

CALL FOR PAPERS

Registered participants are requested to submit an extended abstract (template in Word) through EasyChair (<https://aachnbgu.aaccrs.org/#abstract>) or to aachnbgu2018@gmail.com by Oct 15, 2022. Participants are requested to write "Abstract for AAC-2022, «ParticipantID»" (The Participant ID will be assigned during registration through E-mail) in the subject line while sending the extended abstracts by E-mail. It is proposed to bring out proceedings of the Conference. Acceptance notification will be communicated to authors by Oct 20, 2022, with a request to submit the soft copy of the final abstract in camera-ready form by Oct 31, 2022. AAC-2022 will endeavor to give preference to papers that deal with new advancements, applications and developments in the aforesaid areas. All papers submitted for presentation in the Conference must be original and should not have been presented elsewhere. All papers will be subjected to review and decisions will be conveyed to the authors accordingly. Selected conference papers will be published in International/National Journals. *Procedure to publish the research papers will be communicated later (<http://aachnbgu.aaccrs.org/>).

Accommodation:

There are many hotels (including budget hotels) and lodges are available at Srinagar Garhwal. Please visit for accommodation (<https://aachnbgu.aaccrs.org/#accommodation>). Apart from this, the AAC-2022 organising committee will also arrange shared accommodation at the Garhwal Mondal Vikas Nigam and University Guest House against a minimum payment on a first come first serve basis. Interested delegates may send their request to: aachnbgu2018@gmail.com



REGISTRATION FEES

The following Conference registration fees* is payable by different categories of delegates:

Indian Delegates: Rs. 3500

Students: Rs. 2000

Foreign Delegates: USD 250

*Procedure to pay the registration fee will be communicated later on website (<https://aachnbgu.aaccrs.org/#registration>)

FIELD TRIP

A two-day visit to Shri Badrinath Ji Temple after the conference may be planned to display the different geographical features on the route. Badrinath (altitude 3133 m) is 200 kms from Srinagar and it takes around 8 hrs. by bus to reach there. Those who are interested in field trip are requested to indicate it on the registration form clearly and send an additional fee of 2000.00 per person towards the field trip (this includes transport, lodging and boarding cost). Interested delegates may send their request to: aachnbgu2018@gmail.com

IMPORTANT DATES

Abstract submission deadline	Oct 15, 2022
Abstract acceptance notification	Oct 20, 2022
Registration deadline	Oct 25, 2022
Conference dates	Nov 4-6, 2022

2nd International Conference

on

AEROSOLS, AIR QUALITY, AND CLIMATE CHANGE (AAC-2022) OVER HIMALAYAN REGION OF UTTARAKHAND

हिमालयी क्षेत्र उत्तराखण्ड के
एयरोसोल, वायु गुणवत्ता और जलवायु परिवर्तन
पर अन्तर्राष्ट्रीय संगोष्ठी



Organised by
Department of Physics and Internal
Quality Assurance Cell (IQAC)
HNB Garhwal University
(A Central University)
Srinagar Garhwal, Uttarakhand

4-6 November, 2022

Patron Vice Chancellor, HNB GARHWAL UNIVERSITY SRINAGAR (GARHWAL)

International & National Advisory Committee

Prof. Ajay K. Sood, Principal Scientific Adviser (PSA), Government of India
 Prof. Thomas Wagner, Head, Satellite Remote Sensing, Max Planck Institute for Chemistry, Mainz
 Dr. Steffen Berle, Scientist, Max Planck Institute for Chemistry, Mainz
 Dr. Rajan K. Chakrabarty, Department of ECE, Washington University
 Shri K. N. Vyas, Secretary, DAE & Chairman, AEC
 Dr. M. Ravichandran, Secretary, Ministry of Earth Sciences (MoES)
 Dr. Philip K. Hopke, Bayard D. Clarkson Distinguished Professor Emeritus, Clarkson University
 Dr. Srivari Chandrasekhar, Secretary, Department of Science & Technology (DST)
 Prof. Sandeep Verma, FNA, Secretary, SERB, DST, Government of India
 Dr. Maheshwar Rupakheti, Institute for Advanced Sustainability Studies, Potsdam, Germany
 Dr. Mrutyunjay Mohapatra, Director General of Meteorology, IMD, Government of India
 Dr. J. R. Bhatt, Adviser, Ministry of Environment, Forest and Climate Change, Government of India
 Dr. Pema Gyamtsho, Director General, Directorate, ICIMOD, Nepal
 Dr. R. Krishnan, Director, Indian Institute of Tropical Meteorology, Pune
 Prof. Mamidala Jagadeesh Kumar, Chairman, UGC
 Dr. Rajesh S. Gokhale, Director General, CSIR and Secretary DSIR
 Dr. Kalachand Sain, Director, Wadia Institute of Himalayan Geology, Dehradun
 Dr. Amit Kumar Patra, Director, NARL
 Dr. Rajesh Kumar, Research Applications Laboratory, NCAR, USA
 Dr. Ajit Kumar Mohanty, Director, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400094
 Shri S. Somanath, Chairman, Department of Space & ISRO, Government of India
 Prof. Santoshree Dhupluri Pandit, Vice Chancellor, Jawaharlal Nehru University, New Delhi, India
 Prof. Surekha Dangwal, Vice Chancellor, Doon University, Dehradun, Uttarakhand
 Dr. Akhilesh Gupta, Senior Adviser, Department of Science & Technology (DST)
 Prof. Om Prakash Singh Negi, Vice Chancellor, Uttarakhand Open University, Haldwani
 Dr. A. K. Shukla, Vice Chancellor, G. B. Pant University of Agriculture and Technology, Pantnagar, USN
 Dr. (Mrs.) B. K. SAPRA, HEAD OF DIVISION, Head, RP&AD, 107, CT&CRs, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400094
 Prof. J. P. Pachauri, Vice Chancellor, Himalayan University, Fatehpur Tanda, Jeevanwala, Dehradun
 Prof. Sunil Kumar Singh, Director, National Institute of Oceanography (NIO), Goa
 Prof. Sunil Nautiliyal, Director, G. B. Pant National Institute of Himalayan Environment, Almora
 Prof. Durgesh Pant, Director General, USC for Science and Technology, Vigyan Dham, Dehradun
 Dr. R. P. Singh, Director, IIRS & CSSTEAP, ISRO, Department of Space, Government of India, Dehradun
 Prof. Venugopal Achanta, Director, CSIR - National Physical Laboratory (NPL), India
 Dr. S. Unnikrishnan Nair, Director, Vikram Sarabhai Space Centre (VSSC), ISRO
 Prof. Tarique Mansoor, Vice Chancellor, AMU Aligarh
 Dr. Anil Bhardwaj, Director, Physical Research Laboratory, Ahmedabad
 Mr. Mirza Javed Beg, Director, NCPOR, Goa
 Dr. A. K. Mitra, Head, NCMRWF, Ministry of Earth Sciences, Noida
 Dr. K. Rajeev, Director, SPL
 Dr. B. S. Nagendra Parashar, Vice Chancellor, Himgiri Zee University, Dehradun, Uttarakhand
 Prof. D. Pallamraju, Chairman, Space & ASD, Physical Research Laboratory, Ahmedabad

Advisory Committee

Dr. Rajeev Kumar Mehanian, Scientist, SERB, New Delhi
 Prof. Bhawan Prakash Singh, Head, Department of Physics, AMU Aligarh
 Prof. Bal Chandra Yadav, Head, Department of Physics, BBAU Lucknow
 Dr. Furan Singh, Inter-University Accelerator Centre (IUAC), New Delhi, India
 Dr. Rajesh Kumar Mall, Dean & Head, IESD, Banaras Hindu University
 Dr. A. K. Kamra, INS, Senior Scientist, IITM Pune
 Dr. Rajendra P. Joshi, CEO, RI Instruments and Innovation India, Haldwani, Uttarakhand
 Prof. L. P. Purohit, Head, Department of Physics, Gurukul Kangri Vishwavidyalaya, Haridwar
 Prof. Brajesh C. Choudhary, Head, Department of Physics & Astrophysics, University of Delhi
 Prof. H. C. Chandola, DSB Campus, Kumaun University, Nainital
 Smt. Sandhya Venugopala, Additional Secretary, Department of Space, Antariksh Bhawan, Bengaluru
 Prof. Varun Sheel, Planetary Science Division, Physical Research Laboratory, Ahmedabad
 Prof. Beer Pal Singh, Head, Department of Physics, CCSU, Meerut
 Prof. Abhay Kumar Singh, Department of Physics, Institute of Science, BHU, Varanasi
 Dr. D. P. Uniyal, Joint Director (I/c), USCST, Vigyan Dham, Vigyan Sadan Block, Dehradun
 Prof. Dipankar Banerjee, Director, ARIES, Manora Peak, Nainital, Uttarakhand
 Prof. M. P. S. Bisht, Director, USAC, Department of Information & Science Technology
 Prof. Anita Rawat, Director, USERC, IST, Government of Uttarakhand
 Dr. Mahesh Kumar RS, PAMC-Atmospheric Sciences, MES, Prithvi Bhavan, New Delhi
 Dr. Jagvir Singh, Scientist, MES, Prithvi Bhavan, New Delhi
 Dr. Nisha Mendiratta, Head, CCP, Department of Science & Technology, Government of India
 Mrs. Richa Sharma, Additional Secretary, Ministry of Environment, FCC
 Mr. J. R. Bhatt, Scientist, CC, Ministry of Environment, Forest and Climate Change
 Dr. R. K. Chaturvedi, RO (I/c), UPCB, Government of Uttarakhand
 Dr. Piyush Raizada, Executive Director, DM & MC, Government of Uttarakhand
 Dr. Debashish Mitra, Group Head, Department of MASD, ISRO, Dehradun, Uttarakhand
 Prof. Kusum Arunachalam, Head, Doon University, Dehradun
 Dr. S. Suresh Babu, Head & Scientist SG, SPL, VSSC, Thiruvananthapuram
 Prof. Brijesh Kumar, School of Physical Sciences, JNU Delhi
 Prof. Kedar Singh, School of Physical Sciences, JNU Delhi
 Prof. Tridib Bandhopadhyay, SERI Kolkata
 Prof. Tamod Rudra, CIU, New Delhi
 Prof. Vijaya Nand Kala, Head, G. B. Pant IET, Pauri Garhwali
 Prof. Satyanarayana, Vice Chancellor, Global University, Bangalore
 Dr. Siddharth Singh, CSIR, Dhanbad, Jharkhand, India

INVITED SPEAKERS (Tentative List, Few Speakers Have Confirmed)

Dr. K. Krishna Moorthy, CAOS, IISc, Bengaluru
 Prof. R. Shankar, The Institute of Mathematical Sciences, Chennai
 Prof. S.N. Tripathi, IIT Kanpur
 Dr. (Mrs.) B. K. SAPRA, BARC Mumbai
 Dr. Devendra Singh, IITM Pune
 Prof. Shama Parvej, Pt. Ravi Shukla University, Raipur
 Prof. A. L. Ramamathan, JNU Delhi
 Prof. S. P. Sateesh, IISc Bengaluru
 Prof. R. K. Ganjoo, University of Jammu
 Prof. Manwendra Mukharjee, SINP, Calcutta
 Prof. Devarsh Chaudhary, IIT Kanpur
 Dr. P. D. Safai, IITM Pune
 Dr. Suresh Babu, VSSC Thiruvananthapuram
 Dr. Rajiv Pandey, ICFRE Dehradun
 Dr. V. K. Soni, IMD Delhi
 Dr. Neeraj Rastogi, PRL Ahmedabad
 Dr. S. N. Singh, NPL Delhi
 Dr. Pallavi Saxena, Department of Environmental Science, Hindu College, DU India
 Dr. Bartwal Kunwar Singh, RRCAT Indore
 Dr. Abhijit Chatterjee, Bose Institute, Darjeeling
 Dr. Filippo Giorgi, Head, Earth System Physics (ESP) Section, ICTP Italy
 Dr. Fred Kucharski, ESP Section, ICTP Italy
 Dr. Swagata Payra, Department of Physics, BIT Mesra
 Dr. Sachin Ghude, IITM Pune
 Dr. Ramesh Chandra, Department of Physics, DSB Campus, Kumaun University, Nainital
 Prof. Neeraj Rastogi, PRL Ahmedabad
 Prof. A. P. Dimri, School of Environmental Sciences, JNU Delhi
 Prof. Bhola Ram Gurjar, Department of Civil Engineering, IIT, Roorkee
 Dr. S. D. Pawar, IITM Pune
 Dr. J. C. Kunjui, G. B. Pant National Institute of Himalayan Environment, Almora
 Prof. Monjot Roy, Principal, Barrackpore Rastraguru Surendranath College, West Bengal
 Prof. Gowhar Bashir Vakil, IT, Zakura Campus, University of Kashmir
 Dr. Ravindra Nath Tiwari, Geo-Informatics, NIGMT, New Delhi
 Dr. D. M. Lal, IITM Pune

Technical Program Committee

Prof. T. C. Upadhyay, Convener, AAC-2022 & Head, Department of Physics, HNBGU
 Prof. S. C. Bhatt, Co-Convenor, Department of Physics, HNBGU
 Dr. Suresh Tiwari, Co-Convenor, IITM - New Delhi Branch, New Delhi
 Dr. Alok Sagar Gautam, Organising Secretary (AAC-2022)
 Prof. Manish Sharma, Himgiri Zee University, Dehradun
 Dr. Rajiv Pandey, Senior Scientist, ICFRE, Dehradun
 Dr. Narendra Singh, ARIES Nainital
 Dr. U. C. Dumka, ARIES Nainital
 Dr. Vimlesh Pant, IIT Delhi
 Dr. Vijay Kanawade, University of Hyderabad
 Dr. Surendra Pratap Singh, GDC Mainpuri
 Dr. Deepan Singh Bisht, IITM - New Delhi Branch, New Delhi
 Dr. Atul Kumar Srivastava, IITM - New Delhi Branch, New Delhi
 Dr. Kuldeep Baudh, CUI Ranchi
 Dr. Ranjit Singh, Department of Chemistry, DBIC, Agra
 Dr. S. P. Sati, Department of Environmental Science, Ranichauri, Tehri Garhwali
 Prof. Balram Ambade, Department of Chemistry, NIT Jamshedpur
 Dr. Vikram Singh, Director, IMD Dehradun
 Dr. Divya Prakash, Department of Civil Engineering Branch, Purnima University
 Dr. Charu Jhamaria, Department of Environmental Science, IIS University, Jaipur
 Dr. Pargi Bangotra, Sharda University, Greater Noida
 Dr. Ajay Kr. Srivastava, Department of Botany, St. Xavier's College, Ranchi
 Dr. Subhash Chandra Pokhrival, Government Post Graduate College, Rambag
 Dr. Ashwani Kumar Dubey, Department of Zoology, Shri Krishna University
 Dr. Yanglem Sharatchandra Khuman, IGNOU, New Delhi
 Dr. Ankit Tandon, Department of Environmental Sciences, CU Himachal Pradesh
 Dr. Shweta Yadav, Department of Environment Science, CU Jammu
 Dr. Rajendra S. Dhabka, NMPL, Department of Physics, IIT Delhi
 Prof. Divyendu Chakrabarty, PRL Ahmedabad
 Dr. M. V. Sunil Krishna, Department of Physics, IIT Roorkee
 Dr. Narendra Ojha, PRL Ahmedabad
 Dr. Rupesh Kumar, DBS (PG) College Dehradun
 Dr. Shani Tiwari, Scientist, NIO Goa
 Dr. Kavi Shankar Varshney, D. S. Degree College, Aligarh
 Dr. Devesh Sharma, Head, Department of Atmospheric Science, CU Rajasthan
 Prof. R. C. Paliwal, Principal, HVM PG College, Raisi, Haridwar
 Prof. G. Hemalatha, Head, KITS Coimbatore
 Dr. Sneha Gautam, KITS Coimbatore
 Dr. Ajay Tripathi, Department of Physics, Sikkim University, Gangtok
 Prof. Kalyan Bhuyan, Department of Physics, CAS, Dibrugarh University
 Dr. Binita Pathak, Centre for Atmospheric Studies, Dibrugarh University
 Dr. Om Prakash Nautiliyal, Scientist & AFO, USERC Dehradun
 Dr. Bhavotsh Sharma, Scientist, USERC Dehradun
 Dr. Vijay Sridhar, Doon University, Dehradun
 Dr. Ujjwal Kumar, Doon University, Dehradun
 Dr. Himani Sharma, Department of Physics, Doon University, Dehradun
 Dr. Akhilesh Kumar Mishra, NCMRWF, Ministry of Earth Sciences, Noida
 Dr. Navin Parihar, Associate Professor, EGRL, Tirunelveli
 Dr. Azaz Ahmed Wani, Head, Department of Zoology, GDC Doda J&K
 Dr. Nitu Yana, JSTR, Bhopal
 Dr. Manwendra Singh Khatri, Department of Physics, NIT Srinagar
 Prof. Archana Gupta, Department of Applied Physics, M.J.P. Rohilkhand University, Bareilly
 Dr. Vikram Singh, Department of Physics, Agra College, Agra
 Dr. A. K. Verma, Department of Zoology, Government PG College Syed Abad, Prayagraj
 Dr. Sarvan Kumar, VBSPU, Jaunpur, Uttar Pradesh

Local Organising Committee

Prof. R. C. Dimri, Dean, School of Sciences, HNBGU Srinagar; Prof. S. C. Bhatt, Dept. of Physics, HNBGU Srinagar; Prof. T. C. Upadhyay, Convener and Head, Dept. of Physics, HNBGU Srinagar; Prof. R. C. Sundriyal, Department of Forestry & Director, IQAC, HNBGU Srinagar; Prof. Atul Dhyan, Department of Commerce & President, IIC, HNBGU Srinagar; Dr. R. K. Maikhuri, Department of Environmental Science, HNBGU, Srinagar; Prof. N. S. Panwar, Engineering and Technology; Prof. P. D. Semalty, SRT Campus, Badshahithaul Tehri; Prof. R. C. Ramola, SRT Campus, Badshahithaul Tehri; Prof. A. A. Baurai, Director, SRT Campus, Badshahithaul Tehri; Prof. S. C. Gairola, BGR Campus Pauri; Prof. Arun Rawat, BGR Campus Pauri; Prof. Piyush Sinha, BGR Campus, Pauri; Prof. H. C. Nainwal, Department of Geology, HNBGU Srinagar; Prof. R. S. Negi, Department of Rural Technology, HNBGU Srinagar; Prof. Manish Uniyal, BGR Campus, Pauri; Prof. Sunil Kumar, BGR Campus, Pauri; Prof. Hemwati Nandan, Dept. of Physics, HNBGU, Srinagar; Dr. Shubhra Kala, Dept. of Physics, HNBGU Srinagar; Dr. Meera Rawat, Dept. of Physics, HNBGU Srinagar; Dr. Dilip Kumar Meena, SRT Campus, HNBGU Srinagar; Mr. Buddhi Ballabh Tripathi, Govt. PG College, Augustayamuni; Dr. Kuldeep Singh, Head, Dept. of Physics, SRT, New Tehri, Dr. Vijnendra Lingwal, Dept. of Physics, Rishikesh; Dr. Tushar Kantri, Department of Physics, Govt. PG College, Gopeshwar; Dr. Kuldeep Singh, Department of Physics, Govt. PG College, New Tehri; Dr. Gurupad Singh Gusain, Department of Physics, Government PG College, New Tehri; Dr. Ajay Bahuguna, Department of Physics, Govt. PG College, New Tehri; Prof. Veena Joshi, Department of Chemistry, SRT Campus, Badshahithaul, Tehri; Er. S. Tarafdar, Scientist E&SIC, Garhwali Regional Centre, G. B. Pant, Upper Bhakatara, Srinagar; Dr. Rahul Kaushik, Harsh Vidya Mandir PG College, Raisi, Haridwar; Dr. Mahendra Pratap Singh Rana, Department of Physics, GDC PG College; Dr. Kireet Semwal, G.B. Pant Institute of Engineering & Technology, Pauri Garhwali; Dr. Indira Karakoti, Scientist, Wadia Institute of Himalayan Geology, Dehradun; Dr. Dinesh Saty, Department of Physics, Govt. PG College, Gopeshwar; Dr. Sudipta Kandari, Department of Physics, Govt. PG College, Gopeshwar; Dr. Vinod Rawat, Govt. PG College, Dakpathar; Dr. Kunwar Singh, GDC PG College Doiwala; Dr. Asaheesh Raturi, Dolphin PG Institute of Biomedical & Natural Sciences, Dehradun; Dr. Arvind Kumar, GDC PG College, Uttarakashi; Dr. Ravi, GDC PG College, Kotdwara; Dr. Vandita Srivastava, Department of Physics, Kanahiyala Lal, D.A.V. PG College, Roorkee; Dr. Alok Kandari, GDC PG College, Pathaini; Dr. Mahima, SMJN PG College, Haridwar; Dr. Pawan Singh, Himalaya University, Doiwala, Dehradun; Dr. Poonam Semwal, Dept. of Physics, Doon University, Dehradun; Dr. Amar Deep, Dept. of Physics, Chinmaya Degree College, Haridwar; Dr. Muzaffar Iqbal Khan, Dept. of Physics, Baba Ghulam Shah Badshah University, Rajouri, J&K; Dr. Manyank Joshi, HNBGU Srinagar

Atmospheric aerosols are the solid and liquid particles suspended in the air. Most of these aerosol particles are produced by natural (wind-borne dust, sea spray, volcanic debris, biogenic aerosols) as well as anthropogenic (industrial emission, agricultural activities, fossil fuel combustion, waste and biomass burning) sources. Aerosols have a significant impact on regional to global climate and contribute to the change in air quality, cloud formation mechanism, atmospheric chemistry, greenhouse effect, and the Earth's radiation budget. Aerosols can also affect human health by causing chronic respiratory diseases and asthma. During the last few decades, the anthropogenic emission of aerosols have been increased significantly due to vehicular emission, urbanization and industrialization. Several national and international studies have reported the increased amount of air pollution over the Indo Gangetic Plain (IGP) regions and Brahmaputra valley regions of India. During winters, the whole northern part of India is facing heavy smog every year. It is caused by various factors including stubble burning, industrialization and vehicular emission in nearby regions and states. Recently, according to a World Health Organization survey, the air quality of Delhi is the worst of any major city in the world.

Transportation of the atmospheric pollutants over the high-altitude locations of the Himalayas with air masses from the southwest direction was also reported during the pre-monsoon and winter seasons. Which reaches all the way up to Nepal and Tibet through the valley regions. Affects the weather and climate conditions over the sensitive regions of the Himalaya. Apart from these increasing tourism activities, urbanization and events of forest fire majorly contribute as the local emission sources of aerosols in Uttarakhand.

In view of the above challenges, the Hemvati Nandan Bahuguna Garhwali University (HNBGU) Srinagar-Pauri Garhwali, Uttarakhand is going to organize an International conference on "Aerosols, Air Quality, and Climate Change (AAC-2022) on Himalayan Region of Uttarakhand" in the Department of Physics, School of Science, HNBGU, Srinagar (Garhwali), India in collaboration with IITM Pune on 4-6 November 2022 for mitigating it through after interaction and adoption new techniques.

The main objectives of the conference the above-mentioned conference are:

- ◆ Discussion on the categorization of possible aerosol sources, their characteristics and their impact on the weather and climatic conditions.
- ◆ Discussion on the possible new active monitoring techniques, and innovative use of existing instrumentation to study new or established issues in aerosol science.
- ◆ Development of a regulatory framework to study atmospheric aerosols and its climatic impact over the Himalayan region with the collaboration of different institutes and agencies gathered in the conference.
- ◆ Discussion on the possible approach to develop the legislation and policy for air pollution control and mitigation with the involvement of government and responsible authorities.

In this conference, the total participant will be more than 500 including thirty from HNBGU, Srinagar and around fifty from National research organizations and universities (IITs, IISER, IITM, PRL, NPL, Bose Institute, JNU, BHU, and Indian Universities).

THE UNIVERSITY

Established under the U.P. State Universities Act (1973), then named as Garhwali University was founded in December 1973. It was rechristened in 1989 as Hemvati Nandan Bahuguna Garhwali University. Today this University is amongst the ten largest University of the country with 3 campuses and more than 180 affiliating colleges and institutes (both state run and self-financed). Since its inception, despite the limited resources and various geographical constraints, the University has charted a course of growth and development, to gain recognition as one of the better universities in India. As a mark of appreciation for its academic achievements, HNB Garhwali University was upgraded as a Central University under the Central Universities Act, 2009. The University is located at Srinagar (105 kms from Rishikesh) on the banks of river Alaknanda, one of the major tributaries of river Ganga. The serene environment presents a near perfect setting for intellectual pursuits.

DEPARTMENT OF PHYSICS

Physics department was established in the year 1962 as one of the Science departments of Birla Government Degree College, Srinagar (Garhwali). This was upgraded to Post Graduate level in the year 1972. The department in Pauri and Tehri Campus was established in 1972 and 1973 respectively with an undergraduate course in Physics. In 1992 post-graduate course was started with specialization in electronics at Pauri campus whereas it was started at Tehri campus in 1990. University took over the Department of Physics as Centre for under graduate, Post graduate teaching and research activities in Physics. Research in Solid state Physics, Mathematical Physics and Spectroscopy began with the establishment of Garhwali University. The Department has been identified under DST-FIST programme for strengthening the research facilities and established a Computer Lab. Various research schemes under DST, UGC, MNEs, UCOST etc. have been completed in the Department.

Faculty members of the department are actively engaged in research in the different fields namely (a) Condensed Matter Physics/Materials Science, Experimental Studies preparation, characterization and measurements ferroelectric systems/Poly crystals, ultrasonic investigations of Polymers and liquids; Theoretical studies of dielectric and ferroelectric properties of crystals; Theoretical studies of high temperature superconductors; theoretical studies of thermal properties of ferroelectrics, (b) Fluorescence spectroscopy-energy transfer, Solar Photothermal and Photovoltaic devices, (c) Nuclear and Particle Physics/Astroparticle Physics- Theoretical studies of monopoles, Gauge theory, Supersymmetry and cosmology etc. and (d) Mathematical Physics-Theoretical studies and Simulation techniques (e) Atmospheric Physics and Space Science. The department is well equipped for research work with instruments like Fluorescence Spectrograph (Perkin Elmer), UV and Visible Spectroscope (Perkin Elmer), Ultrasonic interferometer, High Temperature Furnace, Mossbauer Effect, Sulphur dioxide analyser, Automatic weather station and Gamma ray spectrometer.

CONVENER

Prof. T. C. Upadhyay
 Department of Physics
 H.N.B. Garhwali University (A Central University)
 Srinagar Garhwali - 246174, Uttarakhand
 E-mail: aachnbgu2018@gmail.com
 Mobile : +917060580991, Phone: 01346-252331

CO-CONVENOR

Prof. S. C. Bhatt
 Department of Physics
 H.N.B. Garhwali University (A Central University)
 Srinagar Garhwali - 246174, Uttarakhand
 E-mail: aachnbgu2018@gmail.com
 Mobile : +91911369805, Phone: 01346-252331

CO-CONVENOR

Dr. Suresh Tiwari,
 Delhi Unit, Rossby Fellow
 Indian Institute of Tropical Meteorology,
 Pune, New Delhi Branch, New Delhi, India
 Mobile : +918826176330

ORGANISING SECRETARY

Dr. Alok Sagar Gautam
 Department of Physics
 H.N.B. Garhwali University (A Central University)
 Srinagar Garhwali - 246174, Uttarakhand
 E-mail: aachnbgu2018@gmail.com, phyalok@gmail.com
 Mobile : +91997138763, Phone: 01346-252331