain Behaviour, Kondo Lattices, Strong Electron

Correlations, Multiferroics, Magnetism, Superconductivity,

Geometrical Frustration

Sanyal, M K Electronic Transport in Nanostructured Materials,

Condensed Matter Physics, Surface Physics, Nanomaterials and Synchrotron X-ray Scattering

Sarkar, Utpal Particle & Astroparticle Physics

Sastry, Srikanth Glasses & other Structurally Arrested Matter, Statistical

Mechanics, Liquids and Glass Transition

Satya Prakash Planetary, Atmospheric and Space Plasmas

Sen, Abhijit Plasma Physics, Nonlinear Dynamics and Free Electron

Lasers

Sen, Ashoke Superstring Theory

Sen, Diptiman Theoretical Condensed Matter Physics and Quantum Field

Theory

Sengupta, Krishnendu Condensed Matter Theory

Sengupta, Surajit Condensed Matter Physics, Statistical Mechanics and

Materials Science

Sharma, Surinder M Condensed Matter Physics under High

Pressures, Synchrotron Beamlines, Molecular Dynamics

and First Principles Calculations

Shashidhar, R Nanoscience & Nanotechnology, Nanostructured Materials,

Liquid Crystals & Display Devices, Molecular & Organic Electronics, Nanoelectronics and Nanomaterials

Shastry, B S Strongly-Correlated Fermi Systems, Quantum Integrable

Systems

Shenoy, S R Condensed Matter Physics and Statistical Physics

Shenoy, V B Condensed Matter Theory, Strongly-correlated Systems,

Cold Atom Physics

Sikka, S K High Pressure Physics, X-ray & Neutron Diffraction, Band

Theory and Nuclear Explosions

Simon, R Quantum & Classical Optics, Quantum Information Theory

and Foundations of Quantum Theory

Singh, K P X-ray Instrumentation for Astronomy, Active Galactic

Nuclei and Cataclysmic Variables, Stellar Coronae, Hot Interstellar & Intracluster Media and Supernova Remnants

Singh, Virendra Theoretical Physics, Quantum Mechanics and History &

Philosophy of Science

Singh, Yashwant Condensed Matter Physics, Statistical Mechanics and

olymers

Sinha, B C Nuclear Physics, High Energy Physics, Quark Gluon

Plasma, Nuclear Medicine Precursory Signals of Earthquakes, Helium from Thermal Spring and Early

Universe Cosmology

Sinha, K P Solid State Physics, Complex Systems, Non-Equilibrium

Quantum Coupling, Low-energy Nuclear Reactions &

Condensed Matter Nuclear Science

Sinha, Sudeshna Nonlinear Dynamics, Chaos, Complex Systems

Sood, A K Raman Spectroscopy, Time-resolved Ultrafast Spectroscopy, Nanosystems such as Graphene, Nanotubes, Physics of Soft Condensed Matter

Souradeep, Tarun Cosmology, High Energy Physics, Early Universe

Sreekantan, B V Cosmic Rays and High Energy Physics

Srianand, R QSO Spectroscopy, Cosmology and Structure Formation

Srinivasan, G Condensed Matter Physics and Astrophysics

Srinivasan, Ramaswami Lattice Dynamics, Cryogenics and Laser Cooling of Atoms Subrahmanya, C R Real-Time Signal Processing for Radio Telescopes, Observational Cosmology, Satellite Orbit Estimation Subramaniam, Annapurni

Stellar Population, Nearby Galaxies, Star Clusters, Stellar

Evolution, Galactic Dynamics

Subramanian, K Cosmic Magnetic Fields, Structure Formation, Cosmology Subramanyam, S V Condensed Matter Physics, Low Temperature Physics, High Pressure Physics, Carbon Films and Conducting

Group Representations, Quantum Optics, Elementary

Sudarshan, E C G

Particle Physics, Quantum Field Theory, Quantum

Computing & Statistical Mechanics

Condensed Matter Physics, Materials Science, Sundar, CS

Experimental Techniques of Positron Annihilation

Spectroscopy and Infrared Spectroscopy

Swarup, Govind Radio Astronomy

Vishveshwara, C V

Name

Tandon, S N Cosmic Rays, Infra-Red Astronomy, Ultraviolet Astronomy

and Instrumentation for Astronomy & Space Astronomy String Theory, Particle Physics and Quantum Field Theory

Trivedi, Sandip P Venkataraman, G Condensed Matter Physics and Parallel Computers Vijayaraghavan, R Solid State Physics, Magnetic Resonance, Materials

Science and Superconductive Electronics General Relativity, Relativistic Astrophysics and

Cosmology

Wadia, S R Quantum Field Theory, String Theory and Quantum Gravity

Waghmare, Umesh V Multi-functional Oxides & Related Materials,

Nanostructures & Materials for Energy & Environment

Specialisation

Warke, CS Theoretical Nuclear Physics

### **PLANT SCIENCES**

Total Fellows: 57

Hame	Opeciansation
Abrol, Y P	Agriculture: Crop Physiology, Environmental Issues
Agrawal, H O	Virology, Microbiology, Environmental Sciences and Biotechnology
Arunachalam, V	Quantitative & Population Genetics, Plant Breeding, Biodiversity (Participatory Plant Breeding)
Babu, C R	Biosystematics, Ecology and Population Genetics
Bhatia, C R	Plant Genetics, Plant Breeding and Biotechnology
Chattoo, Bharat B	Biotechnology, Microbial & Molecular Genetics, Genome

Analysis, Bioprocess Development

Chattopadhyay, Debasis Abiotic Stress of Plants, Plant Virology, Genome

Sequencing

Chattopadhyay, Sudip Developmental Biology and Signal Transduction

Chopra, V L Genetics & Crop Improvement and Plant Biotechnology Dasgupta, Indranil Molecular Plant-Virus Interactions, Transgenic Viral

Resistance in Plants, Genome Organisation in Plant Viruses

Ganeshaiah, K N Plant Evolutionary Biology, Plant Genetics & Breeding, Foraging Ecology of Ants and Biodiversity & Conservation

Plant Abiotic Stress Responses, Plant Biotechnology,

Molecular Biology and Crop Sciences

Cytogenetics, Genetics & Plant Breeding and Crop

Biotechnology

Jain, H K Genetics and Plant Breeding Kempanna, C Genetics and Plant Breeding

Khurana, Jitendra P Photoperception & Signal Transduction in Plants, Structural

& Functional Genomics and Plant Hormone Action

Khurana, Paramjit Plant Biotechnology, Plant Genomics, Molecular Basis of

Plant Differentiation & Morphogenesis

Khush, GS Plant Genetics & Breeding and Biotechnology

Kohli, R K Experimental Ecology, Weed Science, Plantation Forestry

and Urban Forestry

Algology, Microbial Biotechnology, Genetics, Ecology and Kumar, HD

Environment

Kumar, M Udaya Molecular Basis of Stress Resistance, Physiology of Water

Use Efficiency in Plants and Canopy Photosynthesis

Lahiri Majumder, A N Plant Biochemistry and Molecular Biology

Physiology & Biochemistry of Plant Growth & Development Maheshwari, S C

and Plant Molecular Biology

Meher-Homji, V M Plant Ecology, Plant Geography and Bio-Climatology Mohan Ram, HY Plant Growth & Development and Economic Botany Mukherjee, S K Molecular Biology, Extra Chromosomal DNA Replication

and Viral Pathogenesis & RNAi

Pental, Deepak Transgenic Crops and Breeding of Oilseed Mustard Molecular Plant Microbe Interactions, Microbial Podile, Appa Rao

Biotechnology

Raghavendra, A S Plant Physiology/Plant Biochemistry, Plant Metabolomics Ramakrishnan, PS Socio-ecology, Environment and Sustainable Development Reproductive Physiology of Seed Plants, Plant Tissue Rangaswamy, NS

Culture and Biotechnology

Rao, R Raghavendra Plant Taxonomy, Ethnobotany, Phytogeography and

Biodiversity & Conservation

Reddy, A Ramachandra

Sane, P V

Grover, Anil

Gupta, P K

Genetics, Plant Molecular Genetics and Plant Genomics Plant Biochemistry, Photosynthesis and Plant Molecular

Biology

Plant Taxonomy and Conservation Sanjappa, M

Sankara Rao, K Plant Developmental Biology, Biotechnology, Biodiversity

Informatics & Plant Systematics

Santhanam, V Plant Breeding & Genetics, Research Management and

Cotton Development

Sethunathan, N Environmental Microbiology

Cytogenetics, Cytochemistry and Cell Biology Sharma, A K Shastry, S V S Cytogenetics, Taxonomy, Plant Breeding and Rice

Development

Shetty, H Shekar Seed Biology, Seed Pathology & Technology, Molecular

Plant Pathology and Biotechnological Approach to Plant

Disease Management

Shivanna, K R Pollen Biology, Reproductive Ecology and Conservation

Biology

Siddiqi, Imran Genetics, Plant Development, Genetic Recombination Singh, JS Plant Ecology, Ecosystems Analysis and Eco-Physiology

Singh, Randhir Plant Biochemistry and Biotechnology

Sonti, Ramesh V Plant-Microbe Interactions, Plant Genetics and Bacterial

Sopory, S K Molecular Plant Physiology and Plant Tissue Culture &

Transformation

Subrahmanyam, N C Genetics, Plant Molecular Biology and Biotechnology

Subramanian, C V Mycology, Plant Pathology and Evolution Subramanian, D Plant Physiology & Pathology, Biochemistry and

Microbiology & Biotechnology

Swaminathan, MS Genetics, Cytogenetics and Plant Breeding

Tuli, Rakesh Plant Biotechnology, Genetic Engineering and Molecular

Biology, Secondary Metabolism, Food & Nutrition

Biotechnology

Molecular Biology, DNA Replication, Plant Abiotic Stress Tolerance, Signal Transduction and Tissue Culture & Plant Tuteja, Narendra

Transformation, Calcium-powered Forisomes

Tyagi, Akhilesh K Genomics, Regulation Biology and Biotechnology

Uma Shaanker, R Plant Evolutionary Biology, Conservation Genetics, Bio-

prospecting

Veluthambi, K Plant Genetic Engineering, Plant Biotechnology and Plant

Molecular Biology

Vijayraghavan, Usha Plant Developmental Genetics, Microbial Genetics and

Gene Regulation

# **FELLOWS DECEASED IN 2014**

- 1. Ganguly, Parthasarathy
- 2. Gowariker, Vasant Ranchhod (died Jan. 02, 2015)
- 3. Jacob, Tazhuthaveetil Mathai
- 4. Lal, Ravindra Kumar
- 5. Mehta, Vikram Bhagvandas
- 6. Padayatty, Joseph Devassy
- 7. Raghavan, Srinivasacharya
- 8. SivaRaman, Churya
- 9. Udgaonkar, Bhalchandra Madhav
- 10. Varma, Ram Kumar

# **FELLOWS DECEASED SINCE 1934**

		Born	Elected	Deceased
1.	Abhyankar, K.D.	June 21, 1928	1974	Nov. 8, 2007
	Abhyankar, S.S.	June 22, 1930	1988	Nov. 2, 2012
	Abraham, A.	May 25, 1914	1957	May 20, 1994
	Abraham, K.P.	Aug. 28, 1920	1975	Dec. 23, 2011
5.	Acharya, C.N.		1936	_
6.	Adiga, P.R.	May 05, 1935	1982	Sep. 13, 2006
7.	Adyalkar, P.G.	Dec. 3, 1927	1974	Nov. 13, 2007
8.	Agnihothrudu, V.	May 15, 1930	1967	Apr. 5, 1999
9.	Agarwal, S.S.	July 5, 1941	1985	Dec. 2, 2013
10.	Ahmad, F.	Jan. 4, 1916	1974	Mar. 23, 1996
11.	Aiyar, R. Gopala	Jan. 20, 1887	1934*	Jan. 18, 1971
12.	,	Nov. 12, 1896	1975	June 20, 1987
13.	Alikunhi, K.H.	May 27, 1918	1969	Sep. 26, 2010
14.	Ambasankaran, C.	Aug. 22, 1923	1973	Aug. 20, 1990
15.	Anand, B.K.	Sep. 19, 1917	1975	Apr. 2, 2007
16.	Anand Kumar, T.C.	June 18, 1936	1981	Jan. 26, 2010
17.	Ananthakrishnan, R.	Apr. 11, 1911	1938	July 21, 1998
18.	Ananthakrishnan, S.V.	Oct. 4, 1908	1939	Jan. 17, 1989
19.	Ananthanarayanan, L.K.	Dec. 17, 1916	1967	1978
20.	Anantharamaiah, K.R.	Sep. 2, 1952	1994	Oct. 29, 2001
21.	Anantharaman, T R	Nov. 25, 1927	1964	June 19, 2009
22.	Anguli, V.C.	Oct. 25, 1919	1962	July 22, 2000
23.	Anil Kumar	Apr. 10, 1951	1995	Nov. 2, 2002
24.	Appajee, Y.	Mar. 25, 1904	1939	Aug. 5, 1984
25.	Asana, J.J.	July 30, 1890	1934*	Dec. 16, 1954
26.	Asthana, R.P.	Feb. 20, 1906	1945	1965
27.	Asundi, M.K.	May 1, 1930	1975	Dec. 1, 2003
28.	Asundi, R.K.	Aug. 14, 1895	1935 <sup>†</sup>	Feb. 2, 1982
29.	Authikesavalu, M.	Aug. 16, 1906	1948	Sep. 22, 1973
30.	Awasthi, D.D.	Aug. 01, 1922	1978	Aug. 21, 2011
31.	Awati, P.R.	Dec. 18, 1887	1935 <sup>†</sup>	Feb. 16, 1966
32.	Ayer, A. Ananthanarayana		1951	Dec. 9, 1971
33.	Ayyangar, G.N. Rangaswami	May 19, 1887	1934 <sup>†</sup>	Nov. 17, 1968
34.	Ayyangar, N.N.		1935 <sup>†</sup>	Nov. 22, 1940
35.	Ayyar, H. Subramonia	1892	1942	Feb. 28, 1961
36.	Ayyar, P. Ramaswami	Dec. 21, 1889	1936	Mar. 9, 1966
37.	Ayyar, T.V. Ramakrishna	1880	1934 <sup>†</sup>	Feb. 13, 1952

 $<sup>^{\</sup>star}\text{Was}$  one of the first 65 Fellows who founded the Academy.

 $<sup>^{\</sup>dagger}$ A "Foundation Fellow" (so designated according to the Statutes of the Academy in 1934) i.e., those who joined as Fellows till July 1935.

		Born	Elected	Deceased
38.	Ayyar, V. Ramanatha	Oct. 17, 1892	1935 <sup>†</sup>	June 13, 1984
39.	Baba, C.V.K.	Oct. 2, 1937	1977	Dec. 5, 2006
40.	Bachhawat, B.K.	Aug. 16, 1925	1974	Sep. 23, 1996
41.	Badami, J.S.	Dec. 25,1908	1934*	Jan. 13, 2000
42.	Bagchee, K.	Jan. 19, 1898	1935 <sup>†</sup>	Jan. 6, 1973
43.	Bahadur, R.R.	Apr. 30, 1924	1975	June 7, 1997
44.	Bal, D.V.	Aug. 25, 1905	1934,1943	Apr. 1, 1999
45.	Baliah, V.	Aug. 15, 1917	1974	Sep. 26, 2000
46.	Banerjee, D.K.	Jan. 16, 1912	1957	June 10, 1993
47.	Banerjee, I.	May 27, 1898	1949	Jan. 31, 1971
48.	Banerjee, K.	Sep. 15, 1900	1941	Apr. 30, 1975
49.	Banerjee, M.K.	1931	1977	Feb. 18, 2006
50.	Banerji, S.K.	Apr. 27, 1893	1934*	Aug. 10, 1966
51.	Bappu, M.K.V.	Aug. 10, 1927	1960	Aug. 19, 1982
52.	Bardhan, P.N.		1965	Aug. 12, 1966
53.	Barnabas, J.	Oct. 12, 1929	1976	July 30, 1994
54.	Barnard, T.W.		1934*	
55.	Basu, S.	Jan. 2, 1922	1974	Oct. 5, 1992
56.	Bhabha, H.J.	Oct. 30, 1909	1941	Jan. 24, 1966
57.	Bhaduri, A.N.	Nov. 12, 1935	1989	June 5, 2003
58.	Bhagavantam, S.	Oct. 14, 1909	1934*	Feb. 6, 1989
59.	Bhagwat, W.V.	Oct. 10, 1906	1945	Jan. 28, 2000
60.	Bhakuni, Vinod	May 24, 1962	2004	July 15, 2011
61.	Bhalerao, G.D.	Dec. 10, 1897	1937	Dec. 6, 1948
62.	Bharadwaja, Y.	Aug. 13, 1895	1935 <sup>†</sup>	Mar. 25, 1963
63.	Bhargava, B.N.	Dec. 25, 1919	1974	Aug. 3, 2009
64.	Bharucha, F.R.	May 4, 1904	1938	Mar. 30, 1981
	Bhat, J.V.	Mar. 3, 1913	1957	Dec. 21, 1985
66.	Bhatia, B.L.	Aug. 14, 1884	1935 <sup>™</sup>	July 15, 1941
67.	Bhatia, S.L.	Aug. 5, 1891	1934*	July 16, 1981
	Bhatnagar, P.L.	Aug. 8, 1912	1956	Oct. 5, 1976
69.	Bhatnagar, S.S.	Feb. 21, 1894	1934 <sup>†</sup>	Jan. 1, 1955
	Bhattacharya, D.R.	Jan. 18, 1888	1940	Aug. 26, 1956
	Bhattacharyya, J.C.	Sep. 1, 1930	1979	June 4, 2012
72.	Bhattacharyya, P.K.	Oct. 22, 1921	1976	Apr. 16, 1996
	Bhattacharyya, S.C.	Aug. 31, 1918	1975	May 19, 2013
	Bhattacherjee, S.K.	Oct. 2, 1926	1973	Apr. 28, 2013
	Bhatti, H.K.	Feb. 7, 1895	1940	Dec. 14, 1980
	Bhide, V.G.	Aug. 08, 1925	1974	June 25, 2006
77.	Bhimachar, B.S.	July 7, 1906	1951	Jan. 11, 1979
	Biswas, A.B.	Jan. 12, 1917	1974	Oct. 23, 1979
79.	Biswas, S.N.	May 1, 1926	1974	Jan. 3, 2005
80.	Biswas, Sukumar	Jul. 1, 1924	1976	Nov. 16, 2009
81.	Bor, N.L.	May 2, 1893	1942	Dec. 22, 1972

		Born	Elected	Deceased
82.	Bose, M.K.	Sep. 1, 1933	1981	Oct. 1, 2009
83.	Bose, M.N.	Mar. 23, 1925	1982	Apr. 27, 2011
84.	Brahm, Prakash	Aug. 21, 1912	1972	Jan. 3, 1984
85.	Brahmayya Sastry, P.	May 24, 1913	1978	May 28, 1993
86.	Burley, G.W.		1935	
87.	Burma, D.P.	Feb. 1, 1925	1976	Feb, 4, 2005
88.	Chakko, K.C.		1934 <sup>†</sup>	
89.	Chakravarthy, S.N.	1903	1934*	Aug. 28, 1945
90.	Chakravarti, S.P.	Nov. 3, 1904	1943	July 15, 1981
91.	Chandraratna, M.F.		1951	1959
92.	Chandrasekaran, C.	Oct. 30, 1911	1945	Jan. 4, 2000
93.	Chandrasekhar, Sivaramakrishna	Aug. 6, 1930	1962	Mar. 8, 2004
94.	Chandrasekhar, S.	Oct. 19, 1910	1934*	Aug. 21, 1995
95.	Chandrasekharan, V.	Nov. 12, 1925	1973	Sep. 5, 2003
96.	Chandrashekaran, M.K.	Jan. 4, 1937	1983	July, 2, 2009
97.	Chandy, Jacob	Jan. 23, 1910	1961	June 23, 2007
98.	Chariar, V.R.	May 1903	1949	July 31, 1996
99.	Chatterjee, Asima	Sep. 23, 1917	1975	Nov. 22, 2006
100.	Chaudhuri, H.	July 28, 1895	1934 <sup>†</sup>	Aug. 19, 1945
101.	Chauhan, B.S.	May 2, 1915	1952	Feb. 4, 2007
	Cheema, G.S.		1934*	Jan. 2, 1972
103.	Cherian, M.C.		1937	
	Chhuttani, P.N.	Feb. 26, 1915	1973	July 19, 1996
105.	' '	Jan. 8, 1911	1962	Oct. 18, 1996
106.			1945	_
107.	*	Aug. 22, 1907	1934*	Dec. 10, 1995
108.	The state of the s	1892	1935 <sup>†</sup>	Oct. 1962
109.	•	Aug. 22, 1888	1935 <sup>†</sup>	D 1057
	Damodaran, M.	Oct. 18, 1903	1934 <sup>†</sup> ,1942	
111.		Aug. 11, 1923	1966	Mar. 27, 2005
112.		Oct. 24, 1923	1974	Mar. 17, 2012
	Das, J.	Sep. 13, 1939	1988	July 26, 1998
	Das, M.R.	July 2, 1937	1985	Apr. 1, 2003
	Das, Prosad K.	May 20, 1926	1975	Jan. 14, 2011
	Das Gupta, M.K.	Sep. 1, 1923	1990	Nov. 28, 2005
117.		Nov. 4, 1902	1935 <sup>†</sup> 1934 <sup>†</sup>	Sep. 11, 1990
	Dastur, J.F.	Sep. 10, 1886		May 11, 1971
120.	Datta, Asoke Gopal Datta, Bhaskar	Jan. 20, 1928 July 1, 1949	1979 1995	Dec. 9, 2005 Dec. 3, 1999
120.	,	May 3, 1927	1995	Apr. 20, 2004
121.	* *	Feb. 9, 1923	1902	
123.			1979	Nov. 10, 1989
123.	de Mello, I.F.	May 17, 1887	1304	Jan. 9, 1955

		Born	Elected	Deceased
124.	Deodikar, G.B.	Nov. 15, 1915	1974	Mar. 13, 1986
125.	Desai, B.N.	July 3, 1901	1934 <sup>†</sup>	June 23, 1978
126.	Desai, R.D.	May 4, 1897	1939	Nov. 16, 1991
127.	Desai, S.V.	Jan 28, 1900	1935 <sup>†</sup>	1984
128.	Deshpande, D.L.	Sep. 2, 1909	1945	Apr. 5, 1961
129.	Desikachary, T.V.	Sep. 18, 1919	1957	Nov. 4, 2005
130.	Devadatta, S.C.		1936	
131.	Devaprabhakara, D.	Nov. 13, 1932	1976	Jan. 12, 1978
132.	Dhar, M.L.	Oct. 29, 1914	1975	Jan. 20, 2002
133.	Dhar, S.C.		1935 <sup>†</sup>	Oct. 30, 1947
134.	Dharmatti, S.S.	May 8, 1911	1960	May 2, 1965
135.	Dhawan, S.	Sep. 25, 1920	1970	Jan. 3, 2002
136.	Divatia, A.S.	Feb. 17, 1927	1975	Jan. 7, 1993
137.	Dixit, K.R.	Oct. 6, 1909	1939	Dec. 1977
138.	Doraiswamy, L.K.	May 13, 1927	1974	June 2, 2012
139.	Dorasami, L.S.		1947	
140.	Doss, K.S.G.	Aug. 10, 1906	1935 <sup>†</sup>	Oct. 18, 1989
141.	Dube, G.P.	May 1, 1914	1950	Jan. 17, 1973
142.	Dutt, N.L.	1900	1935 <sup>†</sup>	Feb. 6, 1960
143.	Dutt, S.	Dec. 13, 1898	1939	Dec. 17, 1992
144.	Dutta, P.C.	Mar. 11, 1912	1975	June 13, 1983
145.	Ekambaram, T.		1934*	
146.	Forbes, S.G.		1937	
147.	Foster, R.B.		1934 <sup>†</sup>	
	Ganapathi, K.	Aug. 18, 1911	1951	Oct. 15, 2004
	Ganapati, P.N.	July 15, 1910	1955	Jan. 5, 1984
	Ganatra, R.D.	Oct. 14, 1928	1975	Apr. 2, 1999
	Ganesan, A.S.	May 27, 1900	1934*	Jan. 2, 1986
	Ganguly, A.K.	Nov. 1, 1918	1977	Jan. 17, 1988
153.	0 ,	Jan. 20, 1942	1994	May 7, 2014
	Ghatage, V.M.	Oct. 24, 1908	1945	Dec. 6, 1991
	Ghatak, U.R.	Feb. 26, 1931	1976	June 18, 2005
156.	,	July 1903	1952	1995
157.		Dec. 13, 1893	1936	Mar. 24, 1945
158.		Jan. 20, 1927	1982	Sep. 29, 2003
	Ghosh, P.N.	Feb. 11, 1884	1934*	Dec. 23, 1946
	Ghosh, Subir Kumar	Mar. 1, 1932	1989	Oct. 30, 2008
161.		Feb. 10, 1907	1941	July 17, 1958
	Gnanamuthu, C.P.	Apr. 29, 1901	1952	Mar. 18, 1969
	Goel, Parmatma S.	July 6, 1930	1977	Aug. 9, 2004
	Gogate, D.V.	Jan. 23, 1903	1942	Jan. 11, 1984
165.	, , , , ,	Jan. 1, 1909	1952,1965	Sep. 8, 1992
166.	Gopala Rao, R.V.	Dec. 3, 1927	1977	Sep. 3, 2010
167.	Gopalakrishna, A.	Oct. 20, 1922	1974	Sep. 20, 2008

		Born	Elected	Deceased
168.	Govinda Rao, N.S.	Feb. 6, 1907	1952	Dec. 22, 1995
169.	Govindachari, T.R.	July 30, 1915	1951	Dec. 28, 2001
170.	Govindaswamy, M.V.	Nov. 21, 1904	1947	Apr. 7, 1961
171.	Gowariker, V.R.	Mar. 25, 1933	1985	Jan. 2, 2015
172.	Grewal, Ripdaman Singh	Dec. 3, 1922	1975	Apr. 13, 2009
173.	Guha, P.C.	Feb. 15, 1894	1936	Nov. 6, 1962
174.	Guha-Mukherjee, S.	July 13, 1938	1988	Sep. 15, 2007
175.	Gunjikar, K.R.	Mar. 8, 1894	1935 <sup>†</sup>	Feb. 11, 1990
176.	Hamied, K.A.	Oct. 31, 1898	1945	June 23, 1972
177.	Harish-Chandra	Oct. 11, 1923	1975	Oct. 16, 1983
178.	Hasan, K.H.		1934 <sup>†</sup>	
179.	Hattiangdi, G.S.	Dec. 15, 1921	1963	May 16, 2003
180.	Hill, A.R. Berkeley	Dec. 22, 1879	1934*	Aug. 16, 1944
181.	Howard, H.C.	Oct. 5, 1883	1934 <sup>†</sup>	
182.	Huzurbazar, V.S.	Sep. 15, 1919	1961	Nov. 15, 1991
183.	Ishaq, M.	Apr. 1, 1901	1941	Mar. 22, 1960
184.	lyengar, B.N.		1935 <sup>†</sup>	
185.	lyengar, K.R.K.		1934 <sup>†</sup>	July 20, 1947
186.	lyengar, K.S. Kuppuswamy	Aug. 29, 1899	1934 <sup>†</sup>	June 23, 1944
187.	lyengar, M.O. Parthasarathy	Dec. 15, 1886	1934*	Dec. 10, 1963
188.	lyengar, N.K.	July 29, 1910	1955	Nov. 29, 1970
189.	Iyengar, P.K.	June 29, 1931	1969	Dec. 21, 2011
190.	lyer, K.S. Padmanabha		1934 <sup>†</sup>	
191.	, ,	1861	1934*	Feb. 26, 1937
192.	, ,	1902	1935 <sup>†</sup>	Apr. 27, 1936
193.	*	June 6, 1927	1976	June 6, 2014
	Jadhav, G.V.	Apr. 12, 1900	1953	Mar. 10, 1980
	Janaki Ammal, E.K.	Nov. 4, 1897	1935 <sup>†</sup> ,1953	Feb. 7, 1984
	Jayaraman, N.	Feb. 12, 1911	1955	Mar. 13, 1971
	Jhala, H.I.	Jan. 13, 1919	1968	Aug. 29, 1984
	John, C.C.		1934 <sup>†</sup>	- L 00 1000
	Jones, S.	Aug. 27, 1910	1957	Feb. 26, 1999
	Joshi, Atmaram Bhairav	Nov. 17, 1916	1975	July 3, 2010
	Joshi, A.C.	Sep. 18, 1908	1936	Feb. 14, 1971
	Joshi, S.S.	Oct. 16, 1898	1934*	July 25, 1984
	Jussawalla, D.J.	Apr. 13, 1915	1975	Jan. 29, 1999
	Kadam, B.S.	Oct. 25, 1903	1945	July 24, 1985
	Kalamkar, R.J.	Aug. 28, 1903	1936	May 24, 1974
	Kalbag, S.S.	Oct. 23, 1928	1974	July 30, 2003
	Kalyanasundaram, R.	Feb. 20, 1930	1969	Apr. 11, 1980
	Kamesam, S.	Mar 2 1011	1934*,1938	1953
209. 210.	Kane, G.P.	Mar. 2, 1911	1943 1934 <sup>†</sup>	June 25, 1991 Jan. 1955
	Kanunga, M.S.	Nov. 25, 1879		
∠۱۱.	Kanungo, M.S.	Apr. 1, 1927	1975	July 26, 2011

		Born	Elected	Deceased
212.	Kapahi, V.K.	Jan. 21, 1944	1987	Mar. 16, 1999
213.	Kapoor, Lachman Das	Sep. 27, 1916	1963	Apr. 16, 2002
214.	Kappanna, A.N.	Aug. 3, 1900	1934 <sup>†</sup>	
215.	Kapur, J.N.	Sep. 7, 1923	1965	Sep. 4, 2002
216.	Kapur, R.L.	July 07, 1938	1977	Nov. 24, 2006
217.	Kapur, S.N.	Aug. 20, 1895	1934 <sup>†</sup>	Jan. 10, 1972
218.	Karandikar, K.R.	Mar. 17, 1902	1948	
219.	Kartha, G.	Jan. 26, 1927	1974	June 18, 1984
220.	Karve, D.D.	July 13, 1899	1943	July 5, 1980
221.	Kashyap, S.R.	Nov. 6, 1882	1934	Nov. 26, 1934
222.	Kedharnath, S.	Oct. 10, 1921	1984	Dec. 6, 2004
223.	Kelkar, P.K.	June 1, 1909	1974	Oct. 23, 1990
224.	Khanna, K.L.		1936	Aug. 1, 1976
	Khanolkar, V.R.	Apr. 13, 1895	1934*	Oct. 29, 1978
	Khoshoo, T.N.	Apr. 7, 1927	1961	June 11, 2002
227.	Kilpady, Sripadrao	Nov. 13, 1906	1953	Dec. 19, 2008
	King, C.A.		1934 <sup>†</sup>	May 19, 1936
	, -	Aug. 5, 1893	1941	Aug. 22, 1952
	Kishore, K.	Dec. 31, 1942	1991	Mar. 2, 1999
	Kondal Rao, N.	July 15, 1924	1975	Oct. 22, 2008
	Kosambi, D.D.	July 31, 1907	1935 <sup>™</sup>	June 29, 1966
	Koteswaram, P.	Mar. 25, 1915	1974	Jan. 11, 1997
	Kothari, D.S.	July 6, 1906	1975	Feb. 4, 1993
	Krishna, M.G.	July 18, 1922	1974	June 5, 1978
	Krishna, Sri	July 6, 1896	1934 <sup>†</sup>	Oct. 3, 1984
	Krishna Rao, G.S.	Oct. 26, 1926	1987	Dec. 16, 2008
	Krishna Rao, P.R.	July 25, 1906	1940	Nov. 7, 1985
	Krishnamachari, S.L.N.G.	Sep. 20, 1928	1975	Feb. 6, 2012
	Krishnamurthy, E.V.	June 18, 1934	1972	Oct. 26, 2012
	Krishnamurti, D.	Mar. 30, 1929	1958	May 14, 2003
	Krishnamurti, K.	Nov. 2, 1902	1934 <sup>†</sup>	Dec. 8, 1988
	Krishnamurti, P.	Jan. 22, 1903	1934*	Mar. 14, 1966
	Krishnamurthy, L.S.	Mar. 0. 1000	1937	l 00 1000
	Krishna Murti, C.R.	Mar. 3, 1923	1974	June 30, 1990
	Krishna Murty, K.	Nov. 13, 1926	1981	May 10, 2001
247.		Dec. 4, 1898	1934*	June 14, 1961
	Krishnan, K.V.	July 4, 1896	1934 <sup>†</sup> 1934*	Mar. 30, 1978
	Krishnan, M.S. Krishnan, R.S.	Aug. 24, 1898 Sep. 23, 1911	1934	Apr. 24, 1970 Oct. 2, 1999
	Krishnaswami, K.R.	Aug. 14, 1898	1944	June 28, 1964
	Krishnaswamy, S.	Feb. 15, 1926	1934	Nov. 20, 1988
	Kumar, L.S.S.	June 4, 1903	1940	Nov. 20, 1985
254.		Oct. 4, 1930	1940	Mar. 9, 1988
254. 255.	• • • • • • • • • • • • • • • • • • • •	Jan. 4, 1916	1972	Dec. 11, 1999
۷۵۵.	Nulluu, D.N.	Jan. 4, 1910	1975	DCC. 11, 1999

		Born	Elected	Deceased
256.	Kuriyan, K.I.	Oct. 4, 1903	1943	Aug. 16, 1972
257.	Kutumbiah, P.	Nov. 22, 1892	1941	1976
258.	Laddha, G.S.	Aug. 26, 1922	1974	Sep. 30, 2010
259.	Lakhanpal, R.N.	Aug. 5, 1923	1976	Jan. 19, 2012
260.	Lal, B.B.	Aug. 4, 1913	1948	June 2, 2000
261.	Lal, Devendra	Feb. 14, 1929	1965	Dec. 1, 2012
262.	Lal, M.B.	Jan. 31, 1907	1942	Dec. 5, 2002
263.	Lal, R.K.	Oct. 14, 1936	1986	Oct. 19, 2014
264.	Lal, Shankar	June 25, 1923	1974	Sep. 25, 1991
265.	Lala, Anil Kumar	Jan. 13, 1950	1993	July 18, 2004
266.	Lele, S.H.		1936	
267.	Likhite, V.N.	1896	1936	Apr. 1, 1990
268.	Luthar, I.S.	Mar. 31, 1932	1977	Dec. 7, 2006
269.	Madhava, K.B.	Mar. 13, 1895	1934 <sup>†</sup>	Apr. 26, 1984
270.	Madhavarao, B.S.	May 29, 1900	1936	June 10, 1987
271.	Mahabale, T.S.	Oct. 19, 1909	1951	July 3, 1983
272.	Mahadevan, C.	May 6, 1901	1934*	Apr. 8, 1962
273.	Mahadevan, P.R.	May 20, 1928	1973	Apr. 27, 2003
274.	Mahajani, G.S.	Nov. 27, 1898	1935 <sup>†</sup>	July 26, 1984
275.	Mahalanobis, P.C.	June 29, 1893	1935 <sup>†</sup>	June 28, 1972
276.	Mahendra, B.C.	1903	1938	1995
277.	Maheshwari, P.	Nov. 9, 1904	1934 <sup>†</sup>	May 18, 1966
278.	Maitra, P.K.	Nov. 1, 1932	1975	Sep. 4, 2007
279.	Maiya, B.G.	June 20, 1956	2001	Mar. 22, 2004
280.	•	Aug. 11, 1938	1976	June 20, 2000
281.	Majumdar, G.P.	Feb. 18, 1894	1944	Nov. 21, 1959
282.	Malhotra, D.R.	Oct. 4, 1899	1952	Nov. 1, 1983
283.	Malhotra, P.K.	Apr. 20, 1935	1985	Mar. 7, 1992
284.	Malhotra, S.L.	Dec. 5, 1919	1966	Sep. 10, 2004
285.	Malurkar, S.L.	Aug. 15, 1903	1934 <sup>†</sup>	Apr. 26, 1984
286.	Mani, Anna	Aug. 23, 1918	1960	Aug. 16, 2001
287.	Mani, K.S.	Oct. 18, 1928	1974	Mar. 28, 2001
288.	Manna, G.K.	Oct. 10, 1926	1978	Dec. 25, 2006
289.	Mata Prasad	Feb. 15, 1898	1934 <sup>™</sup>	Jan. 28, 1979
290.	Mathai, G.	Nov. 13, 1887	1934 <sup>†</sup>	June 25, 1947
291.	,	May 27, 1928	1975	Jan. 12, 1980
292.	Mathur, K.K.	July 30, 1893	1934 <sup>†</sup>	July 18, 1936
293.	Mehrotra, R.C.	Feb. 16, 1922	1974	July 11, 2004
294.	Mehta, K.C.	June 20, 1892	1935†	Apr. 8, 1950
295.	Mehta, M.K.	July 24, 1927	1975	June 28, 2010
296.	, -	May 4, 1902	1952	Mar. 29, 1970
297.	,	Aug. 15, 1946	1993	June 4, 2014
298.	Menon, K.K.G.	Sep. 19, 1927	1975	Apr. 6, 2002
299.	Menon, K.N.		1940	1969

		Born	Elected	Deceased
300.	Menon, P.K.	Sep. 4, 1917	1975	Oct. 22, 1979
301.	Menon, T. Bhaskara		1941	
302.	Menon, T. Radhakrishnan	Apr. 14, 1925	1963	May 29, 2001
303.	Menon, V.K. Narayana		1941	
304.	Merchant, J.R.	June 14, 1922	1964	Feb. 8, 2004
305.	Metcalfe, E.P.	1881	1934*	1950
306.	Mirza, N.B.		1935 <sup>†</sup>	
307.	Mishra, R.S.	Aug. 10, 1918	1966	Aug. 23, 1999
308.	Mitra, Ashesh Prosad	Feb. 21, 1927	1974	Sep. 3, 2007
309.	Mitra, Sujit Kumar	Jan. 23, 1932	1990	Mar. 18, 2004
310.	Moghe, M.A.	Apr. 21, 1896	1934 <sup>†</sup>	May 12, 1966
311.	Mookherjee, A.	May 23, 1931	1990	Feb. 16, 2006
312.	Moudgal, N.R.	Mar. 04, 1931	1975	May 8, 2011
313.	Moudgill, K.L.		1934 <sup>†</sup>	
314.	Mukherjee, A.S.	Oct. 1, 1935	1988	Nov. 15, 2004
315.	Murthy, G.V.L.N.	Mar. 10, 1912	1944	1943
316.	Murti, P.B.R.	Nov. 11, 1911	1945	Dec. 1990
317.	Murty, B.R.	Apr. 4, 1928	1975	May 16, 2003
318.	Murty, Y.S.	May 15, 1925	1979	Feb. 21, 1988
319.	Muthuswami, T.N.	June 20, 1898	1943	Dec. 10, 1980
320.	Nabar, G.M.	July 2, 1904	1949	July 20, 1986
321.	Nag, Biswajit	Aug. 20, 1933	1974	Feb. 6, 2000
322.	Nag, Biswaranjan	Oct. 1, 1932	1984	Apr. 6, 2004
323.	Nag, Subhashis	Aug. 14, 1955	1995	Dec. 22, 1998
324.	Nag, B.D. Chaudhuri	Sep. 6, 1917	1974	June 25, 2006
325.	Nagappa, Y.	Oct. 2, 1907	1951	Oct. 30, 1960
326.	Nagaraju, J.	Nov. 6, 1954	2003	Dec. 31, 2012
327.	Nagendra Nath, N.S.	May 10, 1912	1935 <sup>†</sup>	Sep. 2, 1979
328.	Naha, K.	Jan. 2, 1932	1983	May 24, 1996
	Nair, Kappiareth Gopal	July 2, 1931	1981	Mar. 12, 2010
	Nair, Narayana Balakrishnan	July 6, 1927	1977	Apr. 21, 2010
	Nair, U. Sivaraman	Jan. 22, 1904	1944	Aug. 8, 1982
332.	Nanda, K.K.	Jan. 1, 1918	1975	Dec. 13, 1983
	Narasimham, N.A.	Aug. 15, 1922	1966	Apr. 8, 2002
334.	Narasimhan, M.J.	July 1, 1891	1935†	Sep. 24, 1970
	Narasimhan, P.T.	July 28, 1928	1971	May 3, 2013
	Narasimhan, Rangaswamy	Apr. 17, 1926	1966	Sep. 2, 2007
	Narayan, A.L.	1887	1934*	Mar. 7, 1973
	Narayana, N.	June 27, 1902	1935 <sup>†</sup>	Mar. 16, 1976
339.	Narayanamurti, D.	Sep. 11, 1904	1939	Mar. 9, 1975
	Narayanan, C.R.	Dec. 17, 1916	1977	Jan. 15, 1993
	Narayanan, E.S.	Feb. 15, 1904	1953	Feb. 23, 1991
342.	Narayanan, P.S.	Jan. 1, 1926	1974	Oct. 23, 1994
343.	Narayanaswamy, S.	Sep. 2, 1916	1974	May 13, 1997

		Born	Elected	Deceased
344.	Narendran, T.C.	Feb. 24, 1944	2000	Dec. 31, 2013
345.	Narlikar, V.V.	Sep. 26, 1908	1935 <sup>†</sup>	Apr. 1, 1991
346.	Nasipuri, Dhanonjoy	Apr. 1, 1925	1976	Dec. 28, 2009
347.	Natarajan, C.V.	Apr. 26, 1899	1934*	Nov. 11, 1964
348.	Natarajan, R.	July 9, 1930	1981	Dec. 2, 2003
349.	Nayar, B.K.	Sep. 19, 1927	1975	May 12, 2012
350.	Nayar, K.K.	June 12, 1920	1975	June 26, 1975
351.	Nayudamma, Y.	Sep. 10, 1922	1963	June 23, 1985
352.	Nazir, Ahmed	May 1, 1898	1934 <sup>†</sup>	Aug. 12, 1973
353.	Neelakantam, K.	Dec. 18, 1911	1940	Aug. 28, 1985
354.	Newcomb, C.	1882	1935 <sup>†</sup>	
355.	Nigam, Swami Dayal	May 7, 1924	1975	May 3, 2009
356.	,	Apr. 19, 1910	1953	Apr. 18, 1964
357.		Jan. 21, 1930	1974	Apr. 18, 1994
358.	,		1934*	
359.	Padayatty, J.D.	July 10, 1928	1986	Aug. 26, 2014
360.	,	Sep. 11, 1916	1970	Jan. 29, 1985
361.	,	Sep. 24, 1925	1986	Dec. 21, 2004
362.	/	May 26, 1906	1941,1975	Sep. 14, 1989
363.		Nov. 20, 1894	1934 <sup>†</sup>	Apr. 3, 1967
364.	1 -	Mar. 24, 1912	1974	Sep. 13, 1981
365.	,	Feb. 9, 1934	1959	May 28, 1969
366.	•	Feb. 16, 1928	1974	May 20, 1999
	Pandit, L.K.	June 28, 1932	1976	May 23, 2006
368.	·	1893	1934 <sup>†</sup>	Dec. 23, 1977
369.	,, -	Aug. 24, 1886	1934 <sup>†</sup>	Oct. 14, 1958
370.	Panikkar, N.K. Panse, V.G.	May 17, 1913	1945 1947	June 24, 1977
	Pant, Devi Datt	Jan. 11, 1906 Aug. 14, 1919	1947	July 22, 1969 June 11, 2008
	Pant, Divya Darshan	Oct. 18, 1919	1968	May 9, 2001
	Paramasivan, S.	1903	1939	May 15, 1987
	Parameswaran, H.	Feb. 15, 1897	1934*	Mar. 25, 1953
	Paranipe, G.R.	Jan. 30, 1891	1934 <sup>†</sup>	Mar. 7, 1981
377.	*1	Apr. 1, 1891	1935 <sup>†</sup>	June 2, 1978
378.	• •	May 12, 1917	1975	Dec. 3, 2000
379.		Mar. 17, 1920	1975	Dec. 15, 1987
380.	·	Aug. 2, 1908	1956	May 11, 2003
381.	·	Dec. 11, 1905	1934 <sup>†</sup>	Apr. 20, 1992
382.		Nov. 6, 1899	1948	,
383.		Mar. 12, 1945	1975	Dec. 21, 1976
384.		Oct. 20, 1919	1974	Feb. 16, 2002
385.	Peacock, D.H.	Dec. 1889	1934 <sup>†</sup>	
386.	Peters, B.	Dec. 22, 1910	1954	Feb. 2, 1993
387.	Pichamuthu, C.S.	Mar. 10, 1900	1941	Aug. 18, 1990

		Born	Elected	Deceased
388.	Pisharoty, P.R.	Feb. 10, 1909	1957	Sep. 24, 2002
389.	Pradhan, S.K.	Sep. 6, 1929	1986	May 23, 2002
390.	Prasad, M.R.N.	May 1, 1923	1975	Oct. 7, 1987
391.	Prasad, R. Raghu	Dec. 17, 1920	1958	July 20, 1994
392.	Puntambekar, S.V.	July 17, 1898	1948	May 6, 1969
393.	Puri, G.S.	Aug. 18, 1915	1960	Apr. 18, 1995
394.	Puri, V.	Dec. 10, 1909	1945	Oct. 9, 2002
395.	Racine, C.J.	July 22, 1897	1975	July 8, 1976
396.	Radhakrishna, B.P.	Apr. 30, 1918	1956	Jan. 26, 2012
397.	Radhakrishnan, A.N.	May 17, 1927	1974	June 17, 1990
398.	Radhakrishnan, V.	May 18, 1929	1968	Mar. 3, 2011
399.	Raghavan, S.	Apr. 11, 1934	1975	Oct. 7, 2014
400.	Raghavan, T.S.	Sep. 29, 1905	1939	Jan. 30, 1986
401.	Raj, Mahindra	Feb. 15, 1925	1974	Feb. 16, 1995
402.	Rajagopal, C.T.	Sep. 8, 1903	1975	Apr. 25, 1978
403.	Rajasekarasetty, M.R.	Oct. 16, 1919	1975	July 3, 1982
404.	Ram, Behari	Apr. 25, 1897	1940	Dec. 14, 1981
405.	Rama Das, V.S.	Feb. 5, 1933	1975	Dec. 9, 2010
406.	Rama Rao, L.	Mar. 23, 1896	1934*	Nov. 11, 1974
407.	Rama Swamy, S.	Sep. 23, 1907	1935 <sup>†</sup>	Mar. 30, 1984
408.	Ramachandra, K.	Aug. 18, 1933	1975	Jan. 17, 2011
409.	Ramachandra Rao, B.	Nov. 21, 1922	1974	Sep. 24, 2005
410.		Dec. 14, 1916	1974	Sep. 22, 1991
411.	Ramachandran, G.N.	Oct. 8, 1922	1950	Apr. 7, 2001
412.	,	Mar. 28, 1928	1974	Aug. 11, 1988
413.		Oct. 17, 1921	1975	Feb. 12, 2011
	Ramakrishnan, Alladi	Aug. 9, 1923	1955	June 8, 2008
	Ramakrishnan, K.	Nov. 22, 1920	1970	Mar. 26, 1978
	Ramakrishnan, T.	Mar. 14, 1922	1974	Feb. 15, 2008
	Ramakrishnan, T.S.	Aug. 25, 1899	1949	Dec. 2, 1971
418.	J ,	Aug. 8, 1921	1974	May 28, 2001
	Ramamurthi, B.	Jan. 30, 1922	1972	Dec. 13, 2003
	Raman, C.V.	Nov. 7, 1888	1934*	Nov. 21, 1970
421.	· · · · · · · · · · · · · · · · · · ·	Aug. 29, 1946	1991	Mar. 12, 1993
422.	, , , , , , , , , , , , , , , , , , ,	Mar. 1, 1923	1956	Aug. 20, 2003
423.	Ramanathan, Kalpathy R.	Feb. 28, 1893	1934*	Dec. 31, 1984
424.	Ramanathan, Kollagunta G.	Nov. 13, 1920	1974	May 10, 1992
425.		July 17, 1926	1975	Mar. 8, 2007
426.	Ramanna, Raja	Jan. 28, 1925	1966	Sep. 24, 2004
427.		Jan. 9, 1938	1974	Oct. 27, 1974
428. 429.	Ramanujam, S.	Oct. 2, 1903	1941 1934*	June 9, 1979
429.	Ramanujan, S.G.M.	Aug. 26, 1893		May 1982
430.	Ramaseshan, S.	Oct. 10, 1923	1955 1939	Dec. 29, 2003
431.	Ramaswamy, C.	Aug. 20, 1907	1909	Aug. 17, 1991

		Born	Elected	Deceased
432.	Ramaswamy, E.K.	Feb. 12, 1894	1939	Apr. 22, 1979
433.	Ramaswamy, G.S.	Oct. 3, 1923	1974	Mar. 9, 2002
434.	Ramaswamy, K.L.		1944	
435.	Ramaswamy, M.N.	Nov. 26, 1905	1936	Jan. 27, 1966
436.	Ramaswamy, V.		1944	
437.	Ramdas, L.A.	June 3, 1900	1934*	Jan. 1, 1979
438.	Ramiah, K.	Apr. 15, 1882	1934*	Aug. 2, 1988
439.	Ramiah, P.V.		1935 <sup>†</sup>	
440.	Rana, K.N.J.B.		1943	
441.	Randhawa, M.S.	Feb. 2, 1909	1937	Mar. 3, 1986
442.	Ranganathan, Darshan	June 4, 1941	1991	June 4, 2001
443.	3 , -		1935 <sup>†</sup>	
	Rangarajan, S.K.	Sep. 09, 1932	1974	Apr. 29, 2008
	Rangaswami, G.	May 10, 1925	1960	Sep. 7, 2005
	Rangaswami, S.	June 15, 1912	1943	Nov. 24, 2000
	Rao, A. Nagaraja	Nov. 15, 1906	1935 <sup>†</sup>	
448.	,	Dec. 12, 1893	1934 <sup>†</sup>	July 2, 1967
	Rao, A. Sambasiva	Sep. 20, 1914	1974	Oct. 31, 2003
	Rao, B. Rama	Nov. 20, 1891	1935 <sup>†</sup>	Feb. 15, 1970
	Rao, B.K. Narayana		1934*	
	Rao, B.N. Balakrishna	Jan. 21, 1910	1945	Mar. 7, 1995
	Rao, Basrur Sanjiva	Feb. 23, 1895	1934*	Mar. 3, 1975
	Rao, Bijoor Sanjiva	Feb. 23, 1896	1936	l 0 4000
	Rao, C.R. Narayana	Aug. 15, 1882	1934*	Jan. 2, 1960
	Rao, C.V. Hanumantha	Oct. 29, 1892	1934 <sup>†</sup>	Sep. 2, 1947
	Rao, D.M.	July 4, 1932	1974 1934 <sup>†</sup>	Dec. 29, 2010
	Rao, H. Srinivasa Rao, K. Ananda	July 16, 1894 Sep. 21, 1893	1934 1934 <sup>†</sup>	July 14, 1971
	Rao, K. Nagabhushana	Sep. 21, 1893 Sep. 13, 1913	1961	Jan. 22, 1966 Jan. 1, 1991
	Rao, K. Pampapathi	Mar. 9, 1930	1971	June 23, 1973
	, , ,	1898	1971 1935 <sup>†</sup> ,1957	1970
	Rao, K. Raghavendra	May 7, 1936	1986	Dec. 2, 2008
	Rao, K.A. Narain	Way 7, 1000	1936	D00. 2, 2000
	Rao, L. Narayana		1944	1973
	Rao, M.A. Narayana		1939	1070
467.	•	Aug. 5, 1906	1957	Sep. 4, 1992
	Rao, M.R. Aswathanarayana	Nov. 7, 1910	1956	May 24. 1992
	Rao, M.R. Raghavendra	May 25, 1924	1978	June 9, 1992
	Rao, M.V. Radhakrishna	Nov. 1, 1903	1950	Oct. 26, 1971
	Rao, N.V. Subba	Nov. 8, 1916	1958	1976
472.	Rao, P. Krishna	June 15, 1899	1939	May 20, 1978
473.	Rao, P. Ramachandra	Mar. 20, 1942	1985	Jan. 10, 2010
474.	Rao, P. Suryaprakasa	Sep. 1, 1914	1943	Jan. 9, 2002
475.	Rao, S. Raghavender		1952	1954

		Born	Elected	Deceased
476.	Rao, S. Ramachandra	May 15, 1899	1934*	Feb. 28, 1983
477.	Rao, S. Subba	June 18, 1883	1934*	Jan. 2, 1955
478.	Rao, S.N. Gundu	Nov. 26, 1909	1955	Sep. 7, 1985
479.	Rao, S.S. Moorthy	1899	1940	1983
480.	Rao, V. Prabhaker	Aug. 22, 1910	1959	Dec. 19, 1983
481.	Rao, V.S.R.	Feb. 1, 1931	1974	Sep. 26, 2013
482.	Rao, Y. Ramachandra	Sep. 11, 1885	1935 <sup>†</sup>	June 1, 1972
483.	Rau, A. Subba	Feb. 1890	1936	
484.	Rau, M.A. Govinda	Aug. 26, 1901	1934*	Nov. 19, 1954
485.	Raychaudhuri, Amal Kumar	Nov. 1, 1923	1982	June 18, 2005
486.	Raymont, J.E.G.	Apr. 6, 1915	1967	Aug. 30, 1979
487.	Reddy, A.K.N.	Oct. 21, 1930	1974	May 7, 2006
488.	* *	Jan. 16, 1929	1980	Dec. 12, 2012
489.	,	Apr. 17, 1917	1960	Oct. 24, 2012
	Rode, K.P.	Nov. 8, 1903	1944	Dec. 2, 1985
	Rodrigues, Veronica F	Mar. 31, 1953	1995	Nov. 10, 2010
	Rodriguez, Placid	Oct. 5, 1940	1993	Aug. 31, 2008
	Row, R.	Nov. 16, 1871	1934*	Nov. 14, 1953
	Roy, P.R.	July 21, 1936	1983	Apr. 21, 1991
	Roy, S.C.	Mar. 1, 1899	1936	Dec. 9, 1970
496.	,	Jan. 1, 1895	1934 <sup>†</sup>	July 16, 1959
	Roy, Supriya	June 1, 1931	1986	Aug. 22, 2013
	Royds, T.	Apr. 11, 1884	1934 <sup>†</sup> 1934*	May 1, 1955
	Rudra, J.J.		1934 1935 <sup>†</sup>	1958
	Sabnis, T.S. Sachdev, P.L.	Jan. 6, 1937	1984	Feb. 14, 2009
	Sadasivan, T.S.	May 22, 1913	1964	Aug. 18, 2001
	Sadhale, P.P.	June 16, 1960	2009	Jan. 20, 2012
	Saha, A.K.	May 25, 1925	1975	Apr. 27, 1997
	Sahasrabuddhe, D.L.	Sep. 1, 1880	1934 <sup>†</sup>	1953
	Sahni, J.C.	оор. т, тооо	1938	1954
	Sahni, Birbal	Nov. 14, 1891	1934 <sup>†</sup>	Apr. 10, 1949
	Sahni, M.R.	Mar. 1, 1899	1934 <sup>†</sup>	Jan. 13, 1983
	Sahni, R.R.	Apr. 5, 1863	1934 <sup>†</sup>	1948
	Salaskar, V.H.	Apr. 6, 1912	1974	Sep. 8, 1997
511.	Saldanha, C.J.	Dec. 27, 1926	1980	Apr. 7, 2002
512.	Sampathkumaran, M.A.	July 15, 1882	1934*	Dec. 15, 1944
513.	Samuel, G.	May 26, 1898	1942	1975
514.	Samuel, R.		1934*	
515.	Sankaran, C.		1940	
516.	Sarabhai, Anand	Apr. 3, 1938	1981	Feb. 2, 2013
517.	Sarabhai, Vikram A.	Aug. 12, 1919	1945	Dec. 31, 1971
518.		Apr. 22, 1920	1978	Sep. 10, 2004
519.	Sarma, I.G.	Sep. 21, 1936	1974	Sep. 10, 1996

		Born	Elected	Deceased
520.	Sarma, N.V.G.	Sep. 16, 1932	1989	Dec. 5, 2008
521.	Sarma, P.S.	Oct. 29, 1917	1952	Sep. 8, 1970
522.	Sastri, B.N.		1934*	
523.	Sastry, S.G.	Nov. 1899	1934*	Sep. 22, 1955
524.	Satya Murthy, N.S.	Feb. 5, 1936	1975	Oct. 8, 1984
525.	Satya Nand, D.	Nov. 1, 1906	1964	Jan. 28, 1978
526.	Satya Prakash	Aug. 24, 1905	1939	Jan. 18, 1995
	Savoor, Sadashiva R.	May 8, 1901	1954	1981
528.	Savur, Srinivasa R.	Mar. 26, 1894	1934*	May 4, 1974
	Sawhney, K.	June 4, 1896	1935 <sup>†</sup>	1958
	Sen, P.K.	Dec. 7, 1915	1958	July 22, 1982
531.		Apr. 1, 1929	1984	July 29, 2002
	Seshachar, B.R.	Jan. 9, 1908	1953	Jan. 25, 1994
	Seshadri, S.N.	Mar. 15, 1937	1978	Feb. 2, 1986
	Seshadri, T.N.	June 15, 1905	1954	Nov. 1, 1975
	Seshadri, T.R.	Feb. 3, 1900	1934*	Sep. 27, 1975
536.	5 ,	May 10, 1940	1974	May 26, 2013
	Seshaiya, R.V.	Feb. 8, 1898	1948	Feb. 28, 1973
538.	,	Aug. 27, 1907	1936	Dec. 12, 1979
	Seth, J.B.	1893	1935 <sup>†</sup>	Feb. 1964
	Sethi, N.K.	July 8, 1893	1935 <sup>†</sup>	Nov. 8, 1969
541.	•	Nov. 28, 1927	1989	Jan. 6, 2008
	Sethna, H.N.	Aug. 24, 1923	1968	Sep. 5, 2010
	Shabde, N.G.	Apr. 12, 1906	1942 1934 <sup>†</sup>	1961
545.	Shah, M.S. Shah, N.M.		1934 1934 <sup>†</sup>	
546.	,	Oct. 7, 1899	1934 <sup>†</sup>	Sep. 3, 1969
	Shah, S.M.	Dec. 30, 1905	1951	Apr. 21, 1996
	Shankar, Jagdish	Oct. 3, 1912	1975	Jan. 31, 1992
	Sharma, Archana	Feb. 16, 1932	1977	Jan. 14, 2008
	Sharma, N.L.	Nov. 12, 1901	1937	Jan. 14, 1988
551.	•	June 1, 1904	1942	Jan. 2, 1995
552.	·	Apr. 12, 1889	1934*	June 26, 1950
553.		Aug. 5, 1933	1988	Mar. 13, 1994
554.		Oct. 29, 1912	1965	Jan. 25, 1990
555.		Aug. 16, 1899	1935 <sup>†</sup>	July 8, 1969
556.		<b>3</b> ,	1935 <sup>†</sup>	, ,
557.	Siddiqi, M.R.	Jan. 2, 1908	1934*	Jan. 2, 1998
558.	Siddiqi, O.	Jan. 7, 1932	1968	July 26, 2013
559.	Siddiqi, S.	Oct. 19, 1897	1935 <sup>†</sup>	Apr. 14, 1994
560.	Singh, B.K.	Apr. 17, 1886	1934*	June 15, 1960
561.	Singh, B.N.	Sep. 22, 1898	1934 <sup>†</sup>	June 7, 1984
562.	Singh, Inderjit	Aug. 20, 1909	1944	June 5, 1972
563.	Singh, Udai Narain	Jan. 1, 1931	1975	Dec. 31, 2006

		Born	Elected	Deceased
564.	Sinha, S.K.	July 18, 1934	1983	Mar. 17, 2002
565.	Sirsat, S.M.	Oct. 7, 1925	1975	July 10, 2010
566.	Sivan, M.R.R.		1934 <sup>†</sup>	
567.	SivaRaman, C.	Dec. 2, 1923	1977	June 25, 2014
568.	Sokhey, S.S.	Dec. 15, 1887	1934 <sup>†</sup>	Oct. 23, 1971
569.	Sreenivasaiah, B.N.	July 24, 1904	1939	Feb. 16, 1987
570.	Sreenivasan, A.	July 13, 1909	1950	July 20, 1996
571.	Sreenivasan, K.	July 10, 1899	1944	Aug. 17, 1992
572.	Sreenivasaya, M.	Dec. 5, 1895	1934*	Jan. 16, 1969
573.	Sri Niwas	July 4, 1946	1995	Nov. 15, 2012
574.	Srikantiah, C.		1936	
575.	Srikrishna, A.	Jan. 1, 1955	1994	Jan. 20, 2013
576.	Srinath, L.S.	Mar. 15, 1927	1974	Sep. 13, 2012
577.	Srinivasaiengar, C.N.	Feb. 21, 1901	1939	Sep. 21, 1972
578.	Srinivasan, Ramachandran	July 5, 1933	1968	Sep. 19, 2004
579.	Srinivasan, Ramanujam	Apr. 21, 1938	1979	Sep. 10, 1984
580.	Srinivasan, S.K.	Dec. 16, 1930	1977	Oct. 25, 2006
581.	Srinivasan, V.		1934 <sup>†</sup>	July 29, 1976
582.	Sriramachari, S S	June 25, 1925	1967	Dec. 25, 2009
583.	Subbaramiah, K.		1939	1944
584.	Subbaraya, T.S.	Oct. 10, 1905	1935 <sup>†</sup>	Apr. 10, 1975
585.	Subramaniam, A.P.	Mar. 7, 1921	1961	Apr. 22, 1973
	Subramaniam, M.K.	Apr. 20, 1909	1951	1974
	Subramanian, T.S.	Sep. 24, 1911	1948	Sep. 19, 1987
	Subramanyam, K.	Nov. 1, 1915	1959	Apr. 17, 1980
	Subrahmanyan, R.	1919	1956	Mar. 5, 2006
	Subrahmanyan, V.	Sep. 16, 1902	1934*	Jan. 30, 1979
	Sukhatme, P.V.	July 27, 1911	1939	Jan. 28, 1997
	Sundara Raj, B.	1888	1956	Jan. 22, 1974
	Sundaram, A.K.	May 10, 1925	1965	Jan. 27, 1994
	Sundaram, C.V.	Nov. 7, 1929	1974	Aug. 15, 2008
	Sundaram, K.	Nov. 12, 1926	1974	May 20, 2008
	Surange, K.R.	Feb. 7, 1920	1975	Jan. 6, 2010
	Surjit Singh	June 12, 1940	1986	Sep. 6, 1997
	Suryanarayanan, S.	Jan. 23, 1927	1971	Jan. 27, 1994
	Tamhankar, R.V.	July 28, 1917	1975	June 16, 1993
	Tandon, R.N.	Nov. 27, 1903	1958	Dec. 18, 1999
	Tawde, N.R.	Jan. 15, 1898	1934 <sup>†</sup>	Dec. 25, 1984
	Taylor, E.M.	1889	1934 <sup>†</sup>	May 27, 1006
	Taylor, H.J.	May 18, 1906	1937	May 27, 1996
	Telang, A.V.	Dog 3 1004	1934*	1965
	Thacker, M.S.	Dec. 3, 1904	1949	July 6, 1979
606.	Thakur, R.S.	Nov. 15, 1902	1939 1934 <sup>†</sup>	Nov. 1984
007.	Thapar, G.S.	Nov. 15, 1893	1904	1107. 1904

		Born	Elected	Deceased
608.	Thind, K.S.	Oct. 30, 1917	1960	Dec. 3, 1991
609.	Thomas, Joseph	Mar. 20, 1935	1975	Jan. 30, 2008
610.	Thosar, B.V.	Apr. 3, 1913	1959	July 4, 1998
611.	Tilak, B.D.	Sep. 28, 1918	1952	May 25, 1999
612.	Tirumurti, T.S.	Nov. 18, 1885	1934*	Aug. 26, 1953
613.	Trehan, S.K.	Apr. 4, 1931	1978	Sep. 9, 2004
614.	Udgaonkar, B.M.	Sep. 14, 1927	1969	Dec. 21, 2014
615.	Uppal, B.N.	June 28, 1900	1940	Nov. 22, 1989
616.	Vaidhianathan, V.I.	Aug. 28, 1897	1934*	1965
617.	Vaidya, P.C.	Mar. 23, 1918	1975	Mar. 12, 2010
618.	Vaidyanathan, C.S.	Nov. 14, 1931	1978	Sep. 1, 1999
619.	Vaidyanathan, M.		1935 <sup>†</sup>	
620.	Vaidyanathaswamy, R.	Oct. 9, 1894	1934*	Mar. 17, 1960
621.	Vakil, Kapilram	May 28, 1884	1934 <sup>†</sup>	Jan. 28, 1946
622.	Vakil, R.J.	July 17, 1911	1943	Nov. 20, 1974
623.	Vardya, M.S.	Feb 22, 1933	1972	Jan. 20, 2013
624.	Varghese, T.G.	Aug. 19, 1928	1974	Nov. 14, 1977
625.	Varma, R.K.	Mar. 31, 1935	1977	May 14, 2014
626.	Varma, R.S.	Feb. 1, 1905	1947	Mar. 31, 1970
627.	,		1934*	
628.	Varadachari, V.V.R.	July 1, 1925	1974	Aug. 4, 2007
629.	Varadarajan, M.G.	Nov. 9, 1917	1974	Oct. 5, 2004
630.	Venkataraman, B.	Dec. 17, 1929	1975	Oct. 28, 2010
631.	*	Feb. 1, 1930	1974	Oct. 3, 1998
	Venkataraman, K.	June 7, 1901	1934 <sup>†</sup>	May 12, 1981
633.	Venkataraman, M.	Dec. 31, 1923	1975	Nov. 18, 1990
634.	Venkataraman, T.S.	June 15, 1884	1934 <sup>†</sup>	Jan. 18, 1963
635.	Venkataraman, T.V.	1910	1957	Nov. 30, 1981
636.	Venkatarayudu, T.	Oct. 10, 1910	1940	Nov. 29, 1979
638.	Venkatasubramanian, V.S. Venkatesachar, B.	June 20, 1930	1978 1934*	July 22, 1984
639.	,	June 18, 1879 1904	1934	May 27, 1972 1978
640.	Venkateswaran, R.	1904	1944 1935 <sup>†</sup>	1970
641.	Venkateswaran, S.		1933 1934 <sup>†</sup>	Mar. 12, 1971
642.	•	Mar. 21, 1912	1953	May 20, 1978
643.	,	June 3, 1916	1958	July 2, 2005
644.		Oct. 25, 1921	1957	Aug. 8, 1997
645.	Venkiteshwaran, S.P.	Feb. 15, 1905	1939	Sep. 26, 1985
	Venkoba Rao, A.	Aug. 20, 1927	1984	Oct. 25, 2005
	Verma, Ajit Ram	Sep. 20, 1921	1974	Mar. 4, 2009
648.	• •	Aug. 1875	1934*,1943	1953
649.	Vijayaraghavan, T.	Nov. 30, 1902	1934*	Apr. 20, 1955
650.	Visvesvaraya, M.	Sep. 15, 1861	1934*	Apr. 14, 1962
	Viswa Nath, B.	Jan. 1, 1889	1934*	Feb. 1, 1964
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	Born	Elected	Deceased
652. Viswamitra, M.A.	Nov. 14, 1932	1979	Apr. 10, 2001
653. Viswanathan, D.K.	Mar. 1, 1901	1951	Mar. 27, 1960
654. Viswanathan, K.S.	June 9, 1929	1956	July 5, 2009
655. Wadia, D.N.	Oct. 23, 1883	1935 <sup>†</sup>	June 15, 1969
656. Wheeler, T.S.	Apr. 30, 1899	1934*	Dec. 13, 1962
657. Wolf, Ludwig		1934 <sup>†</sup>	
658. Yadava, S.L.	July 5, 1953	1999	June 7, 2007

# **PAST FELLOW**

Bhargava, P.M. (1976)

# **HONORARY FELLOWS DECEASED SINCE 1934**

(Year of election in brackets)

1.	Alfven, H.O.G. (1972)	43.	Dodson, G. G. (2003)
2.	Anderson, B.W. (1964)	44.	Domagk, Gerhard (1965)
3.	Anderson, J.S. (1978)	45.	Donnan, F.G. (1938)
4.	Bawden, F.C. (1972)	46.	Eccles, John (1968)
5.	Belfanti, S. (1935)	47.	Einstein, Albert (1936)
6.	Benzer, S. (1988)	48.	Engstrom, Arne (1970)
7.	Bjerknes, Jacob (1959)	49.	Euler-Chelpin, H. von (1952)
	Bjerknes, V. (1947)	50.	Fermi, Enrico (1935)
	Blackett, P.M.S. (1949)	51.	Fisher, Hans (1935)
10.	Blumberg, B.S. (1987)	52.	Forssmann, Werner (1967)
11.	Bohr, Niels (1935)	53.	Frank, Charles (1984)
	Bolton, J.G. (1973)		Frey-Wyssling, A. (1960)
13.	Bondi, Hermann (1997)	55.	Garrett, S.D. (1973)
14.	Bonino, G.B. (1958)	56.	Ginzburg, V. Lasazevich (1977)
15.	Born, Max (1937)	57.	Granit, R.A. (1964)
	Bose, S.N. (1973)	58.	Hadamard, Jacaques (1939)
17.	Bovet, Daniel (1967)	59.	Haddon, A.C. (1936)
18.	Bowen, Ira S. (1956)	60.	Hahn, Otto (1958)
19.	Bowen, N.L. (1935)	61.	Halle, T.G. (1947)
20.	Bragg, William H. (1935)		Hardy, G.H. (1935)
21.	Bridgman, P.W. (1952)	63.	Haworth, W.N. (1948)
22.	Brillouin, Leon (1939)	64.	Heisenberg, Werner (1935)
23.	Broglie, L. de (1951)	65.	Herzberg, Gerhard (1955)
24.	Brown, R. Hanbury (1975)	66.	Hess, W.R. (1966)
25.	Brumpt, Emile (1936)		Hevesy, G. (1951)
26.	Bünning, E. (1986)		Heymaans, C. (1966)
27.	Cabannes, Jean (1949)		Heyrovsky, Jaroslav (1959)
28.	Caspersson, T.O. (1963)	70.	Hill, A.V. (1935)
	Chapman, S. (1947)	71.	Hodgkin, Alan (1975)
30.	Charney, J.G. (1980)	72.	Hodgkin, Dorothy (1972)
31.	Cockcroft, John (1962)	73.	Hopkins, F. Gowland (1935)
32.	Compton, A.H. (1935)	74.	Houssay, Bernardo A. (1963)
33.	Cotton, A. (1935)	75.	Joffe, A.F. (1959)
34.	Cotton, Frank A. (1985)	76.	Joliot-Curie, Irene (1935)
35.	Cousteau, J.Y. (1978)	77.	Kahn, Olivier (1999)
36.	Crick, Francis (1985)	78.	Kapitza, Peter (1948)
37.	Cushing, Harvey (1935)	79.	Karman, Theodore von (1961)
	Dale, Henry (1937)	80.	Karrer, P. (1947)
	Daly, R.A. (1952)	81.	Kastler, Alfred (1970)
40.	Dam, Henrik (1965)	82.	Khorana, Har Gobind (1976)
41.	Debye, Peter (1938)	83.	Kock, Winston, E. (1970)
			14 11 1 14 14 5 (1000)

42. Dirac, P.A.M. (1935) 84. Kohlrausch, K.W.F. (1939)

86.	Krogh, A. (1947)
87.	Langmuir, Irving (1937)
88.	Laue, Max von (1954)
89.	Lawrence, E.O. (1954)
90.	Leiper, R.T. (1938)
	Levi-Civita, Tullio (1938)
92.	Lewis, G.N. (1935)
93.	Liepmann, H. Wolfgang (1985)
	Lorenz, E.N. (1981)
95.	Lundsgaard, Einar (1966)
96.	Lwoff, Andre (1969)
97.	Lynen, F. (1968)
98.	Mark, H.F. (1949)
99.	Mecke, Reinhard (1957)
100.	Medawar, P. (1968)
101.	Meyer, Kurt, H. (1952)
102.	Millikan, R.A. (1935)
103.	Mizushima, S. (1961)
104.	Morgan, T.H. (1939)
105.	Muller, Paul H. (1965)
106.	Mulliken, R.S. (1969)
107.	Neuweiler, G. (1992)
108.	Niggli, P. (1937)
109.	Oda, Minoru (1995)
110.	Paschen, Friedrich (1935)
111.	Pauli, Wolfgang (1948)
	Pauling, Linus (1949)
	Pavlov, I.P. (1935)
114.	Pitzer, K.S. (1986)
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115. Plyler, Earle K. (1962)

116. Pontecorvo, G. (1984)

117. Porter, Lord (1989)

121. Rouxel, J. (1994)

122. Roy, Rustum (1990)

118. Reichstein, T. (1953)

119. Richardson, Owen (1935)120. Robinson, Robert (1935)

85. Krebs, H.A. (1969)

123. Rudberg, Erik (1971) 124. Russell, John (1935) 125. Rutherford, Lord (1935) 126. Ruzicka, Leopold (1957) 127. Salam, Abdus (1988) 128. Segre, Emilio (1971) 129. Semenov, N.N. (1960) 130. Series, George (1984) 131. Seward, A.C. (1935) 132. Sewell, R.B. Seymour (1949) 133. Siegbahn, K.M.G. (1935) 134. Sommerfeld, Arnold (1935) 135. Spemann, Hans (1936) 136. Staab, Heinz A. (1989) 137. Staudinger, Hermann (1967) 138. Stoicheff, B.P. (1971) 139. Svedberg, Theodor (1935) 140. Szent Gyorgyi, A. (1948) 141. Szigeti, Gyorgy (1962) 142. Taylor, Geoffrey (1953) 143. Theorell, Hugo (1961) 144. Tiselius, Arne (1960) 145. Todd, Lord (1981) 146. Urey, Harold, C. (1956) 147. Van Slyke, D.D. (1935) 148. Vavilov, N.I. (1938) 149. Vavilov, Sergei (1948) 150. Vinogradov, A.P. (1975) 151. Warburg, Otto (1963) 152. Watson, D.M.S. (1939) 153. Weiland, H. (1935) 154. Willstatter, R. (1936) 155. Wood, R.W. (1937) 156. Woodward, R.B. (1964) 157. Wyckoff, R.W.G. (1955) 158. Yukawa, Hideki (1958)

159. Zeeman, P. (1935)

#### **ASSOCIATES**

This programme was initiated by the Academy in 1983 to identify and encourage promising young scientists. The Associateship is tenable for a maximum period of 5 years until the age of 35 or a minimum period of 3 years. During this period the Associates can attend meetings of the Academy and receive two of the Academy journals of their choice. They are not required to pay any dues to the Academy. The total number of Associates is limited to 100.

Nominations proposing candidates below the age of 35 years can be submitted by Fellows to reach the Academy office by 30 April. For selection to the Associateship during 2015, candidates born after 31-12-1980 are eligible to be nominated. The nomination should include four sets of: nomination form along with a brief write-up, curriculum vitae, list of publications, a brief statement highlighting the research contributions and reprints of the five most important papers of the candidate. The validity of the nomination is one year.

#### **ASSOCIATES ON ROLL**

#### Period

- 2014–2017 **Adarsh,** Kumaran Nair Valsala Devi, b. 1980, Ph.D. (IISc), Department of Physics, Indian Institute of Science Education & Research, ITI-GR Building, Govindapura, Bhopal 462 023, Tel. Off. (0755) 409 2322, Res. (0755) 268 0547, Mobile: 99819 55380, Fax (0755) 409 2392, email: adarsh@iiserb.ac.in, sp. ultrafast nonlinear optics; amorphous semiconductors; condensed matter physics.
- 2012–2015 **Agarwal,** Shivani, b. 1978, Ph.D. (Illinois), Department of Computer Science & Automation, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3204, email: shivani@csa.iisc.ernet.in, URL: http://www.csa.iisc.ernet.in/~shivani/, sp. machine learning; statistical learning theory.
- 2013–2016 **Agarwalla,** Sanjib Kumar, b. 1980, Ph.D. (Calcutta), Assistant Professor, Institute of Physics, F10, Main Building, Sachivalaya Marg, Sainik School Post, Bhubaneswar 751 005, Tel. Off. (0674) 230 6427, Res. (0674) 230 6627, Mobile: 91788 45656, Fax (0674) 230 0142, email: sanjib@iopb.res.in, URL: http://www.iopb.res.in/inst\_members/sanjib.php, sp. particle physics; beyond standard model studies; dark matter.

- 2014–2017 **Ajith,** Parameswaran, b. 1980, Ph.D. (Max Planck Institute), Reader F, International Centre for Theoretical Physics, IISc Campus, Bengaluru 560 012, Tel. Off. (080) 2360 8200/20, Res. (080) 4175 1819, Mobile: 91645 94474, Fax (080) 2360 8199, email: ajith@icts.res.in, URL: http://home.icts.res.in/~ajith, sp. gravitational-wave physics & astronomy; relativity & gravitation, astrophysics.
- 2014–2017 **Ayyer,** Arvind, b. 1980, Ph.D. (Rutgers), Department of Mathematics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3215, Res. (080) 2346 8246, Mobile: 99016 40616, Fax (080) 2360 0146, email: arvind@math.iisc.ernet.in, URL: http://www.math.iisc.ernet.in/~arvind, sp. probability theory; combinatorics; statistical physics.
- 2012–2016 Beegum, Naseema S, b. 1981, Ph.D. (Kerala), Research Center for Renewable Energy Mapping and Assessment, Masdar Institute of Science and Technology, Post Box No. 54224, Abu Dhabi, UAE, Tel. Off. (+971-2) 810 9129, email: naseemaspl@gmail.com, sp. remote sensing; atmospheric aerosols and climate implications; dust forecast modeling.
- 2013–2016 **Bera,** Melinda Kumar, b. 1979, Ph.D. (IIT, Kharagpur), Assistant Professor, Department of Geology and Geophysics, Indian Institute of Technology, Kharagpur 721 302, Mobile: 94339 30456, email: melinda\_bera@yahoo.com; melinda@ gg.iitkgp.ernet.in, URL: http://www.iitkgp.ac.in/fac-profiles/showprofile.php?empcode=SVmdQ&depts\_name=MG, sp. sedimentology; sequence statigraphy; stable isotope geochemistry; paleoclimate; Himalaya.
- 2014–2017 **Bhowmick,** Jyotishman, b. 1981, Ph.D. (ISI, Kolkata), Theoretical Statistics and Mathematics Division, Indian Statistical Institute, 203, B T Road, Kolkata 700 108, Tel. Off. (033) 2575 5410, Res. (033) 2464 5928, Mobile: 90073 13505, Fax (033) 2577 3071. email: jyotishmanb@gmail.com, sp. operator algebras; noncommutative geometry; quantum groups.
- 2014–2017 **Biswas,** Kanishka, b. 1982, Ph.D. (IISc), New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2678, Res. (080) 2362 0380, Mobile: 99020 63469, email: biswas.kanishka@gmail.com; kanishka@jncasr.ac.in, URL: http://www.jncasr.ac.in/kanishka/, sp. solid state & materials chemistry; thermoelectric; inorganic nanomaterials.

- 2010–2015 **Datta,** Ayan, b. 1980, Ph.D. (JNCASR), Department of Spectroscopy, Indian Association for the Cultivation of Science, Raja SC Mullick Road, Jadavpur, Kolkata 700 032, Tel. Off. (033) 2473 4971/2105, Mobile: 98742 95938, Fax (033) 2473 2805, email: spad@iacs.res.in, sp. theoretical chemistry; computational material science; accurate ground state & excited state properties; two-dimensional systems.
- 2012–2015 **Ghosh,** Sujit Kumar, b. 1978, Ph.D. (IIT, Kanpur), Indian Institute of Science Education and Research, Dr Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 8076, Mobile: 95525 72172, Fax (020) 2590 8186, email: sghosh@iiserpune.ac.in, URL: http://www.iiserpune.ac.in/~sghosh/, sp. metal-organic frameworks; functional porous materials.
- 2013–2018 **Gupta,** Neena, b. 1984, Ph.D. (ISI, Calcutta), Statistics and Mathematics Unit, Indian Statistical Institute, 203, B.T. Road, Kolkata 700 108, Tel. Off. (033) 2575 3421, Mobile: 93310 27972, Fax (033) 2577 3071, email: neenag@isical.ac.in; rnanina@gmail.com, sp. commutative algebra; affine fibrations; affine spaces.
- 2013–2016 **Guttal,** Vishwesha, b. 1981, Ph.D. (Ohio), Adjunct Faculty, National Institute for Advanced Studies, Bengaluru; Assistant Professor, Centre for Ecological Sciences, TA-10, Biological Sciences Building, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2360 5797, Mobile: 96637 70707, Fax (080) 2360 1428, email: guttal@ces.iisc.ernet.in, sp. theoretical ecology and evolution; ecosystem dynamics; collective animal behavior; dynamics of financial crashes.
- 2010–2015 **Jain,** Tanvi, b. 1981, Ph.D. (IIT, Delhi), Stat-Math Unit, Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110 016, Mobile: 98998 66343, email: tanvi@isid.ac.in; tvi.jain@gmail.com, sp. operator theory; matrix analysis; topology.
- 2012–2015 **Jeganmohan,** Masilamani, b. 1978, Ph.D. (NTHU, Taiwan), Indian Institute of Science Education and Research, Mendeleev Block, Dr Homi Bhabha Road, Pashan, Pune 411 021, Tel. Off. (020) 2590 8206, Res. (020) 2586 2205, Mobile: 91583 92179, Fax (020) 2589 9790, email: mjeganmohan@iiserpune.ac.in, URL: http://www.iiserpune.ac.in/~mjeganmohan, sp. organometallic chemistry; asymmetric synthesis; total synthesis.

- 2013–2016 Jha, Rajan, b. 1979, Ph.D. (IIT, Delhi), Assistant Professor of Physics, Nanophotonics and Plasmonics Laboratory, School of Basic Sciences, Toshali Bhawan, Satyanagar, Indian Institute of Technology, Bhubaneswar 751 007, Tel. Off. (0674) 257 6100, Mobile: 95566 74679, Fax (0674) 230 1983, email: rjha@iitbbs.ac.in; rajaniitd@gmail.com, sp. optical sensors; plasmonics; nanophotonics.
- 2014–2017 **Kodandaramaiah,** Ullasa, b. 1981, Ph.D. (Stochholm), School of Biology, Indian Institute of Science Education and Research, CET College Campus, Thiruvananthapuram 695 016, Tel. Off. (0471) 259 9424, Res. (0471) 270 8116, Mobile: 82816 37975, Fax (471) 259 7427, email: ullasa@iisertvm.ac.in, URL: http://www.vanasiri.in/ullasa, sp. evolutionary biology; ecology.
- 2013–2016 Mabalirajan, Ulaganathan, b. 1979, Ph.D. (AIIMS), Scientist, Lab 611, Molecular Pathobiology Lab, Institute of Genomics and Integrative Biology, Mall Road, Near Jubilee Hall, Delhi 110 007, Tel. Off. (011) 2766 6156, Mobile: 93117 01569, Fax (011) 2766 7471, email: mabsome@yahoo.co.in, sp. respiratory diseases; immunology; mitochondrial biology.
- 2014–2017 Mahalakshmi, Radhakrishnan, b. 1980, Ph.D. (IISc), Molecular Biophysics Laboratory, Indian Institute of Science Education & Research, Indore By-pass Road, Bhopal 462 066, Tel. Off. (0755) 409 2318, Res. (0755) 268 8272, Mobile: 96850 04721; 97137 83030, Fax (0755) 409 2392, email: maha@iiserb.ac.in, sp. membrane protein biophysics, protein folding, spectroscopy.
- 2013–2016 **Maiti,** Debabrata, b. 1980, Ph.D. (Johns Hopkins), Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, Tel. Off (022) 2576 7155, Res. (022) 2576 8155, Mobile: 98209 07155, Fax (022) 2576 7152, email: dmaiti@chem.iitb.ac.in, sp. synthetic catalysis; organometallic chemistry; bio-inorganic chemistry.
- 2013–2016 **Misra,** Abha, b. 1979, Ph.D. (IIT, Bombay), Department of Instrumentation and Applied Physics, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3198, Res. (080) 2360 4142, Mobile: 94496 82451, email: abha. misra1@gmail.com; abha@iap.iisc.ernet.in, sp. graphene and CNT based NEMS/MEMS devices; mechanical behavior of CNT and graphene foams; sensors and actuators; graphene foam based hybrid fuel cells and batteries.

- 2012–2015 **Mukherjee,** Santanu, b. 1980, Ph.D. (Cologne), Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2850, Res. (080) 2341 3465, Mobile: 77606 35465, Fax (080) 2360 0529, email: sm@ orgchem.iisc.ernet.in, URL: http://orgchem.iisc.ernet.in/faculty/sm/SM.htm, sp. asymmetric catalysis; synthetic methodologies; stereoselective synthesis.
- 2014–2017 **Nag,** Angshuman, b. 1980, Ph.D. (IISc), Department of Chemistry, Indian Institute of Science Education & Research, Dr Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 8117, Res. 95274 99260, Mobile: 95274 99260, Fax (020) 2590 8186, email: angshuman@iiserpune.ac.in, URL: http://www.iiserpune.ac.in/~angshuman, sp. colloidal semiconductor nanocrystals; photophysical properties; optoelectronic devices.
- 2012–2015 **Nair,** Nisanth Narayanan, b. 1979, Ph.D. (Hannover), Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, Tel. Off. (0512) 259 6311, Res. (0512) 259 8402, Mobile: 97956 69397, Fax (0512) 259 7436, email: nnair@itk.ac.in, URL: http://home.iitk.ac.in/~nnair, sp. theoretical chemistry; molecular dynamics simulations; soft condensed matter systems.
- 2010–2015 **Nair,** Vijayakumar Sivadasan, b. 1981, Ph.D. (Kerala), Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram 695 022, Tel. Off. (0471) 256 2160, Mobile: 94956 56326, Fax (0471) 270 6535, email: vijayakumarsnair@gmail.com, sp. climate change; atmospheric aerosols; radiative forcings; cryosphere-climate interactions.
- 2014–2017 **Pandey,** Anshu, b. 1982, Ph.D. (Chicago), Solid State and Chemistry Unit, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2070, Mobile: 99016 20721, Fax (080) 2360 1310, email: anshup@sscu.iisc.ernet.in, URL: http://www.sscu.iisc.ernet.in/anshu.html, sp. Nanocrystals; magneto-optical properties; ultrafast spectroscopy.
- 2011–2015 **Pavan Kumar,** G V, b. 1980, Ph.D. (JNCASR, Bangalore), Department of Physics, Indian Institute of Science Education and Research, Dr Homi Bhabha Road, Pashan, Pune 411 008, Tel. Off. (020) 2590 8026, Fax (020) 2586 5315, email: pavan@iiserpune.ac.in, URL: http://www.iiserpune.ac.in/~pavan/, sp. plasmonics; Raman scattering; nanophotonics.

- 2013–2016 **Rajaraman,** Gopalan, b. 1979, Ph.D. (Manchester), Department of Chemistry, Indian Institute of Technology, Mumbai 400 076, Tel. Off. (022) 2576 7183, Res. (022) 2576 8183, Mobile: 98336 07183, email: rajaraman@ chem.iitb.ac.in, sp. computational inorganic chemistry; molecular magnetism; catalysis.
- 2012–2015 **Ray,** Supratim, b. 1979, Ph.D. (Johns Hopkins), Assistant Professor, Centre for Neuroscience, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 3437, Res. (080) 2351 5684, Mobile: 77606 64684, email: sray@cns.iisc.ernet.in, URL: http://www.cns.iisc.ernet.in/~sray/, sp: systems neuroscience; gamma oscillations; signal processing.
- 2012–2015 **Roy,** Parthanil, b. 1978, Ph.D. (Cornell), Stat-Math Unit, Indian Statistical Institute, 203, B. T. Road, Kolkata 700 108, Tel. Off. (033) 2575 2312, Mobile: 90387 42510, Fax (033) 2577 3071, email: parthanil@isical.ac.in, URL: https://sites.google.com/site/parthanilroy/, sp. probability theory; stochastic processes; random fields.
- 2012–2015 **Sahu,** Kirti Chandra, b. 1978, Ph.D. (JNCASR), Department of Chemical Engineering, Indian Institute of Technology, Ordnance Factory Estate, Yeddumailaram 502 205, Tel. Off. (040) 2301 6053, Mobile: 83740 91309, Fax: (040) 2301 6032, email: ksahu@iith.ac.in, URL: http://www.iith.ac.in/~ksahu/, sp. fluid mechanics, transition to turbulence in shear flows; spatially developing flows in complex geometries; multiphase flows; interfacial fluid mechanics.
- 2013–2018 **Seshasayee,** Aswin Sai Narain, b. 1983, Ph.D. (Cambridge), National Centre for Biological Sciences, GKVK Campus, Bengaluru 560 065, Tel. Off. (080) 2366 6001, Res. (080) 4091 1541, Mobile: 98448 13559, email: aswin@ncbs. res.in, sp. microbiology; genomics; bioinformatics.
- 2014–2017 **Srivastava,** Chandan, b. 1980, Ph.D. (Alabama), Department of Materials Engineering, Indian Institute of Science, Bengaluru 560 012, Tel. Off. (080) 2293 2834, Mobile: 99006 26327, email: csrivastava@materials.iisc. ernet.in, sp. synthesis of nanosolids; size-dependent phase stability; TEM.

- 2012–2015 Subba Reddy, Maddika, b. 1978, Ph.D. (Manitoba), Centre for DNA Fingerprinting & Diagnostics, Gruhakalpa, Nampally, Hyderabad 500 001, Tel. Off. (040) 2474 9353, Mobile: 99639 00011, Fax (040) 2474 9448, email: msreddy@cdfd.org.in, URL: http://cdfd.org.in/labpages/ms\_reddy.html, sp. cell biology; cell signaling; protein modifications.
- 2014–2017 **Swathi,** Rotti Srinivasamurthy, b. 1982, Ph.D. (IISc), School of Chemistry, Indian Institute of Science Education & Research, CET Campus, Thiruvananthapuram 695 016, Tel. Off. (0471) 259 9404, Mobile: 97466 15945, email: swathi@iisertvm.ac.in, URL: http://www.iisertvm.ac.in/scientists/r-s-swathi/personal-information.html, sp. theoretical chemistry; quantum chemistry; spectroscopy.
- 2011–2015 **Vineeth,** C, b. 1980, Ph.D. (Kerala), Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram 695 022, Tel. Off. (0471) 256 3122, Mobile: 97474 61222, Fax (0471) 270 6535, email: c\_vineeth@vssc.gov.in, sp. optical remote sensing of terrestrial & planetary atmospheres.
- 2013–2016 **Viswanatha,** Ranjani, b. 1979, Ph.D. (IISc), International Centre for Materials Science and New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur P.O., Jakkur, Bengaluru 560 064, Tel. Off. (080) 2208 2573, Mobile: 95359 75745, Fax (080) 2208 2599, email: rv@jncasr.ac.in, sp. nanomaterials; spectroscopy & electronic structure; magnetism.

#### **ASSOCIATES SELECTED IN 2014**

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- 6. Kodandaramaiah, U.
- 7. Mahalakshmi, R.
- 8. Nag, Angshuman
- 9. Pandey, Anshu
- 10. Srivastava, Chandan
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#### **FORMER ASSOCIATES**

- 1. Agrawal, Manindra (1998–2001) (Engineering & Technology)
- 2. Agrawal, Uday S. (1993–1997) (Engineering & Technology)
- 3. Anand, Venkataramanarao Govindan (2008–2011) (Chemistry)
- 4. Anandavardhanan, U K (2007–2011) (Chemistry)
- 5. Ananth, Sudarshan (2009–2013) (Physics)
- 6. Anantharamaiah, Kuduvalli Ramaswamaiah (1983-87) (Physics)
- 7. Ansumali, Santosh (2010–2013) (Engineering)
- 8. Antia, Hormazad Maneck (1986-90) (Physics)
- 9. Arora, Dilip Kumar (1985-88) (Plant Sciences)
- 10. Arun, Sripati Panditaradhyulu (2010-2013) Medicine
- 11. Aswal, Vinod Kumar (2000–05) (Physics)
- 12. Athithan, Gopalasamy (1989–93) (Engineering & Technology)
- 13. Athreya, Siva (2002-06) (Mathematical Sciences)
- 14. Azmi, R.J. (1983-86) (Earth & Planetary Sciences)
- 15. Bagchi, Biman (1985-89) (Chemistry)
- Balasubramanian, Ramachandran (1983–86)
   (Mathematical Sciences)
- 17. Banerjee, Dipankar (1985–88) (Engineering & Technology)
- 18. Banerjee, Rahul (1996-2000) (Physics)
- 19. Banerjee, Rahul (2009-2012) (Chemistry)

- 20. Banerjee, Sunanda (1985-88) (Physics)
- 21. Barma, Mustansir (1983–86) (Physics)
- 22. Basu, Amit J. (1993-97) (Engineering & Technology)
- 23. Basu, Biswajit (1989–94) (Engineering & Technology)
- 24. Begum, Ayesha (2006-2011) (Physics)
- 25. Bharali, Gautam (2006-09) (Mathematical Sciences)
- 26. Bhat, B.V. Rajarama (1996–2001) (Mathematical Sciences)
- 27. Bhat, T. Balakrishna (1983–86) (Engineering & Technology)
- 28. Bhatt, Abhay Gopal (1996–2001) (Mathematical Sciences)
- 29. Bhattacharya, Dipankar (1988-93) (Physics)
- 30. Bhattacharya, Siddhartha (2003-06) (Mathematical Sciences)
- 31. Bhattacharyya, Suvendra Nath (2010–2013) (General Biology)
- 32. Bhavesh, Neel Sarovar (2009–2012) (General Biology)
- 33. Biswas, Debabrata (1994–99) (Physics)
- 34. Biswas, Kingshook (2009–2014) (Mathematical Sciences)
- 35. Chakrabarti, Sandip K. (1989-93) (Physics)
- 36. Chakrabarti, Subhabrata (2004-07) (Medicine)
- 37. Chakraborty, Partha Sarathi (2005–08) (Mathematical Sciences)
- 38. Chakravarty, Charusita (1995–99) (Chemistry)
- 39. Chand, Hum (2009-2012) (Physics)
- 40. Chandra, Amalendu (1994–98) (Chemistry)
- 41. Chandran, L. Sunil (2009–2012) (Engineering & Technology)
- 42. Chandrasekar, V.K. (2011–2014) (Engineering & Technology)
- 43. Chandrasekhar, Jayaraman (1986-89) (Chemistry)
- 44. Chaplot, Samrath Lal (1985-90) (Physics)
- 45. Chattaraj, Pratim Kumar (1990–93) (Chemistry)
- 46. Chatterjee, Ambar (1986-89) (Physics)
- 47. Chaudhuri, Probal (1994–98) (Mathematical Sciences)
- 48. Chauhan, Santosh (2009–2013) (Medicine)
- 49. Cherayil, Binny J. (1990–93) (Chemistry)
- 50. Choudhury, Debajyoti (1993-98) (Physics)
- 51. Chowdhury, Rukhsana (1989-93) (General Biology)
- 52. Dabeer, Onkar Jayant (2009–2012) (Engineering & Technology)
- 53. Das, Partha Pratim (1993–96) (Engineering & Technology)
- 54. Dasgupta, Pallab (1998–2002) (Engineering & Technology)
- 55. Datta, Ranjan (2010–2013) (Engineering & Technology)

- 56. Deshpande, Avinash A. (1989-93) (Physics)
- 57. Desiraju, Gautam Radhakrishna (1985-88) (Chemistry)
- 58. Dethe, Dattatraya H. (2011–2014) (Chemistry)
- 59. Dewangan, Pawan (2009–2012) (Earth & Planetary Sciences)
- 60. Dey, Abhishek (2010–2013) (Chemistry)
- 61. Dhar, Abhishek (2001-05) (Physics)
- 62. Dhar, Deepak (1983-86) (Physics)
- 63. Dixit, Narendra M (2008–2011) (Engineering & Technology)
- 64. Gadagkar, Raghavendra (1983-88) (Animal Sciences)
- 65. Gadgil, Siddhartha (2003-07) (Mathematical Sciences)
- 66. Gadre, Shridhar Ramchandra (1983-86) (Chemistry)
- 67. Gaikar, Vilas G. (1992-95) (Engineering & Technology)
- 68. Ganapathy, Rajesh (2010-2013) (Physics)
- 69. Ganesh, Krishnarajanagar Nagappa (1984-88) (Chemistry)
- 70. Ganguly, Gautam (1989–94) (Physics)
- 71. Geetha, L. (1996-99) (Animal Sciences)
- 72. George, Subi Jacob (2011–2014) (Chemistry)
- 73. Ghosh, Anil Kumar (2007–2010) (Mathematical Sciences)
- 74. Ghosh, Ashish (1997–2001) (Engineering & Technology)
- 75. Ghosh, Pushpito Kumar (1987–89) (Chemistry)
- 76. Ghosh, Saurabh (2003-06) (General Biology)
- 77. Ghosh, Shankar (2005-09) (Physics)
- 78. Ghosh, Suhrit (2009-2012) (Chemistry)
- 79. Ghosh, Zhumur (2011–2014) (General Biology)
- 80. Godbole, Rohini Madhusudan (1985-88) (Physics)
- 81. Gogate, Parag Ratnakar (2009–2012) (Engineering & Technology)
- 82. Goswami, Debashish (2003-07) (Mathematical Sciences)
- 83. Goswami, Jitendra Nath (1984-87) (Earth & Planetary Sciences)
- 84. Govindaraju, T. (2011–2014) (Chemistry)
- 85. Gowrishankar, Jayaraman (1987-91) (General Biology)
- 86. Gudi, Thirupathi (2011-2014) (Mathematical Sciences)
- 87. Gun, Sanoli (2010–2013) (Mathematical Sciences)
- 88. Gupta, Anjan Kumar (2004-07) (Physics)
- 89. Gupta, Purushottam Das (1986-89) (Physics)
- 90. Gupta, P.K. (1987-88) (Plant Sciences)

- 91. Gupta, Sanjeev Kumar (1997–2001) (Engineering & Technology)
- 92. Gupta, Satish Kumar (1986-89) (General Biology)
- 93. Guptasarma, Purnananda (1997–2001) (General Biology)
- 94. Habib, Saman (1997-02) (General Biology)
- 95. Hariharan, Ramesh (2000–04) (Engineering & Technology)
- 96. Harsha, Prahladh (2011–2014) (Engineering & Technology)
- 97. Holla, Yogish I. (2002–06) (Mathematical Sciences)
- 98. Home, Dipankar (1987-90) (Physics)
- 99. Hosur, Ramakrishna Vijayacharya (1985-88) (Chemistry)
- 100. Inamdar, Maneesha S. (1999-2002) (General Biology)
- 101. Inderjit (1995–98) (Plant Sciences)
- 102. lyer, B.R. (1984-87) (Physics)
- 103. Jain, Mukesh (2007-2012) (Plant Sciences)
- 104. Jain, Vimal Kumar (1988-91) (Chemistry)
- 105. Jana, Tushar (2005–09) (Chemistry)
- 106. Jemmis, Eluvathingal Devassy (1984-87) (Chemistry)
- 107. Joshi, Amitabh (1997-2000) (Animal Sciences)
- 108. Joshi, Jyeshtharaj Bhalchandra (1983–86) (Engineering & Technology)
- 109. Joshi, Yogesh Moreshwar (2006-09) (Engineering & Technology)
- 110. Karthikeyan, Thangaraj (2008-2011) (Engineering & Technology)
- 111. Kaul, Romesh Kumar (1984–87) (Physics)
- 112. Kavitha, Telikepalli (2007–2010) (Engineering & Technology)
- 113. Kayastha, Arvind Mohan (1991–95) (General Biology)
- 114. Kembhavi, Ajit Keshav (1983-86) (Physics)
- 115. Khan, Faiz Ahmed (1997-2000) (Chemistry)
- 116. Khare, Chandrashekhar B. (1998–2002) (Mathematical Sciences)
- 117. Kinger, Asha Kiran (1993–97) (General Biology)
- 118. Kolaskar, Ashok Sadanand (1984-87) (General Biology)
- 119. Koshti, Sucheta (1995–98) (Physics)
- 120. Krishnamurthy, Hulikal Ramaiyengar (1983-86) (Physics)
- 121. Krishnamurthy, M. (1999-2004), (Physics)
- 122. Krishnan, Nadathur (1990–95) (Physics)
- 123. Krishnan, Yamuna (2005–09) (General Biology)
- 124. Krishnapur, Manjunath (2009–2014) (Mathematical Sciences)
- 125. Kshirsagar, Abhijit Khanderao (1992-95) (Physics)

- 126. Kulkarni, Amol (2011–2014) (Engineering & Technology)
- 127. Kulkarni, Mohan Gopalkrishna (1984–88) (Engineering & Technology)
- 128. Kulkarni, R.N. (1984-88) (Plant Sciences)
- 129. Kumar, Alok (1993-96) (Physics)
- 130. Kumar, Brijesh (2006–2011) (Physics)
- 131. Kumar, Neithalath Mohan (1984–87) (Mathematical Sciences)
- 132. Kumaran, Viswanathan (1995–2000) (Engineering & Technology)
- 133. Lala, Anil Kumar (1983–86) (Chemistry)
- 134. Lele, Ashish K. (1996–2001) (Engineering & Technology)
- 135. Mahajan, Namit (2008–2011) (Physics)
- 136. Mahapatra, Santanu (2009–2012) (Engineering & Technology)
- 137. Maitra, Uday (1989–92) (Chemistry)
- 138. Maji, Pradipta (2009–2012) (Engineering & Technology)
- 139. Malik, Sudip (2009-2012) (Chemistry)
- 140. Mandal, Gautam (1992–97) (Physics)
- 141. Mandal, Nibir (1992-97) (Earth & Planetary Sciences)
- 142. Mandal, Sumantra (2009-2014) (Engineering & Technology)
- 143. Manglik, Ajay (1996–2001) (Earth & Planetary Sciences)
- 144. Marimuthu, Ganapathy (1987-89) (Animal Sciences)
- 145. Maulik, Krishanu (2008–2011) (Mathematical Sciences)
- 146. Mazumdar, Shyamalava (1991-96) (Chemistry)
- 147. Mehra, Anurag (1989–94) (Engineering & Technology)
- 148. Mehra, Narinder Kumar (1983–86) (Medicine)
- 149. Mehrotra, Ravi (1986-89) (Physics)
- 150. Menon, Gautam I. (1996–2001) (Physics)
- 151. Mishra, Rajiv Sharan (1993-96) (Engineering & Technology)
- 152. Mitra, Abhijit (2008–2011) (Engineering & Technology)
- 153. Mitra, Supriyo (2011–2014) (Earth & Planetary Sciences)
- 154. Mittal, Aditya (2005–09) (Engineering & Technology)
- 155. Mohan, Anand (1988-92) (Earth & Planetary Sciences)
- 156. Mohanty, Bedangadas (2003-07) (Physics)
- 157. Mohanty, Saradaprasad (1989-93) (Earth & Planetary Sciences)
- 158. Mukerjee, Subroto (2010–2013) (Physics)
- 159. Mukherjee, Partha Sarathi (2007–2010) (Chemistry)
- 160. Mukherjee, Prabir Kumar (1997–2001) (Physics)
- 161. Mukhopadhyay, Banibrata (2007-2010) (Physics)

- 162. Mukhopadhyay, Debdeep (2011-2014) (Engineering & Technology)
- 163. Mukhopadhyay, Pritam (2007-2010) (Chemistry)
- 164. Mukhopadhyay, Samrat (2009–2012) (General Biology)
- 165. Nagaraj, Ramakrishnan (1985-88) (General Biology)
- 166. Nagendra, Harini (2003-07) (Plant Sciences)
- 167. Nagendran, Selvarajan (2009–2012) (Chemistry)
- 168. Nair, Arvind N. (2000-05) (Mathematical Sciences)
- 169. Nanda, Samik (2010–2013) (Chemistry)
- 170. Nangia, Ashwini (1992-95) (Chemistry)
- 171. Narayan, Ramesh (1983-86) (Physics)
- 172. Narayanan, Eravimangalam Krishnan (2001–05) (Mathematical Sciences)
- 173. Natarajan, Vijay (2010–2013) (Engineering & Technology)
- 174. Neelankantan, Krishnan (1983-88) (Engineering & Technology)
- 175. Nitsure, Nitin (1989-92) (Mathematical Sciences)
- 176. Nori, Madhav Vithal (1983–86) (Mathematical Sciences)
- 177. Padhy, Lakshmi Charan (1983-86) (General Biology)
- 178. Padiath, Quasar Saleem (2002-06) (Medicine)
- 179. Padmanabhan, Thanu (1984-89) (Physics)
- 180. Pal, Arupkumar (1999–2003) (Mathematical Sciences)
- 181. Pal, Bipul (2008-2011) (Physics)
- 182. Pande, Kanchan (1987-92) (Earth & Planetary Sciences)
- 183. Pandit, Rahul (1987-91) (Physics)
- 184. Parameswaran, A.J. (1992–97) (Mathematical Sciences)
- 185. Paranjape, Kapil Hari (1992-95) (Mathematical Sciences)
- 186. Parthasarathi, Ramakrishnan (2008-2013) (Chemistry)
- 187. Patel, Apoorva D. (1990-94) (Physics)
- 188. Patel, Vijay Vinayak (2000-04) (Engineering & Technology)
- 189. Pati, Arun Kumar (1998–2001) (Physics)
- 190. Pati, Ashok Kumar (1983-88) (Physics)
- 191. Patil, Nitin Tukaram (2010–2013) (Chemistry)
- 192. Patil, Satish Amrutrao (2009-2012) (Chemistry)
- 193. Patra, Amit (1992–97) (Engineering & Technology)
- 194. Patwardhan, Ashwin Wasudeo (2004–2007) (Engineering & Technology)
- 195. Pradeep Singh, Narayana Dhuleep (2009–2012) (Chemistry)

- 196. Pradip (1988-91) (Engineering & Technology)
- 197. Prasad, Amritanshu (2005-09) (Mathematical Sciences)
- 198. Prasad, Sudarsan D. (1984–87) (Engineering & Technology)
- 199. Prathap, Gangan (1985-88) (Engineering & Technology)
- 200. Priyakumar, U. Deva (2011-2014) (General Biology)
- 201. Pucadyil, Thomas J. (2011–2014) (General Biology)
- 202. Radhakrishnan, Jaikumar (1994-99) (Engineering & Technology)
- 203. Radhakrishnan, T.P. (1990-95) (Chemistry)
- 204. Raghubanshi, Akhilesh Singh (1993-98) (Plant Sciences)
- 205. Rajadhyaksha, Rajeev Anand (1984–87) (Engineering & Technology)
- 206. Ramakrishna, Subramaniam Anantha (2004–2007) (Physics)
- 207. Ramakrishnan, S. (1991-95) (Chemistry)
- 208. Ramaswami, Mani (1991-96) (General Biology)
- 209. Ramaswamy, Ramakrishna (1985-88) (Chemistry)
- 210. Ramaswamy, Sriram (1988-92) (Physics)
- 211. Ramesh, D.S. (1991-96) (Earth & Planetary Sciences)
- 212. Ramkumar, Peramachanahalli Sachidananda (1998-2001) (Physics)
- 213. Ranade, Vivek Vinayak (1994-98) (Engineering & Technology)
- 214. Ranganathan, Anand (2002–2006) (General Biology)
- 215. Rangarajan, Pundi Narasimhan (1994-98) (General Biology)
- 216. Rangarajan, Raghavan (1998–2001) (Physics)
- 217. Rao, I.V. Ramanuja (1983-88) (Plant Sciences)
- 218. Ray, Debashis (1990–95) (Chemistry)
- 219. Ray, Jyotiranjan (1999–2004) (Earth & Planetary Sciences)
- 220. Ray, Partho Sarothi (2010-2013) (General Biology)
- 221. Raychaudhuri, Arup Kumar (1986–89) (Physics)
- 222. Rodrigues, Veronica Filomena (1983-88) (General Biology)
- 223. Row, Tayur N. Guru (1983-86) (Chemistry)
- 224. Roy, Debdas (2009–2012) (Engineering & Technology)
- 225. Roy Chowdhury, Dipanwita (1994–1998) (Engineering & Technology)
- 226. Saha, Binoy Krishna (2009–2013) (Chemistry)
- 227. Saha, Dipankar (2011–2014) (Engineering & Technology)
- 228. Saikia, Dhruba Jyoti (1986-91) (Physics)
- 229. Saluja, Daman (1990-94) (Plant Sciences)
- 230. Sampathkumaran, Echur Varadadesikan (1987-89) (Physics)

- 231. Samuel, Joseph (1985-90) (Physics)
- 232. Sandeep, Kunnath (2008–2011) (Mathematical Sciences)
- 233. Sankar, G. (1988-93) (Chemistry)
- 234. Sarkar, Chitra (1987–90) (Medicine)
- 235. Sarkar, Ram Rup (2006-09) (Animal Sciences)
- 236. Sarma, Dipankar Das (1987-90) (Chemistry)
- 237. Satheesh, Sreedharan Krishnakumari (2001–05) (Earth & Planetary Sciences)
- 238. Sathyamurthy, Narayanasami (1983-86) (Chemistry)
- 239. Saxena, Manoj (2009–2012) (Engineering & Technology)
- 240. Sekhar, Jainagesh Akkaraju (1986-91) (Engineering & Technology)
- 241. Sen, Ashoke (1988–91) (Physics)
- 242. Senthil Kumar, Perumal (2007-2010)(Earth & Planetary Sciences)
- 243. Sengupta, Surajit (1994–97) (Physics)
- 244. Seshadri, Ram (1999–2002) (Chemistry)
- 245. Shah, Nimish A. (1993-98) (Mathematical Sciences)
- 246. Shalivahan (2002-2006) (Earth & Planetary Sciences)
- 247. Shankar, Viswanathan (2004-2007) (Chemistry)
- 248. Shankaranarayanan, Subramaniam (2010–2013) (Physics)
- 249. Sharma, Vijay Kumar (1998-2002) (Animal Sciences)
- 250. Shenoy, Aroon Vasudev (1985-88) (Engineering & Technology)
- 251. Shenoy, Vijay Balakrishna (2001–2005) (Engineering & Technology)
- 252. Sheth, Hetu C. (2003-2007) (Earth & Planetary Sciences)
- 253. Shetye, Satish Ramanath (1984-87) (Earth & Planetary Sciences)
- 254. Siddharthan, Rahul (2005-2008) (Physics)
- 255. Singh, Ritesh K. (2011-2014) (Physics)
- 256. Singh, Sanjay (2009–2013) (Chemistry)
- 257. Sivarajan, Kumar (1997–2000) (Engineering & Technology)
- 258. Srianand, R. (1996-2001) (Physics)
- 259. Sridhar, Perali Ramu (2011-2014) (Chemistry)
- 260. Sridharan, Raja (1999-2002) (Mathematical Sciences)
- 261. Srikanth, Srinivasan (1992–95) (Engineering & Technology)
- 262. Srinivas, Vasudevan (1988–93) (Mathematical Sciences)
- 263. Srinivasa Raghavan, N.R. (2004–2007) (Engineering & Technology)
- 264. Sriram, Vishwanath (2006–2011) (General Biology)
- 265. Subrahmanyan, Ravi (1990-95) (Physics)

- 266. Subramanian, Ganesh (2007–2010) (Engineering & Technology)
- 267. Sujatha, R. (1993-97) (Mathematical Sciences)
- 268. Sundararajan, G. (1987-88) (Engineering & Technology)
- 269. Sunoj, Raghavan B. (2006–09) (Chemistry)
- 270. Suresh Babu, S N (2007-2011) (Earth & Planetary Sciences)
- 271. Suresh, Venapally (1998–2001) (Mathematical Sciences)
- 272. Tandon, Nikhil (1995–98) (Medicine)
- 273. Taraphder, Srabani (1999–2004) (Chemistry)
- 274. Thampi, Smitha V. (2011-2014) (Earth & Planetary Sciences)
- 275. Thanikaivelan, P (2007-2011) (Engineering & Technology)
- 276. Thattai, Mukund (2005–09) (General Biology)
- 277. Thilagar, Pakkirisamy (2009-2012) (Chemistry)
- 278. Tirumkudulu, Mahesh S. (2005-2008) (Engineering & Technology)
- 279. Tole, Shubha (1999-2002) (General Biology)
- 280. Tripathi, Vikram (2007–2010) (Physics)
- 281. Tuli, Rakesh (1986-89) (Plant Sciences)
- 282. Udgaonkar, Jayant Bhalchandra (1991-95) (General Biology)
- 283. Vaidya, Vidita Ashok (2000–2005) (Medicine)
- 284. Vasudevan, Sukumaran (1987-88) (Chemistry)
- 285. Venkatakrishnan, P. (1984-88) (Physics)
- 286. Venugopal, Santhanam (2009–2012) (Engineering & Technology)
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- 294. Yadav, Jhillu Singh (1984-87) (Chemistry)
- 295. Yashonath, Subramanian (1988-91) (Chemistry)

# PUBLICATIONS JOURNALS

	Name of Journal	No. of normal issues/ year	Vol. No. 2015	in E-mail (journal_id)*
1.	Bulletin of Materials Science	6	38	matersci
2.	Journal of Astrophysics and Astronomy	4	36	jaa
3.	Journal of Biosciences	4	40	jbiosci
4.	Journal of Chemical Sciences (formerly Proceedings: Chemical Sciences)	12	127	chemsci
5.	Journal of Earth System Science (formerly Proceedings: Earth & Planetary Sciences)	8	124	jess
6.	Journal of Genetics	4	94	jgenet
7.	Pramana (Journal of Physics)	12	84, 85	pramana
8.	Proceedings (Mathematical Sciences)	4	125	mathsci
9.	Resonance – Journal of Science Education	12	20	resonanc
10.	Sadhana – Academy Proceedings in Engineering Sciences	8	40	sadhana
11.	Current Science (published by the Current Science Association in collaboration with the Academy)	24	108, 109	currsci

The scope of each journal, information to contributors and subscription details are indicated in the journals. More information is available on the respective journal home pages (see Academy website www.ias.ac.in) which also include full text of published articles.

## OTHER PERIODICALS

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1963	Nagpur		Varanasi
1964	Pune	2005	Tiruchirappalli
1965	Hyderabad	2006	Indore
1966	Madurai	2007	Thiruvananthapuram
1967	Chennai		New Delhi
1968	Ahmedabad	2009	July - Hyderabad
1969	Aurangabad		Nov Bangalore
1970	Bangalore	2010	Goa
1971	Bangalore	2011	Ahmedabad
1972	Mumbai	2012	Dehra Dun
1973	Mangalore	2013	Chandigarh
	Delhi		Chennai
1975	Nagpur		
	= -		

# OFFICE STAFF

General Ph. No.: 2266 1200	E-mail: user id@ias.ernet.in
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General Ph. No.: 2266 1200			E-maii: user_id@ias.ernet.in		
	Office (Direct)	Residence	Mobile	E-mail (user_id)	
Chandramohan, G. (Executive Secretary)	2266 1203 2361 3922	2527 0173	90080 32001	chandra	
Madhavan, G. ( <i>Co-ordinator – Science</i> <i>Education Panel</i> )	2266 1201 2361 4592	2341 7960	98440 79282	madhavan	
Maheshchandra, N. (Deputy Executive Secretary)	2266 1214	2351 8081	90080 32004	mahesh	
Shashidhar, A. (Accounts Officer)	2266 1213	-	99000 38761	shashidhar	
Ravi Kumar, C.S. (Assistant Executive Secretary)	2266 1207	-	90080 32002	ravi	
Sethumani, B. (Assistant Executive Secretary)	2266 1215	2351 5633	90080 32003	sethu	
Hema Wesley (Consultant - Publications)	2266 1251	2557 7645	98865 05925	hema	
Editorial Staff – Acade	my				
Cicilia Edwin	2266 1250	2360 1614	_	cici	
Gracy Rani, R.A.	2266 1270	=	97403 24185	gracy	
Jai Benjamin	2266 1252	=	97436 36291	joy	
Mahabaleswara, T.D.	2266 1267	2642 1521	94496 36215	maha	
Mary Mathai	2266 1241	2547 4916	99025 31781	mary	
Nagesh, K.	2266 1244	=	98863 24220	nagesh	
Padmaja, N.	2266 1268	=	94490 07041	padmaja	
Prakash, N.A.	2266 1269	2344 6371	99160 51882	prakash	
Pushpavathi, R.	2266 1243	=	99450 07273	pushpa	
Shylaja, K.S.	2266 1242	_	99016 81773	shylaja	
Srimathi, M.	2266 1248	2341 1813	98804 49261	srimathi	
Sudarshana Dhar	2266 1279	2360 0273	99454 35868	sdhar	
Sushila Rajagopal	2266 1249	=	99000 94263	sushila	
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Editorial Staff - Current Science: Ph. No.: 2361 2310

Editorial Staff – Current Science: Ph. No.: 2361 2310				
	Office (Direct)	Residence	Mobile	E-mail (user_id)
Anuradha, R.	2266 1264	=	99006 55618	anuradha
Chandrika Ramesh	2266 1263	2334 5837	99806 90954	chk
Geetha, D.L.	2266 1265	_	93798 95857	dlgeetha
Rajitha, V.	2266 1262	_	97312 11310	rajitha
Venkateswari, V.	2266 1263	_	90087 54808	bhuvana
Venugopal, M.S.	2266 1261	2351 7336	99000 38762	venu
Accounts/Administration/6	Circulation St	aff		
Asha, B.S.	2266 1209	=	99454 58250	asha
Chethana, H.	2266 1221	=	99723 81907	chethana
Chikkahanumanthappa, L.	2266 1216	=	95357 55832	hanu
Geetha, K.	2266 1210	2345 9674	81230 51203	geetha
Jairaj, Peter	2266 1209	_	99168 72236	jairaj
Jayakumar, A.	2266 1212	_	96327 26132	jaykumar
Krishna, B.	2266 1211	2846 3121	_	krishna
Nalini, B.R.	2266 1205	2330 9622	98867 81301	nalini
Rajesh, P.	2266 1210	_	90080 32005	rajesh
Ranjeet Kumar Koshta	2266 1224	_	99009 51280	ranjeet
Ranjini Mohan	2266 1208	2345 4321	97407 82566	ranjini
Roopashri, M.S.	2266 1202	_	87626 88980	roopa
Sumesh, K.S.	2266 1270	_	81239 96819	sumesh
Tejeswini, T.M.	2266 1212	_	95912 37887	tejes12
Thirumalai, N.	2266 1204	2663 4067	98807 15025	thiru
Vanitha, M.	2266 1206	_	96630 88173	vanitha
Vedamurthy, C.	2266 1211	2325 8357	_	veda
Temporary/Part-Time Staff	f			
Ananthamurthy, H.R.	2266 1221	-	91643 42958	anantha
Bharathi Gowda, M.H.	2266 1246	-	94825 12357	bharathi
Gangadhara, M.C.	2266 1221	=	91415 31452	=
Ipsita, H.	2266 1266	2338 4370	94480 50466	ipsita
Kshipra Shukre	2266 1245	_	97421 12300	-
Mary Ranjeetha, L.	2266 1271	_	98447 82852	ranjeeta
Naresh Kumar, M.	2266 1268	_	95355 82083	naresh
Punyakoti, G.V.	2266 1265	_	97401 56969	=
Raj Lakshmi, M.	2266 1245	2341 6627	99808 74869	raj
Sandhya Rani, B.	2266 1266	2333 6016	96118 13602	=
Subashini, N.	2266 1264	2341 9667	_	suba
Sujatha Mohankumar	2266 1245	2341 4376	96630 64931	sujatha

Supporting Staff				
Bhaskar, V.	2266 1204	-	99725 48697	bhaskar
Channaiah, H.	2266 1223	_	-	
Gangadharaiah, H.	2266 1216	-	94485 06960	
Govindaswamy, J.	2266 1216	-	88614 37221	
Manjunatha, N.	2266 1238	-	-	
Rathnamma, N.	2266 1217	-	-	
Ravindra, M.	2266 1238	-	94482 24276	
Vijaya Kumar, R.P.	2266 1217	_	94482 46083	

# **Guest House (Academy premises)**

	Direct lines	
Room No. 1	(080) 2266 1231	
Room No. 2	(080) 2266 1232	
Room No. 3	(080) 2266 1233	
Room No. 4	(080) 2266 1234	
Room No. 5	(080) 2266 1235	
Room No. 6	(080) 2266 1236	

# Fellows' Residency (Jalahalli Guest House)

Gangadharaiah, H.	(080) 2838 1934	94485 06960
Ravindra, M.	(080) 2838 1934	94482 24276

#### **CALENDAR OF MEETINGS IN 2015**

#### **Annual Meetings:**

26th Mid-Year Meeting (Bengaluru) . . 3–4 July 81st Annual Meeting (Pune) . . 6–8 November

## **Council Meetings:**

First Meeting ... 4 July

Second Meeting ... 5–6 December

# **Sectional Committee Meetings:**

First Meeting (Bengaluru) . . 5 July

Second Meeting (Bengaluru) . . 14 November

## **LIST OF CLOSED HOLIDAYS IN 2015**

01 January
15 January
26 January
17 February
18 Good Friday
19 Ganesha Chaturthi

25 September .. Bakrid

02 October ... Gandhi Jayanthi 22 October ... Ayudha Pooja 23 October ... Vijayadashami 10 November ... Naraka Chaturdasi

24 December .. Id-Meelad 25 December .. Christmas

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