

Professor Sagar Maji



Prof S. Maji is a graduate in Mechanical Engineering from Delhi College of Engineering (now known as Delhi Technological University) and M.Tech in Thermal Engineering from IIT, Delhi. He has obtained PhD Degree from Delhi University in the area of, "Use of Alternative Fuels in Spark Ignition Engines". He has worked as Scientist in Indian Institute of Petroleum, a research lab of CSIR and also as Professor of Delhi College of Engineering. His association with Delhi Institute of Tool Engineering (DITE), New Delhi began on 14th March, 2014 when he joined as Director-cum-Principal (Additional Charge).

Curriculum Vitae

Present Assignments:

Principal, GB Pant Engineering College

Govt. of NCT of Delhi, New Delhi

Director, Delhi Institute of Tool Engineering (**Additional Charge**)

Govt. of NCT of Delhi, New Delhi

Previous Administrative Experiences

Dean (IRD), DTU From Oct 2010 to Dec 2013

Professor I/C (Alumni Affairs), DTU From Jan 2011 to Feb 2014

HOD (Mech), Delhi University From Oct 2006 to Oct 2009

HOD (Mech, Prod & Indl Engineering) DTU From May 2005 to April 2010

Education

Ph. D, Delhi University, (Mechanical Engineering), 2002

M. Tech, IIT-Delhi, 1990

B. Sc Engineering (Mechanical), Delhi University, 1981

Employment History	<p>Scientist-B, <i>Indian Institute of Petroleum, Dehradun</i> <i>October-1981 to October 1987</i></p> <p>Scientist-C, <i>Indian Institute of Petroleum, Dehradun</i> <i>October-1987 to January1992</i></p> <p>Associate Professor, <i>Delhi College of Engineering</i> <i>January 1992 to December 2002</i></p> <p>Professor <i>Delhi College of Engineering (Now DTU)</i> <i>December 2002 – March, 2014</i></p> <p>Principal <i>G. B. Pant Engineering College : 7.3.2014 - till date</i></p> <p>Director <i>(Additional Charge)</i> <i>Delhi Institute of Tool Engineering : 7.3.2014 – till date</i></p> <p>Total experience : <u>10 yrs</u> in research & <u>23 yrs</u> teaching, research & administration</p>
Administrative Experience	<p>HOD (Mechanical Engineering) Delhi University <i>From October 2006 to October 2009</i></p> <p>HOD (Mechanical and Prod. & Industrial Engineering), Delhi College of Engineering <i>From May 2005 to June 2009</i></p> <p>HOD (Mechanical Engineering) Delhi Technological University <i>From July 2009 to April 2010</i></p> <p>HOD (Production & Industrial Engineering) Delhi Technological University <i>From July 2009 to April 2010</i></p> <p>HOD (Automobile Engineering) Delhi Technological University <i>From July 2009 to April 2010</i></p> <p>Professor I/C (Alumni Affairs) Delhi Technological University <i>From Feb 2010 to Till date</i></p> <p>Dean (IRD) Delhi Technological University <i>From Sep 2010 to Till date</i></p>

	<p>HOD (Department of Biotechnology) Delhi Technological University <i>From Sep 2010 to Till date</i></p> <p>Principal G. B. Pant Engineering College : 7.3.2014 - till date</p> <p>Director (<i>Additional Charge</i>) Delhi Institute of Tool Engineering : 14.3.2014 – till date</p>
<p><i>Other Important Administrative Responsibilities</i></p>	<p>i) <i>Member, Board of Management (BOM), DTU</i></p> <p>ii) <i>Chairman, Department Research Committee (DRC), of the Departments of Mechanical Engineering, P&I Engineering, Automobile Engineering and Bio-Tech, DTU</i></p> <p>iii) <i>Chairman, Board of Studies (BOS), of the Departments of Mechanical Engineering, P&I Engineering, Automobile Engineering and Bio-Tech, DTU</i></p> <p>iv) <i>Member Board of Research Studies (BRS), Faculty of Technology, DU</i></p> <p>v) <i>Member Academic Council (AC), DU</i></p>
<p>Awards and Research Fellowships</p>	<ul style="list-style-type: none"> • Received 2001 Ralph R. Teetor Educational Award in “Recognition of Significant Contribution to Teaching, Research and Student Development in the area of Automotive Engineering”. (Awarded by SAE International, USA). • 2014 Guru Award conferred by SAEINDIA Foundation on 30th July, 2014 at New Delhi • Part of Ph D work under my guidance honored with National Award on 3/12/2009 by Govt. of India, Ministry of Social Justice and Empowerment in Public recognition for “Development of New Cost Effective Product for Manufacture “aimed at improving life for persons with disabilities. • Invited by Michelin to deliver lecture to German Engineering students in the event of Challenge Bibendum- 2011, Berlin, Germany. <p><u>Research Fellowships</u></p> <p>a) <i>UNDP fellowships in the area of “Alternative Fuels in 2-Stroke Engines” at University of Zwickau, Germany</i></p>

	b) SERC Fellowships in the area of “Fuel injection Systems for Spark Ignition Engines” at IIT-Delhi
Membership in Professional Societies	<ol style="list-style-type: none"> 1. Member Society of Automotive Engineers (SAE), Membership no. – 6104444061 2. Member, Fire & Security Association of India (FSAI)
Scholarships	West Bengal Government – MCM scholarship From 1976 – 1981
Research Projects	<p>Research/Consultancy projects Successfully completed</p> <ol style="list-style-type: none"> i) <u>Use of methanol as Alternate Fuel in 2-Stroke SI Engines.</u> Under this research project a 2-stroke engine was modified to run on neat methanol. Performance and emission characteristics were studied extensively with methanol engine. Lubrication and other field performance of methanol scooters were also investigated. (Project was sponsored by UNDP) – Completed ii) <u>Study of Mechanism of Formation of Hydrocarbon Emissions in 2-Stroke SI Engines.</u> Under this research project concentration of hydrocarbons at different crank angles during expansion period and during scavenging period were analyzed in 2-stroke engines. (Project was sponsored by UNDP) – Completed iii) <u>Improvement of Fuel Consumption and Exhaust Emissions in Small 2-Stroke SI Engines.</u> Under this research project a dual intake system designed and tested for reduction of fuel consumptions and exhaust emissions in 2-stroke engines. (Project was sponsored by UNDP) – Completed iv) <u>Scavenging and Air Flow Analysis of 2-Stroke Engine Cylinder.</u> Under this research project the flow velocity of air inside a 2-stroke engine cylinder during scavenging at different crank angles were studied to understand the scavenging. (Project was sponsored by SIL) – Completed v) <u>Performance and Emission Characteristics of Gasoline additives in 4-Stroke Spark Ignited Engines.</u> Under this consultancy work gasoline additives were evaluated for power, fuel consumption, and exhaust emissions of CO, HC and NOx. This project was sponsored by NAVIR International, New Delhi. – Completed

	<p>vi) <u>Fuel Introduction System of 2-Stroke Engines.</u> Under this consultancy work a propane retrofit kit modified and tested for power output, fuel economy and exhaust emissions. This project was sponsored by G&T Resources Worldwide, New Delhi. – Completed</p> <p>vii) <u>Evaluation and repair of air cooling system</u> of CBSE HQ. Building, Preet Vihar, Delhi-110092. – Completed</p> <p>viii) <u>Development of small capacity new generation Bio-Diesel Reactor for waste cooking Oil</u> Under this work, a reactor was developed using hydrodynamic cavitation technique. Performance evaluation is being carried out. The Project is sponsored by Forest and Environment Department, Govt. of NCT of Delhi – On Going</p> <p>ix) <u>Development of Hybrid Vehicle</u> Under this project a Maruti Vehicle with 1300 cc engine was downsized to 1000 cc engine and a 'plug-in-hybrid; was developed. Optimization is being carried out. The Project is sponsored by IOCL. – On Going</p>
Ph. D Guided	<ol style="list-style-type: none"> 1. Thermo hydrodynamic Analysis of Lubricated Piston Rings of Internal Combustion Engine 2. Design and Development of a new Generation Biodiesel Reactor and use of produced Biodiesel in a CI Engine Performance, Emission and Combustion Characteristics 3. Design & Development of Water Mist Nozzles and their Characterization for Fire Suppression Applications 4. Artificial Intelligence to an above Knee Prosthesis 5. Gasification of Municipal Solid Waste 6. Studies of Performance and Emissions Characteristics of Direct Injection Compression Ignition Engine Dual Fueled with Diesel and CNG 7. Studies on Energy Efficiency in Industrial Clusters
Ph. D in Progress	<ol style="list-style-type: none"> 1. Investigations on Modeling Transportation Noise and Passive Control Measures and its Abatement 2. Development of Nano material Based Non-invasive Biosensor for Oral Cancer Detection 3. Studies on Force Transducers for Improving their Accuracies

	4. Production of Biodiesel and its Utilization in Compression Ignition Engines
Leadership Development	Position of responsibility in International Professional Bodies: <ol style="list-style-type: none"> 1. Member of SAE – India Publication Board 2. Member SAE-India, Engineering Education & Students Board 3. Vice-Chairman (Publications)-SAE-India, NIS 4. Member Technical Committee SAE India, NIS 5. Faculty Advisor – SAE Student Chapter – DCE 6. Member, SAE – India Foundation 7. Faculty Advisor – SAE International Students chapter
PG & UG Guidance	No. of PG Guidance = 42 No. of UG Guidance = 55
Organization of International Conference	<u>International Conferences organized with Professional Societies</u> <ol style="list-style-type: none"> 1. “SAE 2000 India Mobility Conference” - First International SAE Conference on Mobility, New Delhi (February, 2000). 2. “SAE 2004 India Mobility Conference” - Third International SAE Conference on Mobility, New Delhi (January, 2004) 3. “SAE 2008 India Mobility Conference” - Fifth International SAE Conference on Mobility, New Delhi (January, 2008) 4. “SAE 2012 India Mobility Conference” - Seventh International SAE Conference on Mobility, New Delhi (January, 2012)
Institutional Development	<ol style="list-style-type: none"> I. Member Secretary, Bio-Safety Committee II. Member Secretary, Ethical Committee III. Coordinator UGC Visit for 12-B recognition IV. Coordinator, NBA Accreditation Visit V. Head, NTMICS (AICTE Project), Nodal Centre VI. Professor In-charge, Global Alumni Conclave, 2012 VII. Chairman of large number of committees VIII. SAE International Colligate Chapter was founded by the undersigned first time in India

	<ul style="list-style-type: none"> IX. Organized MACH (Industry Institute Interaction Program) every year since 1995 X. Faculty Advisor of many International Competitive Projects XI. Modified and updated the course curriculum XII. of IC Engines and Thermal Engineering XIII. Design of Curriculum of DTU
Academic & Professional activities outside University	<ul style="list-style-type: none"> I. Key Note Addresses in many conferences II. Session Chairman of National and International Conferences III. Reviewers of Journal Papers IV. Ph. D Examiner V. Project Monitoring Committee Member of DST and CSIR VI. Expert Lecture in National and International Conferences VII. Member of the Expert Committee of NTPC, NATRIP, BIS, IP University, ISM, NIT-Kurukshetra, YMCA, MNES, IUAC etc. etc. VIII. Expert Advisor for Recruitment for UPSC, CSIR and DRDO IX. Designed Curriculum for IGNOU and BTE X. Design of study materials for IGNOU
Publications	Attached as Annexure

Annexure

Publications (Research Papers)

1. *“Abnormal Combustion in a 2-Stroke Spark Ignited Methanol Engine”*, **S. Maji**, M. Abraham, B.P. Pundir & S. Radzimirski, SAE Transactions, Paper No. 880174, 1988.
2. *“Analysis of Total and Individual Hydrocarbon Components in the Exhaust and Inside the Cylinder of a 2-Stroke Engine”*, **S. Maji**, M. Saxena, H. B. Mathur and S. D. Bhagat, SAE (SP-910) paper No. 920728, 1992.
3. *“Some Experimental Studies of Lubricants in a 2-Stroke Methanol Engine”*, B.R. Chadda, M. Gupta, **S. Maji** and S. Singhal, Journal of Synthetic. Lubrication, U.K.-1992.
4. *“Vehicular Pollution in Delhi and its Control in Line with Euro-Norms”*, **S. Maji**, MAPAN-Journal of Metrology Society of India, Vol. XV, No. -1, January, 2000.
5. *“A Single Cylinder Study of Power, Fuel Consumption and Exhaust Emissions with Ethanol”*, **S. Maji**, M.K.G. Babu, N. Gupta and P.B. Sharma, SAE Paper No. 2001-28-0029, 2001.
6. *“Comparison of Emissions and Fuel Consumption from CNG and Gasoline Fueled Vehicles- Effect of Ignition timing”*, **S. Maji**, S. Ranjan and P. B. Sharma, SAE Paper No. 2001-01-1432, 2000.
7. *“A Methanol Operated Small 2-Stroke SI Engine”*, **S. Maji**, B.P. Pundir, S. Radzimirski, VIII, International Symp. on Alcohol Fuels, Paris Oct. 19-23, 1986.
8. *“The Effect of Methanol Fuelling in 2-Stroke Engine Lubrication”* M. Gupta, **S.Maji**, P.C. Nautiyal and S. Singhal, VIII International; Symp on Alcohol Fuels, Paris, Oct. 19-23,1986.
9. *“Field Performance of Two Stroke Engine Powered Scooters on Methanol Fuel”*, J. Sharma, **S. Maji**, M. Abraham and S. Singhal, IX proc. International Symp. on Alcohol Fuels, Tokyo, Nov. 24-27, 1988.
10. *“A Comparative Study of Performance and Emission Characteristics of CNG and Gasoline on a Single Cylinder S. I. Engine”*, **S. Maji**, P. B. Sharma and M.K.G. Babu, January 16-18, 2004, New Delhi, India. SAE Paper no. 2004-28-0038
11. *“Vehicular Emission Control Strategies for the Capital City of Delhi”*, Amit Pal, **S. Maji**, O.P. Sharma and M.K.G. Babu, India, January 16-18, 2004, SAE Paper no 2004-28-0051

12. *"Methanol Fuelling of a Small 2-Stroke Spark Ignited Engine"*, **S. Maji**, B.P. Pundir & S. Radziriski, Proc. of the IX National Conference on IC Engines & Combustion, Dehradun (India) 19-22, Nov. 1985.
13. *"Methanol as a Fuel in Two Stroke Engines, Mathew Abraham"*, S. K. Singhal, **S. Maji** and B.P. Pundir, Proc. national Workshop on Alternative Fuel for Spark Ignited Engines, Dehradun 19-20 Nov. 1984.
14. *"Some Experiences on the Operation of Scooter and Moped Engine using Methanol"*, **S. Maji**, Mathew Abraham & B. P. Pundir, Proc. of the X National Conference on IC Engines & Combustion, Rajkot (India) December 1987.
15. *"Cleanliness and Wear of a Methanol 2-Stroke Engine"*, **S. Maji** and M. Gupta, Proceedings of the National Programme on Tribology: Industrial Problems & prospects, New Delhi, January 24-25, 1992.
16. *"Field Trial of Neat Methanol Scooter"*, J. Sharma, **S. Maji**, ML Sharma & Mathew Abraham, Proc. of the X national Conference on IC Engines & Combustion, Rajkot (India) December 1987.
17. *"Reduction in Emission Levels Using Compressed natural Gas in Spark Ignition Engines"*, **S. Maji** and P. B. Sharma, National Conference on Modernization of Automobile industry with its impact on Environment, New Delhi, 19-20, 1996.
18. *"Compressed Natural Gas as Spark as Ignition Engine Fuel"*, **S. Maji**, P. B. Sharma, Proc. of Power India 1995, page 30, April 26-27, 1995, New Delhi.
19. *"Performance and Emission Characteristics of Ethanol-Gasoline Blends in a Single Cylinder Spark ignition Engine"*, **S. Maji**, M.K.G.Babu and P.B.Sharma, XVIIth National Conf. on IC Engines & Combustion, Surat, Dec. 18-20, 2001.
20. *"Fuel Injection of 2-Stroke SI Engines: An Approach to improve Fuel Consumption and Hydrocarbon Emissions"*, **S. Maji**, M.K.G. Babu and P. B. Sharma, X ISME Conference on Mechanical Engineering, New Delhi, Dec. 9-11, 1996.

Publications after completion of Ph. D

21. *"Education in Automobile Engineering and Requirements of Automobile Engineers in India"*, **S. Maji** & P. B. Sharma, proceedings of National Seminar on Technical Manpower Development and Utilization, Rourkela, April 15-16, 2004.
22. *"Growth of Technical Education in Delhi and a Comparison of Present Facilities with Other Metros in India"*, **S. Maji** & P. B. Sharma, proceedings of National Seminar on Technical Manpower Development and Utilization, Rourkela, April 15-16, 2004.

23. *"State-of –Art Report on Technical Education in the State of Haryana"*, **S. Maji**, proceedings of National Seminar on Technical Manpower Development and Utilization, Rourkela, April 15-16, 2004.
24. *"Perspective Technical Education in NCT of Delhi in the Context of a Dynamic Globalized Environment"*, **S. Maji** & P. B. Sharma, proceedings of National Seminar on Technical Manpower Planning in India Issues and Concerns, September 5-7, 2004, Hyderabad
25. *"Liquid Nitrogen Powered Prime mover"*, S. A. Krishnan, **S. Maji**, R. S. Meena, S. Babu and T. S. Datta, Indian journal of Cryogenics, ISSN 0379-0479, vol. 2, Feb. 2005.
26. *"Finite Element analysis of Prime Components of an Internal Combustion Engine"*, **S. Maji**, Murgan Chandra Kumar P., proceedings of 14th ISME International Conference on Mechanical Engineering in Knowledge Age, Delhi College of Engineering, 12-14 December 2005.
27. *"Studies on Suspension of Diffusion Flame with Fine Mist in Modified Cup Burner Apparatus"*, Suresh Lal, **S. Maji**, J.C. Kapoor, proceedings of 14th ISME International Conference on Mechanical Engineering in Knowledge Age, Delhi College of Engineering, 12-14 December 2005.
28. *"Supermileage Vehicle Project"*, Team Endeavour, **S. Maji**, Dr. Samsher, proceedings of International Conference on Mechanical Engineering in Knowledge Age, Delhi College of Engineering, 12-14 December 2005.
29. *"Measurement of rspm Bounded Phenanthrene Path in the Ambient Air at a sensitive site in Delhi"*, V.N. Mathur, **S. Maji**, proceedings of 14th ISME International Conference on Mechanical Engineering in Knowledge Age, Delhi College of Engineering, 12-14 December 2005.
30. *"Biodiesel as an Alternative Fuel in CI Engines: Performance and Emission Studies on a Single Cylinder Engine"*, **S. Maji**, S. S. Kachhwaha, Jai Prakash, presented on March 8, 2006 at ISFL-2006.
31. *"Performance and Emission Studies on a Single Cylinder Biodiesel Engine"*, **S. Maji**, S. S. Kachhwa, Jai Prakash, proceedings on National Conference on Environmental Pollution Control for Sustainable Development on 27th-28th March, 2006.
32. *"Characterization of An Externally Mixed Air-Assisted Atomizer"*, Suresh Lal, A. Kushari, J. C. Kapoor, **S. Maji**, proceedings of ICLASS 2006, International Congress on Liquid Atomizer and Spraying System, Kyoto, Japan 27August to 1 September 2006.
33. *"Incorporating Fuel Flexibility in C I Engines: an Innovative Approach to Improve the Economy And Environment"*, by Amit Pal, **S.Maji**, O.P. Sharma & M.K.G.Babu accepted for presentation and publication in Glogift-06, An International Conference on Management of Innovation, Technology transfer & Flexibility at

34. *"Optimization of the Aerodynamics Design of Super Mileage Vehicle"*, **S. Maji** and Himanshu Almadi, SAE Paper no. 6 2007-01-0901.
35. *"Development of Aerodynamics of a Super Mileage Vehicle"*, **S. Maji** and Himanshu Almadi, SAE Paper no. 6SAE Paper no. 6 2007-26-060, Proceedings of SIAT, Pune, India, 17-20 January, 2007.
36. *"Performance of Internally Mixed Twin Fluid Mist Generator"*, Suresh Lal, Meenakshi Gupta, Kushari, J.C. Kapoor and **S. Maji**, submitted to International Journal of Atomization and Spray, October , 2008.
37. *"Suppression of Diffusion Flames with Water Mist in Enclosed Spaces"*, Suresh Lal, Meenakshi Gupta, A. Kushari, J.C. Kapoor, **S. Maji**, submitted to International Journal of Fire Safety Journal July 2008.
38. *"Modelling of Siphon Fed Externally Mixed Air Blast Atomizer"*, Suresh Lal, Meenakshi Gupta, A. Kushari, J.C. Kapoor, **S. Maji**, International Journal of Atomization and Spray.
39. *"Impact of CNG on Delhi's Vehicular Pollution"* presented by Amit pal, **S. Maji**, O.P.Sharma, National Seminar on "The Status of Vehicular Pollution in Delhi after the Court's Directions & An Assessment", organized at Delhi College of Engineering, Delhi, Feb 25, 2008.
40. *"Advantages and Limitations of CNG as Transportation Fuel in Delhi"* by Amit Pal, J.D. Sharma, **S. Maji**, O.P.Sharma, presented at SIAM "TECHNIX-08" GLOBAL Automotive Conference held at IHC, Delhi, April 28-30, 2008.
41. *"Optimizations of Vehicular Emissions in Delhi"*, by Amit Pal, **S. Maji**, O. P. Sharma, Globgift-08, International Conference, held at Stevens Institute of Technology, Hoboken, NJ, USA, pp. 889-897, June 14-16, 2008.
42. *"Vehicular Emissions: Estimation, Future Prediction and Control Strategies for the City of Delhi"*, Amit Pal, **S. Maji**, O.P. Sharma and M.K.G. Babu, International Journal of Applied Engineering Research Vol. 4, No.7,2009, pages 1391 & 1411.
43. *"Bio-Diesel Production Through Hydrodynamic Cavitation and Performance Testing in Compression Ignition Engines"* Amit Pal, Ashish Verma, S.S. Kachhwaha and **S. Maji**, Journal of Renewable Energy, Volume 35, No.3, Pages 619 & 624.
45. *"A Cad Based Dynamic Analysis Approach to AK Prosthesis Design"* Manoj Soni, **S. Maji** , Sneha Anand and U. Singh, International Journal of Vibroengineering, June 2010, Volume 12, Issue 2
46. *"Modelling an Above Knee Prosthesis- A kinematics Approach"* Manoj Soni, **S. Maji** and Sneha Anand, International Journal of Vibroengineering, June 2010, Volume 12, Issue 2
46. *"Suppression of Diffusion Flames in Cup Burner Apparatus"*, Suresh Lal , A. Kushari, J.C Kapoor, **S.Maji**, International Journals of Applied Engineering Research, ISSN, 0973-4562, Volume 4, Number 12 (2009), PP.2573-2586.

47. *“Performance of Internally Mixed Twin Fluid Mist Generator”*, Suresh Lal, Meenakshi Gupta, A. Kushari, J.C.Kapoor and **S.Maji**, International Journals of Experimental Thermal and Fluid Sciences-Elsevier publication, accepted 15 March 2010.
48. *“Modelling of Siphon Fed Externally Mixed Air Blast Atomizer”*, Suresh Lal, A. Kushari, J.C.Kapoor and **S.Maji**, International Journals of Dynamics of Fluids, ISSN 0973-1784, Volume 6, Number 1 (2010), pp.25-40.
50. *“A case Study of Using CNG as a Transportation Fuel in Delhi”*, Amit Pal, **S. Maji**, O.P.Sharma, International Journals of Applied Environmental Sciences (IJAEAS), ISSN 0973-607.
51. *“Thumba (citrullus colocyntis) seed oil: A sustainable source of renewable energy for Biodiesel Production”*, Amit Pal, S.S. Kachhwaha, **S.Maji** & M.K.G. Babu, Journal of Scientific and Industrial Research India, vol. 69, May 2010, pp. 384-389.
52. *“An Experimental Investigation of Ethanol-Gasoline blends in a SI Engine”*, Amit Pal, Sulabh Dhingra, R.S. Mishra, **S. Maji**, & M. K. G. Babu, International Conference on Biofuels, Delhi Technological University, Delhi, Jan 18-19, 2010.
53. *“Recent Developments in Biodiesel: Part I – Biodiesel Production Technology”*, Amit Pal, S. S. Kachhwaha, **S. Maji**, P. B. Sharma, International Conference on Biofuels, Delhi Technological University, Delhi, Jan 18-19, 2010.
54. *“Recent Developments in Biodiesel: Part II – Biodiesel Engine Performance and Emissions Studies”*, Amit Pal, S. S. Kachhwaha, **S. Maji**, P. B. Sharma, International Conference on Biofuels, Delhi Technological University, Delhi, Jan 18-19, 2010.
55. *“Advanced Techniques for Biodiesel Production and Engine Performance Testing”*, Amit Pal, S. S. Kachhwaha, **S. Maji**, presented and published at National Conference on Energy Management at Engineering College, Bikaner, Rajasthan, November, 20-21, 2009, pp 28-37
56. *“Effect of Inlet Swirl on the Flow Behavior Inside Annular Diffuser,”* Manoj Kumar, B.B. Arora, Subhashish Maji and **S. Maji**, International Journal of Dynamics of Fluids. Volume 7, Number 2(2011), pp181-188
57. *“Experimental investigations on sound insulation through single, double and triple window glazing for traffic noise abatement”*, Naveen Garg, Omkar Sharma & **S.Maji**, Journal of Scientific and Industrial research, Vol.78, June 2011, pp.471-478
58. *“Noise impact assessment of mass rapid transit systems in Delhi city”*, Naveen Garg, Omkar Sharma & **S. Maji**, Indian Journal of Pure and applied Physics, Vol.49, April 2011, pp.257-262
59. *“Design considerations of building elements for traffic and aircraft noise abatement”*, Naveen Garg, Omkar Sharma & **S.Maji**, Indian Journal of Pure and Applied Physics, Vol 49, July 2011, pp.437-450
60. *“Passive noise control measures for traffic noise abatement in Delhi, India”*, Naveen Garg, Omkar Sharma, V Mohanan & Sagar Maji, Journal of Scientific and Industrial Research, Vol. 71, March 2012, pp. 226-234

61. *"Design Consideration for Enhancing Sound Insulation Characteristics of Window Glazing for Traffic Noise Abatement."* Naveen Garg, Omkar Sharma & Sagar Maji, Building Acoustics 19(2) 2012, 89-98 (Published by Multi Science Publishing, United Kingdom).
62. *"Practical Concerns associated with use of single number ratings in describing sound transmission loss properties of partition panels"*, Naveen Garg, Anil Kumar & Sagar Maji, Accepted in Achieves of Acoustics, Published by Institute of Acoustics, Poland.
63. *"Significance and implications of airborne sound insulation criteria in building elements for traffic noise abatement"*, Naveen Garg, A. Kumar & Sagar Maji, Applied Acoustics, Vol. 74, pp. 1429-1435, 2013 (Impact Factor-1.1)
64. *"A critical review of principal traffic noise models: Strategies and implications, Environmental Impact Assessment Review"*, Naveen Garg and S. Maji, Vol. 46, pp. 68-81, 2014, (Impact Factor-1.8)
65. *"Parametric sensitivity analysis of factors affecting sound insulation of double glazing using Taguchi method"*, Naveen Garg, A. Kumar & Sagar Maji, Applied Acoustics, Vol. 74, pp. 1406-1413, 2013.
66. *"Parametric sensitivity analysis of factors affecting the sound insulation of multi-layered building elements"*, Naveen Garg, A. Kumar & Sagar Maji, Accepted in Achieves of Acoustics, published by Institute of Acoustics, Poland.
67. *"Uncertainty Evaluation and Implications of spectrum adaptation terms in determining the airborne sound insulation in building elements"*, Naveen Garg, T.K. Saxena, A. Kumar & Sagar Maji, Accepted for publication in Noise Control Engineering Journal.
68. *"Reaffirmation of measurement uncertainty in pressure sensitivity determination of LS2P microphones by reciprocity method"*, Naveen Garg, A. Kumar, M.A. Sanjid, K.P. Chaudhary, S. Maji, Measurement, 51(2014) 280-288, (Impact Factor-1.1)
69. *"Vibration induced due to acoustic excitation in diffuse field conditions"*, Naveen Garg and S. Maji, Acoustic Australia 41(2013) 219-224, (Impact Factor-2.20)
70. *"A multiple regression model for urban traffic noise in Delhi"*, N. Garg, S.Maji, S.K. Mangal & P. Dhiman, Proc. Of International Conference on Advances in Engineering And Technology, ICAET-2014, Roorkee, 343-347, ISBN:978-1-63248-028-6.
71. *"Modified Principal traffic noise models for Delhi roads, Proceedings International Conference on Innovations in Design, Manufacturing and Concurrent Engineering (IDMC)"*, N. Garg, S. Maji. R. Chauhan and P.K. Saini, National Institute of Technology Rourkerla, Paper ID 17, 1st to 3rd March, 2014, pp. 91-96.

72. *"Measurement Uncertainty in airborne sound insulation measurements and single – number quantities"*, N. Garg, A. Kumar & S. Maji, Proceedings of International Conference on Smart Technologies for Mechanical Engineering 25th to 26th October, Delhi Technological University, 2013, pp. 259-266.
73. *"Vibration induced in buildings due to acoustic excitation"*, Naveen Kumar, Omkar Sharma A.K. Bandyopadhyay & **S. Maji**
74. *"Hydrozen Fuel : A Reality or a Mere Illusion"* , Prof. S. Maji, Nitesh Gupta, Siddharth Arora and Abhishek Agarwal, Proceeding of the World Congress on Engineering and Computer Science 2007, San Francisco, USA
75. *"Use of CNG and diesel in CI Engines in dual fuel mode"*, S. Maji, A. Pal, B.B. Arora, SAE Technical Paper.
76. *"Experimental study of an air assisted mist generator"*, S. Lal, A. Kushari, M. Gupta, J.C. Kapoor, S.Kani, Experimental Thermal and Flued Science 34 (8), 1029-1035.
77. *"Microfluidic-integrated biosensors: Prospects for point-of-care diagnostics"*, S Kumar, S Kumar, M Ali, P Anand, VV Agrawal, R John, S Maji, Biotechnology journal 8(11), 1267-1279.
78. *"Experimental Investigations on Performance and Emission Characteristics of CNG in a Spark Ignition Engine"*, S Maji, PB Sharma, MKG Babu, SAE Technical Paper
79. *"Preparation of biodiesel from jatropha oil using ultrasonic energy"*, SS Kachhwaha, S Maji, M Faran, A Gupta, J Ramchandran, D Kumar, Proceedings of the National Conference on Trends and Advances in Mechanical Engineering
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Annexure - I

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