

Publications and Outreach Activities

BOOKS AND BOOK-CHAPTERS PUBLISHED

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JOURNAL AND CONFERENCE PAPERS

JOURNAL PAPERS

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303. Monitoring Biochemical Changes in Normal and Cancerous Cervical Tissues Using Intrinsic Fluorescence, National Laser Symposium, 2006, Md. Ejaz A Lodhi, Prashant Shukla, Anjali Saini, Meena Pal, Monika Mishra Nidhi Agarwal, Asha Agarwal and Asima Pradhan.
304. Recent developments in Rayleigh Benard Convection, in the Proceedings of the National Conference on Nonlinear Systems and Dynamcis-2006 (Chennai), Ed. M. Lakshmanan, R. Sahadevan, p. 137, 2006, M. K. Verma.
305. Energy Fluxes and Shell-to-shell Transfers in MHD Turbulence, in Lecture Notes in Computational Science and Engineering, proceedings of the Cyprus International Symposium on complex Effects in Large Eddy Simulations (CY-LES 2005), 2006, D. Carati, O. Debliqy, B. Knaepen, B. Teaca, M. K. Verma.
306. Energy Fluxes and Shell-to Shell Transfers in Forced Magnetohydrodynamic Turbulence, to appear in the Proceedings of MHD Summer 2005, Brussels, 2005, D. Carati, O. Debliqy, B. Knaepen, B. Teaca, M. K. Verma.
307. Mode-to-mode energy transfers and Patters in Convection, in the Proceedings of National Conference on Nonlinear Systems and Dynamics-2005 (Aligarh), M. K. Verma, K. Kumar, B. Kamble.
308. Negative refractive index of metamaterials at optical frequencies., Proc. MRS fall Meeting 2006, Symposium R (27th to 30th Nov. 2006, Boston) S. A. Ramakrishna, and S.Chakrabarti
309. Synthesis, Photophysical and Electroluminescent Properties of Arylenevinylenes-co pyrrolenevinylenes Derived from Divinylaryl Bridged Bispyrroles, *Macromolecules*, 40, 2657-2665, 2007, Anand K. Biswas, Ashish, A. K. Tripathi, Y.N. Mohapatra, and A. Ajayaghosh.
310. Trapping phenomena in intrinsic hydrogenated amorphous silicon like materials studied using current transient spectroscopies, *Journal of Non-Crystalline Solids* 352,1130-1133, 2006, Vibha Tripathi, Y.N. Mohapatra , P. Roca i Cabarrocas.
311. Electrical Characterization of Solution Processed MEHPPV/CNPPV Hetrostructure, 9th Asian Symposium on Information Display, New Delhi, 2006, pp219, D.C. Tripathi, D.K.Sinha, C.K.Suman and Y.N.Mohapatra.
312. Dielectric Properties of sol-gel-derived calcium copper titanate and calcium barium copper titanate thin films, *Defence Sceicne Journal*, 57,55, 2007, A. Dixit, D. Maurya, D.P. Singh, D.C. Agarwal and Y.N. Mohapatra.
313. A Laser heated pedestal growth of crystalline LiNbO₃ crystal directly from the congruent mixture of Li₂CO₃ and Nb₂O₅, Sasmita Kumari Patro, Satyendra Singh Thakur, Pradeep Kumar, Bansi Lal and Joseph John, Proceedings of Sixth DAE-BRNS National Laser Symposium (NLS-6), p82-83, December 5-8, 2006 (Raja Ramanna Center for Advanced Technology, Indore, India).

314. Laser heated pedestal growth of the organic optical material 3-methoxy 4-hydroxy benzaldehyde, Shivani Singh and Bansilal, Proceedings of Sixth DAE-BRNS National Laser Symposium (NLS-6), p80-81, December 5-8, 2006 (Raja Ramanna Center for Advanced Technology, Indore, India).
315. Synthesis of the Nano-scaled Terbium Aluminium Garnet for Photonic Devices, Humyra Shabir and Bansilal, Proceedings International Workshop on the Physics of Mesoscopic and Disordered Materials, p135-6, 04-08 December, 2006 (Department of Physics, Indian Institute of Technology Kanpur, India).
316. Laser Heated Pedestal Growth of Organic Photonic Materials, Pradeep Kumar, Shivani Singh and Bansilal, Proceedings International Conference on Lasers and Nanomaterials, PL-10, November 30-December 2, 2006 (Department of Physics, University of Calcutta, Kolkata, India)

CONFERENCES ATTENDED OUTSIDE IIT KANPUR

1. 3rd AIAA Flow Control Conference, San Francisco, California, June 2006, R.K. Sullerey.
2. 30th Indian Social Science Congress, December 26-31, 2006, Alagappa Chittier Research Center, Karaikudi, TN; Chairman : of a Session; Presented: a paper, K. Ghosh.
3. Workshop on Science Education, Homi Bhabha Center for Science Education, TIFR, Mumbai, Mar 22-24, 2007, Chairman : of a Session; presented an Invited paper, K. Ghosh.
4. Session Chairman for Helicopter Development at International Conference and Seminar during Aero India-2007, Bangalore, Feb. 2007, C. Venkatesan.
5. Organized and chaired the session on Asymptotic Methods in Boundary and Shear Layers at the International Conf. Boundary and Interior Layers, BAIL-2006 held at Univ. of Goettingen, Germany July 2006, Tapan K. Sengupta.
6. High-accuracy high Performance Computing- Current status and future directions: Invited talk as a panelist at International HPC-Users' Conference, IISc Bangalore, 2 March, 2007, Tapan K. Sengupta.
7. 7th World Congress on Computational Mechanics, WCCM06, Hyatt Regency Century Plaza Hotel, Los Angeles, California, July 16-22, (2006), Sanjay Mittal.
8. Indo-German Winter Academy, Digha December 10-13 (2006), Sanjay Mittal.
9. Aerospace Technologists Meet February 1-2, IIT Madras, Chennai (2007), Sanjay Mittal.

10. International High Performance Computing (HPC) Users Conference on Leadership Computing for Science and Industry 28 February -2 March, IIT Delhi and IISC Bangalore (2007), Sanjay Mittal.
11. 14th International Conference on Finite Elements in Flow Problems Santa Fe, New Mexico USA March 26-28 (2007), Sanjay Mittal.
12. International Conference on Computational Methods (ICCM07) Hiroshima Japan, 406 Apr (2007), Sanjay Mittal.
13. AIAA Atmospheric Flight Mechanics Conference and Exhibit, Keystone, Colorado, 21st - 24th Aug.2006, Speaker, S.K. Gupta
14. Workshop on Colloids and Materials Chemistry, Regional Research Laboratory (RRL), Bhubaneshwar, January, 2007, R. Bandyopadhyaya.
15. First Indo-UK Nanotechnology Conference, British Council and S. N. Bose National Centre for Basic Sciences, Calcutta, November, 2006, R. Bandyopadhyaya.
16. Nanotechnology Workshop, IIT Madras, October, 2006, R. Bandyopadhyaya.
17. ODH of Propane over several V₂O₅/TiO₂-SiO₂ and V₂O₅/TiO₂ Catalysts: Understanding the Structure-Reactivity Relationship AICHE 2006 Annual Meeting, San Francisco, Nov-2006, D. Shee and G. Deo.
18. Structure-activity relationships in vanadia-ceria catalysts during ethane oxidation to ethylene by operando Raman-GC analyses Second International Congress on Operando Spectroscopy, Toledo, Spain, April-2006, M. V. Martínez-Huerta, G. Deo, J.L.G. Fierro, I. E. Wachs, M. A. Bñares.
19. Transesterification, modeling and simulation of batch kinetics of non-edible vegetable oils for biodiesel production. Annual AIChE meeting, San Francisco, USA. November, 2006, S. Garg.
20. Presented an invited paper in Conference on Assembly, Organization and Propulsion in Complex Systems, 22nd-24th February, 2007. Indian Institute of Technology, Madras, A. Ghatak.
21. National Conference on Latest Developments in Oil and Gas Sectors, Institution of Engineers (India), Delhi State Chapter, Sept. 2006. Delivered an Invited Sir P.C. Roy Memorial Lecture on Manpower Needs of Oil and Gas Industry, J.P. Gupta.
22. Engineers' Day Symposium, Institution of Engineers (India) Qatar Chapter, Doha, Qatar, Sept. 15, 2006. Delivered an invited talk on 'Role of Engineers in Natural Disaster Mitigation and Management', J.P. Gupta.
23. International Workshop on Dangerous Goods Management and Emergency Response, Taiwan, October 2006. Delivered a talk on Chemical Emergency Management - National Incident Management System, J.P. Gupta.

24. First Joint Symposium of Industry - Academy, Gyeongju, Korea, December 2006. Delivered an Invited talk on 'Inherently Safer Design - Concepts and Applications', J.P. Gupta.
25. Petrotech2007, January 15-19, 2007, New Delhi. Participated as an attendee, J.P. Gupta.
26. 56th Canadian Chemical Engineering Conference, Sherbrooke, Quebec, Canada, October, 2006. A paper titled Security Risk Assessment Techniques for Chemical Process Industries, authored by S. Bajpai and J. P. Gupta. (It was presented by my student Mr. S. Bajpai).
27. CAMURE-6 and ISMR-5 at NCL, Pune, 14th -17th Jan, 2007, Ashok Khanna.
28. 19th International Symposium on Chemical Reaction Engg., Potsdam, Germany, Sep 3-6, 2006, D. Kunzru.
29. Attended the Asian Society for Information Display (ASID) 2006 International Conference, New Delhi, Oct 8-12, 2006, S. Panda.
30. Attended the International Workshop on Micro/Nano Systems Technology for Bio-Implants and Bio Applications, Kolkata, Dec 28-30, 2006, S. Panda.
31. Invited to the Center of Excellence in Nanoelectronics, IIT Bombay, for exploring collaborative work, March 5, 2007, S. Panda.
32. IIT-K Reach symposium 2007, Poster presented, V. Shankar.
33. Self-organized Large Area Meso-patterning of Polymers, BRNS-DAE Theme Meeting on Self-assembly Routes for Nanotech Materials, BARC, Mumbai, April 2006, A. Sharma.
34. Surface instability of thin films, International Workshop on Wave Dynamics and Stability of Thin Film Flow Systems, IIT Madras, Chennai, September 2006, A. Sharma.
35. Fabrication by Elastic Contact Lithography, RPG Life Science Professor M M Sharma Medal and CHEMCON Distinguished Lecture, CHEMCON, Annual Indian Chemical Engineering Congress, Ankleshwar, December 2006, A. Sharma.
36. Soft patterning for MEMS structures, International workshop on MEMS and Micro/Nano Systems Technology, Kolkata, December 2006, A. Sharma.
37. Self-organized patterning by Elastic Contact Lithography, Annual AIChE Meeting, Alpha Chi Sigma Symposium honoring Darsh Wasan, San Francisco, November 2006, A. Sharma.
38. Self-organized patterning of soft solids, National Workshop on Nanomaterials and Nanotechnology, University of Lucknow (Materials Research Society of India), Lucknow, March 2007, A. Sharma.
39. Self-organized materials and interfaces, Recent Developments in Nanomaterials, Banaras Hindu University, March 2007, A. Sharma.

40. Self-organized manufacturing, National Review and Coordination Meeting on Nanoscience and Nanotechnology, Hyderabad, February 2007, A. Sharma.
41. IIT-K Reach Symposium 2007, Poster presented, J.K. Singh.
42. Attended 86th Annual Meeting of the Transportation Research Board, Washington D.C., USA. Presented a paper at the conference.
43. Attended 2nd National Frontiers of Engineering Symposium, New Delhi. Chaired the session on Transport, Chakraborty, P.
44. Combined Regional Workshop of WWTM and IHWTM in ARRPET, Shahid Raya Hotel, Bali, Indonesia, June 5-6, 2006, Chaired Session, S. Guha.
45. Annual Review Workshop of ARRPET II, AIT, Bangkok, Nov 5-7, 2006, Chaired WWTM Sessions, S. Guha.
46. International Conference on Civil Engineering in New Millennium, CENEM 2007, Jan 11-14, 2007, Bengal Engineering and Science University, Shibpur, Howrah, West Bengal, India. Invited Paper Presented and Chaired Session, S. Guha.
47. Attended 15th US National Congress of Theoretical and Applied Mechanics, Boulder, Colorado, USA, 25-30 June, 2006, Kumar Ashwini. [Contributed paper]
48. Attended 14th International Conference on Composite Engineering, Boulder, Colorado, USA, July 2-8, 2006, Kumar Ashwini. [Invited paper]
49. Attended 2nd International Congress on Computational Mechanics and Simulation, IIT Guwahati, India, 8-10 December, 2006, Kumar Ashwini. [Keynote speaker, Session chairman]
50. Attended Map World Forum 2007, Hyderabad, 24-28 January 2007, Panelist, invited speaker and presented research paper, Lohani, B.
51. Attended ISPRS International Symposium on Geospatial Databases for sustainable development, Goa, 27-30 September 2006, Presented research paper, Lohani B.
52. Attended ISPRS Commission VI symposium, 27-30 June 2007, Tokyo, Presented a research paper, Lohani B.
53. CATCON software competition, 27-30 June 2007, Tokyo, Participated in software competition with Limulator, , Lohani, B.
54. Joint Asia Oceania Geosciences Society (AOGS) 3rd meeting 10-14 July 2006, Suntec Singapore International Convention & Exhibition Centre, Singapore, Malik, J.N.
55. 100th Anniversary 1906 San Francisco Earthquake conference at San Francisco, April 18-22, 2006, Malik, J.N.
56. Attended 100th Anniversary Earthquake Conference Commemorating the 1906 San Francisco Earthquake during 18-22, 2006 at San Francisco, USA

- contributing paper entitled Implications of the 2004 Great Sumatra Earthquake and Tsunami for Risk Reduction in India, Jain S. K.
57. Attended First European Conference on Earthquake Engineering and Seismology during September 3-8, 2006 in Geneva, Switzerland, Jain S. K.
 58. Attend meeting Board of Directors of International Association for Earthquake Engineering, Jain S. K.
 59. Attend Editorial Board Meeting of the journal Earthquake Engineering and Structural Dynamics' Wiley. , Jain S. K.
 60. World Seismic Safety Initiative (WSSI) during 3-4 December in Singapore for attending Annual meeting of the Board of Directors, Jain S. K.
 61. International Disaster Management Symposium :: Culture of Prevention, 18 January 2007, Kobe, JAPAN, Murty, C.V.R.
 62. 8th US National Conference on Earthquake Engineering, 19-21 April 2006, San Francisco, USA, , Murty, C.V.R.
 63. 13th World Conference on Earthquake Engineering, 1-6 August 2006, Vancouver, CANADA, Murty, C.V.R.
 64. 3rd Indo-German Workshop and Theme Meeting on Seismic Safety of Structures, Risk Assessment and Disaster Mitigation, 12-13 March 2007, BARC, Bombay, Murty, C.V.R.
 65. International Roundtable on Lessons from Natural Disasters, Policy Issues and Mitigation Strategies, 8-12 January 2007, Vellore, India, Murty, C.V.R.
 66. Engineers's Day Celebration, 14 September 2006, Institution of Engineers (India), Indore Chapter, Murty, C.V.R.
 67. Indo-US National Frontiers of Engineering Symposium, 1-3 April 2006, Agra, India, Murty, C.V.R.
 68. International Conference on 'Deltas: Depositional systems and stratigraphic development, Brunei Darussalam, January 13-18, 2006 (Invited lecture), Sinha R.
 69. Fluvial conference on IGCP518 and IAG Working Group on Large Rivers. Shanghai and Nanjing, 9-16, October, 2006 (Invited lecture) , Sinha R.
 70. International conference on 'Changing Scenario in Paleobotany and allied subjects', Birbal Sahni Institute of Paleobotany Lucknow, November 15-17, 2006, Sinha R. (Keynote lecture)
 71. American Geophysical Union Fall Meeting, San Francisco, December 11-15, 2006, contributed paper, Dey, S. and S. N. Tripathi, Aerosol and cloud forcing in the Indo-Gangetic plain.
 72. American Geophysical Union Fall Meeting, San Francisco, December 11-15, 2006, contributed paper, Tripathi, S. N., Srivastava, A. and Dey, S., Surface and Aircraft Measurements of Aerosol Black Carbon at a Typical Location in Gangetic Basin, Northern India.

73. Formal Methods Update 2006, IIT Guwahati, July 2006, delivered two talks on Quantitative and Stochastic Games, Anil Seth.
74. ICTP-ITU-URSI School on Wireless Networking for Scientific Applications in Developing Countries, February 20-21, 2007, ICTP, Trieste, Italy, Bhaskaran Raman.
75. Wireless Systems: Advanced Research and Development (WISARD 2007), a workshop in COMSWARE 2007, January 7-8, 2007, Bangalore, India, Bhaskaran Raman.
76. The First ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH 2006), A MOBICOM 2006 Workshop, September 2006, Los Angeles, USA, Bhaskaran Raman.
77. 12th Annual International Conference on Mobile Computing and Networking (MOBICOM), September 2006, Los Angeles, USA, Bhaskaran Raman.
78. 25th Annual Conference on Computer Communications (IEEE INFOCOM), Barcelona, Spain, April 2006, Bhaskaran Raman.
79. 2nd International Conference on Global E-Security (ICGeS 2006), April 2006, London, UK, Dheeraj Sanghi.
80. IPv6 Global summit, April 2006, Bangalore, Dheeraj Sanghi.
81. International Conference on Advanced Technologies and Electronic Transactions, Jul. 2006, Kathmandu, Nepal, Dheeraj Sanghi.
82. NASSCOM Annual HR Summit, July 2006, Chennai, Dheeraj Sanghi.
83. 8th International Symposium on Systems and Information Security (SSI 2006), November 2006, Sao Paulo, Brazil, Dheeraj Sanghi.
84. 12th Asia Pacific Software Engineering Conference, December 2006, Bangalore, Dheeraj Sanghi.
85. Conference on Computational Complexity 2006, Prague.
86. SPIE 'Defense and Security Symposium', Florida, USA, 2006, Phalguni Gupta.
87. 23rd International Biometric Conference, Montreal, Canada, 2006, Phalguni Gupta.
88. International Conference on Distributed Computing and Networking (ICDCN), Guwahati, India, December 2006, Phalguni Gupta.
89. International Conference on Computing: Theory and Applications (ICCTA), Kolkata, India, January 2007, Phalguni Gupta.
90. The 31st International Symposium on Mathematical Foundations of Computer Science. Presented a contributed lecture, Piyush Kurur.
91. The 2006 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.

92. The 2006 International Conference on Machine Learning; Models, Technologies and Applications, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.
93. International Workshop on Internationalization, World Wide Web Consortium, R. M. K. Sinha.
94. Invited Panelist at Symposium on Modeling and Shallow Parsing of Indian Languages (MSPIL-06), IIT Bombay on April 2-4, 2006, presented Invited paper on 'Machine Translation of Hinglish', R. M. K. Sinha.
95. Intel Workshop on Multicore curriculum, May 2006, Portland, Oregon, Sanjeev Kumar Aggarwal.
96. Cluster and Grid Computing, May 2006, Singapore, Sanjeev Kumar Aggarwal.
97. Conference on use of Grids in Health care, August 2006, Delhi, Sanjeev Kumar Aggarwal.
98. Intel Multicore Development Workshop, September 2006, Jaipur, Sanjeev Kumar Aggarwal.
99. Intel Developers Forum, October 2006, Bangalore, Sanjeev Kumar Aggarwal.
100. Intel Asia Academic Forum, November 2006, Malaysia, Sanjeev Kumar Aggarwal.
101. Asia Pacific Software Engineering Conference, December 2006, Bangalore, Sanjeev Kumar Aggarwal.
102. TRDDC Silver Jubilee Research Workshop, December 2006, Pune, Sanjeev Kumar Aggarwal.
103. High Performance Computing, December 2006, Bangalore, Sanjeev Kumar Aggarwal.
104. Microsoft Annual Research Seminar Techvista, January 2007, Bangalore, Sanjeev Kumar Aggarwal.
105. High Performance Computing USers Conference, February 2007, Delhi, Sanjeev Kumar Aggarwal.
106. European Symposium on Algorithms (ESA), September 11-15, Zurich, Switzerland, paper presentation, Sumit Ganguli.
107. ACM Symposium on Principles of Database Systems (PODS), June 26-28, Chicago, USA, paper presentation, Sumit Ganguli.
108. 12th International computing and combinatorics Conference (COCOON 2006), August 15-18, 2006, Taipei, Taiwan (Republic of China), paper presentation, Shashank K. Mehta.
109. 17th International Symposium on Algorithms and Computation (ISSAC 2006), December 18-20, 2006, Kolkata, paper presentation, Shashank K. Mehta.
110. Sixth Working IEEE/IFIP Conference on Software Architecture, WICSA 2007, Mumbai, Jan 2007, a key note address on A Knowledge Management Perspective of Software Architecture, Prabhakar T.V. .

111. Conference Mumbai February, 2007, invited talk on The Management of Architecture Knowledge IT Enterprise Architecture Practitioners, Prabhakar T.V.
112. 9th Asian Symposium on Information Display (ASID), New Delhi, India, 11th October 2006, Paper presentation, P. K. Kalra.
113. Symposium on Computational Neuroscience and Imaging, Lucknow, India, 17th -20th December, 2006, Paper presentation, P. K. Kalra.
114. Elitex-2007, New Delhi, India, January, 2007, Poster Presentation, P. K. Kalra.
115. Twentieth International Joint Conference on Artificial Intelligence (IJCAI - 07), International Institute of Information Technology, Hyderabad, India, 6th - 12th January 2007, Workshop Lectures, P. K. Kalra.
116. International Conference on Wireless Sensor Networks (WCSN), Indian Institute of Information Technology, Allahabad, India, December 2007, P. K. Kalra.
117. International Conference on Neural Biology and Neural Informatics, (NBNI-2006), Kyoto, Japan, July 23-24, 2006, Paper presentation, P. K. Kalra.
118. International Conference on Advanced Power System Operation Control and Management (APSCOM-2006), Hong Kong, 30th October - 2nd November, 2006 (chaired a session and presented paper), S. C. Srivastava.
119. 14th National Power Systems Conference (NPSC), IIT Roorkee, 27-30 December, 2006. (delivered a key note lecture) , S. C. Srivastava.
120. Chaired the technical session on Reluctance and Special Drives in IEEE International Conference on Industrial Technology (ICIT 2006), Dec. 15-17, 2006, Mumbai, S. P. Das.
121. IEEE Power India Conference Delhi, April 10-12, 2006, S.N.Singh (Session Chairman)
122. International Conference on Energy, Efficiency and Environment, UPTU Lucknow, June 10-11, 2006, S.N. Singh (Organizing committee member, Technical Committee Chairman, Session Chairman)
123. IEEE Power Engineering Society, General Meeting, Montreal, Canada, June 18-22, 2006, S.N.Singh (Panelist, paper presenter)
124. National Seminar on Voltage Stability (SVC'06), Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006, S.N. Singh. (Keynote Speaker)
125. Workshop on Laboratory Teaching in Electrical Engineering (LTEE-06), KNIT Sultanpur, India, November 24-26, 2006, S.N. Singh (Guest of Honor, Valedictory session).
126. AICTE Sponsored National Conference on Advances in Electrical Engineering, MITS Gwalior, Indian, November 29-30, 2006, S.N. Singh (Keynote Speaker, Inaugural Session)

127. Presented a contributed paper entitled A Utility Friendly High Power Induction Motor Drive with Direct Torque and Flux Control, in IEEE International Conference on Industrial Technology (ICIT 2006), Mumbai, 15-17 Dec. 2006, pp. 1983-1988, S. P. Das
128. IEEE SoSE Conference, San Antonio, Texas, USA, April, 2007, presenting contributed paper, L. Behera.
129. IEEE Int. Symposium on Intelligent Control (ISIC), Munich, Germany, 2006, presenting contributed paper, L. Behera.
130. International Conference on Information Technology IEEE-ICIT 2006, December 15-17, 2006, Mumbai, India. Chaired two sessions, P. Sensarma.
131. Conference on Advances in Control and Optimization of Dynamic Systems. IISc Bangalore, January 2007. Presented contributed paper, chaired session, R. Potluri.
132. 2006 IEEE 8th International Conference on Properties and Applications of Dielectric Materials, Bali, Indonesia: Presented two papers, Chaired a session, N. Gupta.
133. National Power Systems Conference (NPSC 06), IIT Rorkee, Dec 2006: Presented a paper, Chaired a session, N. Gupta.
134. 2006 International Conference on Information Display, Organised by Asian Society for Information Display (ASID) in Oct. 2006, in New Delhi, S. Gupta.
135. 2006 IEEE Information Theory Workshop held at Chengdu, China, R. K. Bansal.
136. International Joint Conference on Artificial Intelligence, Hyderabad for presenting contributed paper, S. Umesh.
137. 12th National Conference on Communications, NCC 2006 at IIT Delhi, A. K. Chaturvedi.
138. IEEE International Conference on Communications, ICC 2006 at Istanbul, A. K. Chaturvedi.
139. WINS, Goa, April 2006. Invited speaker, A. K. Chaturvedi.
140. 12th National Conference on Communications, NCC 2006 at IIT Delhi, A. Banerjee.
141. IEEE Wireless Communications and Networking Conference (WCNC), Hong Kong, March 2007, A. Banerjee.
142. The 2006 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.
143. The 2006 International Conference on Machine Learning; Models, Technologies and Applications, Las Vegas, Nevada, USA, June 26-29, 2006, R. M. K. Sinha.
144. Invited Panelist at Symposium on Modeling and Shallow Parsing of Indian Languages (MSPIL-06), IIT Bombay on April 2-4, 2006. Presented Invited paper on 'Machine Translation of Hinglish', R. M. K. Sinha.

145. WISARD, Bangalore, Jan 2007. Panelist in discussion, K. Chebrolu.
146. WINS, Goa, April 2006. Invited participant, K. Chebrolu.
147. The 9th Asian Symposium on Information Display at New Delhi from 8th to 12th October, 2006. Was member of program committee; Chaired two tutorial sessions (by Prof. Harm Tolner and Prof. Y.N. Mohapatra); Made a poster presentation.
148. Made a poster presentation and chaired two tutorial(Prof. Harm Tolner and Prof. Y.N. Mohapatra) Sessions in the 9th Asian Symposium on Information Display at New Delhi from 8th to 12th Oct 2006, S. K. Iyer.
149. A Coordinated Approach to Shipment Planning and Scheduling Decisions in Supply Chains with Multiple Supply Modes, 10th Annual International Conference of the Society of Operations Management (SOM) held from December 21-23, 2006 at Indian Institute of Management Ahmedabad, India, P. Mehta.
150. International Corporate Responsibility 2006, HongKong, September 22-24, R. Sarkar.
151. Green Competitiveness for Sustainable Development, IMT, Ghaziabad, October, 2006, R. Sarkar.
152. Ninth Biennial Conference of the International Society for Ecological Economics, Delhi, Dec15-19, 2006, R. Sarkar.
153. Conference on Sustainable Energy and Environment : Technology and Policy Options, Bangkok, 21-23 November 2006, Anoop Singh.
154. IAEE International Conference, (7-10 June, 2006), Potsdam/Berlin, Germany, Anoop Singh.
155. Conference on Better Air Quality, Indonesia, 13-15 December, 2006, Anoop Singh.
156. INFRATRAN Autumn School Trends in Infrastructure Modeling and Policy to be organized by TU Berlin's WIP from 2 - 7 October 2006, Anoop Singh.
157. Knowledge Management Strategies for Continuous Process Industries. Institute of Oil & Petrochemical Management, Mamudabad, Iran, May 2006, J. Chatterjee.
158. Marketing of Services, Mazandran University of Science & Technology, Iran, May 2006, J. Chatterjee.
159. Managing Innovation for Success in a Manufacturing DBE. National Knowledge Commission and PHDCCI Conference on Innovation & Faster Growth, PHDCCI, Delhi-Lucknow, India, November 2006, J. Chatterjee.
160. Developing a Village Knowledge Centres Network. Panchayati Raj Seminar, Barhalunge, Gorakhpur, India, December 2006, J. Chatterjee and M. D. Singh.

161. A Strategic Approach to User Participation in Agricultural Knowledge Management - the Agropedia Model'. KM-NAIP Seminar, Indian Council for Agricultural Research, Delhi, India January 2007, J. Chatterjee and M. D. Singh.
162. Global Marketing Leadership. National Seminar on Young Leaders in the Making - Expectations and Imperatives, Lucknow, March 2007, J. Chatterjee.
163. OPAALS Workshop, London School of Economics, U.K., June 2006, J. Chatterjee.
164. Open Knowledge Space, OPAALS, Workshop, Tampere University of Technology, Finland, October 2006, J. Chatterjee.
165. Language, Semantics and SBVR Workshop, OPAALS, University of Kassel, Germany, March 2007, J. Chatterjee.
166. Labour standadrs and globalisation. 23rd March 2007, Dept. of HSS, IIT Bombay, Rahul Varman.
167. Institutional Aspects in Artisanal Clusters. Kraft Tech: National seminar on the 'Confluence of technology with handicrafts', 31st March 2007, Design Programme, IIT Kanpur, Rahul Varman.
168. Socio-technical frame work of Business ecosystems for competitiveness of Craft clusters' : National seminar on the 'Confluence of technology with handicrafts', 31st March 2007, Design Programme, IIT Kanpur, J. Chatterjee.
169. **Ubiquitous Middleman Syndrome; Trust is the key** : National seminar on the 'Confluence of technology with handicrafts', 31st March 2007, Design Programme, IIT Kanpur, B. V. Phani.
170. Winter Research Conference on Microstructure of International Financial Markets, Indian School of Business, December 17-19, 2006, B. V. Phani.
171. ICQRIT 2006 New Delhi Dec02-04,2006, Ashok K Mittal.
172. ORSI 2006 Kolkatta Jan05-07, 2007, Ashok K Mittal.
173. National workshop on Marketing Intelligence VIT Vellore Feb 19-20, 2007, Ashok K Mittal.
174. Research and Relevance :LUMS Lahore Pakistan Jan 16-17, 2007, Ashok K Mittal.
175. RAOTA 2006 Delhi Oct27-28, 2006, Ashok K Mittal.
176. NCIITE Dayanand Girls College Kanpur Feb 26-27, 2007, Ashok K Mittal.
177. Brainstorming on UK India Collaboration to identify the barriers to the transfer of low Carbon energy technologies TERI New Delhi 13 Sept 2006, Ashok K Mittal.
178. Second National conference on Management Science and Practice IIT Madras March 9-11, 2007, Ashok K Mittal.
179. KCCQC -2006 BHEL Haridwar Oct 2006, Ashok K Mittal.
180. The 7th Asia Pacific Industrial Engineering and Management Systems Conference, Bangkok, 17-20 December 2006, Session Chair, Kripa Shanker.

181. Workshop on Immediate Energy Saving via Microwave Usage in Major Materials Technologies organized by National Academy of Engineering and Penn State University, University Park, USA (June 8-10, 2006) and presented an invited lecture on Microwave Sintering of W-Ni-Fe Alloys, A. Upadhyaya.
182. International Conference on Powder Metallurgy (PM2TEC2006) held at San Diego, CA, USA (June 18-21, 2006) and presented the contributed paper titled Sintering and Heat-Treatment Studies on SH737 and 4300 Steels, M. Das, S.K. Sinha and A. Upadhyaya.
183. Effect of Powder Characteristics and Processing Parameters on the Shrinkage behaviour of Copper Compacts, Powder Metallurgy World Congress (PM2006), 24-28 September, 2006, Busan, South Korea, B. Padmavathi and A. Upadhyaya.
184. Effect of Sintering Temperature on Grain Boundary Character Distribution in Pure Nickel, S.K. Sinha, Powder Metallurgy World Congress (PM2006), 24-28 September, 2006, Busan, South Korea, S. K. Sinha, P. P. Bhattacharjee, and A. Upadhyaya.
185. Processing and Characterization of Cr-Cu Alloys through Liquid Phase Sintering for Vacuum Circuit Breakers Powder Metallurgy World Congress (PM2006), 24-28 September, 2006, Busan, South Korea, K. S. Nalwa, S. K. Sinha, and A. Upadhyaya.
186. Minerals, Metals, Metallurgy, 6th International Trade Fair & Conference, 11-14 September, 2006, New Delhi, A. Upadhyaya.
187. Papers from Dr. Upadhyaya's group were presented in the 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006.
188. A Comparative Study of Deformation and Recrystallization Textures in P/M Processed Pure Ni and Ni-5 at.% W Alloy Substrate Tapes for Coated Superconductor Applications, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, P.P. Bhattacharjee, R.K. Ray, and A. Upadhyaya.
189. Optimization of Mechanical Properties of Low Alloy P/M Steel through the Control of Microstructure and Pore Morphology, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, S.K. Sinha and A. Upadhyaya.
190. Corrosion Behaviour of Sintered Aluminide Reinforced 434L Stainless Steel, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, G. Joshi, S. Balaji, and A. Upadhyaya.
191. Phase Evolution and Sinter-Bonding Mechanism of Ternary Boride (Fe,Mo,Cr,B) based Cermets Sintered at Various Temperatures, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, Jain, B. Palanisamy, and A. Upadhyaya.

192. Fabrication of Al-Si Alloy and 2024 Al Alloys by Sprayforming, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, S. Tandon, P. Dash, and A. Upadhyaya.
193. Corrosion Behaviour of Sintered Aluminide Reinforced 316L Stainless Steel, 60th Annual Technical Meeting of the IIM, Jamshedpur, 15-16 November, 2006, P. Vijay, S. Balaji, and A. Upadhyaya.
194. Effect of Heating Rate on the Sintering Response and Microstructural Evolution in Tungsten Heavy Alloys, National Workshop on Powder Metallurgy of Refractory and Hard Metals- Processing & Prospects (MPRM-2006), December 8-9, 2006 at Tiruchirappalli, Mondal and A. Upadhyaya.
195. Sinterbonding of Boride-Based Cermets on to Steel Substrate, International Conference on Recent Advances in Materials & Processing (RAMP2006) held between December 15-16, 2006 at Coimbatore, P. Barath and A. Upadhyaya.
196. Supersolidus Liquid Phase Sintering of Intermetallic Dispersed Stainless Steel Composites, International Conference on Recent Advances in Materials & Processing (RAMP2006) held between December 15-16, 2006 at Coimbatore, S. Balaji and A. Upadhyaya.
197. PTFE-Cu Composites through Mechanical Alloying, M. Ananthraman, International Conference on Recent Advances in Materials & Processing (RAMP2006) held between December 15-16, 2006 at Coimbatore, Upadhyaya, K.K. Kar.
198. Conference on Advances in Space Science and Technology (CASST'2007) held between January 29-31, 2007 at IISc Bangalore and presented a paper titled Materials Processing for Communication Satellites, E. R. Tagore, A. Upadhyaya, and A.V. Pathak.
199. Sprayforming of Al-Si and 2024 Al Alloys, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, S. Tandon, P. Dash, A. Upadhyaya.
200. P/M Processing of Cu-Pb Alloys for Bearing Applications, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, P. Dash and A. Upadhyaya.
201. Pressureless Sintering of MoSi₂-SiC Composites for Aerospace Applications, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, P. Vijay, A. Mondal, A. Upadhyaya.
202. Effect of YAG Addition on Electrochemical Response of Sintered Stainless Steels, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI

- held in Noida between 9-11 February 2007, S. Balaji, G. Joshi, and A. Upadhyaya.
203. Challenges in the Processing of Al-Alloys via P/M Route, International Conference Powder Metallurgy for Automotive & Engineering Industry PM-2007 and 33rd Annual Technical Meeting of PMAI held in Noida between 9-11 February 2007, Padmavathi, A. Upadhyaya.
 204. Activated Sintering of Stainless Steels, International Symposium on Advances in Stainless Steels (ISAS2007) held between April 9-11, 2007 at Chennai, A. Upadhyaya.
 205. Reactive Surface-Bonding of Boride based Cermets on Ferrous Alloys, International Symposium on Advances in Stainless Steels (ISAS2007) held between April 9-11, 2007 at Chennai, P. Barath and A. Upadhyaya.
 206. Sintering and Electrochemical Characterization of Aluminide Dispersed Stainless Steels, International Symposium on Advances in Stainless Steels (ISAS2007) held between April 9-11, 2007 at Chennai, S. Balaji and A. Upadhyaya.
 207. Investigation of Magnetic Behaviour of Mechanical Activation Derived Multiferroic BiFeO₃, Ashish Garg, Thota Harikishan, Brajesh Pandey, and Harish Chandra Verma, accepted for Oral Presentation at MRS Spring Meeting, San Francisco, 9-13 April 2007.
 208. Sol-gel Synthesis and Characterization of Multiferroic BiFeO₃-PbTiO₃ Thin Films, Soumya Kar, Anju Dixit, Ashish Garg, and D. C. Agrawal, accepted for Oral Presentation at MRS Spring Meeting, San Francisco, 9-13 April 2007.
 209. Organic Field Effect Transistor Using Sol-gel Processed Ferroelectric Gates, Sambit Pattnaik, Vijayraj Singh, Ashish Garg and Monica Katiyar, accepted for Poster Presentation at MRS Spring Meeting, San Francisco, 9-13 April 2007.
 210. Multiferroic Sm-doped BiFeO₃ Ceramics synthesized by Solid-State-Reaction Method, 4th International Conference and Exhibition on Emerging Solutions through Powder Metallurgy in Automotive and Emerging Industry, 9-11 February, New Delhi, India, Kanwar Singh Nalwa, Ashish Garg and Anish Upadhyaya.
 211. Synthesis and Characterization of Multiferroic BiFeO₃ Thin Films Prepared by Chemical Solution Deposition Method, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), Won Best Poster Award, Vijayraj Singh, Anju Dixit, and Ashish Garg.
 212. Multiferroic Bismuth Ferrite Synthesized by Mechanical Activation, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), T. Harikishan and Ashish Garg.

213. Characterization of Multiferroic BiFeO₃ Ceramics synthesized by Solid-State-Reaction Method, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), Won Best Poster Award, Kanwar Singh, Ashish Garg and Anish Upadhyaya.
214. Synthesis and Characterization of Solution Processed BiFeO₃-PbTiO₃ Thin Films, XIVth National Seminar on Ferroelectrics Dielectrics & Workshop on Advances in Multifunctional Materials, 18-21 Dec 2006, IIT Kharagpur (India), S. Kar, A. Dixit, A. Garg and D.C. Agrawal.
215. Influence of Milling Parameters on Dry Mechano-chemical Synthesis of Nanocrystalline Hydroxyapatite, 8th International Conference on Nanostructured Materials, August 20st-25th, 2006, Indian Institute of Science, Bangalore (India), T. Mondal, B.K. Mishra and Ashish Garg.
216. Novel Low Temperature Chemical Synthesis of Ferroelectric Bismuth Titanate Nanoparticles, 8th International Conference on Nanostructured Materials, August 20st-25th, 2006, Indian Institute of Science, Bangalore (India), P. Prakash, M.K. Roy, A. Garg and H.C. Verma.
217. Effect of Processing on the Electrochemical Behavior of Ni-Al₂O₃ Composites (ORAL), Eighth International Symposium on Advances in Electrochemical Science and Technology, 27-30 November 2006, Goa, S. Pal and R. Balasubramaniam
218. Studies on Corrosion Prevention of Rail Steels (POSTER), Eighth International Symposium on Advances in Electrochemical Science and Technology, 27-30 November 2006, Goa, Bijayani Panda and R. Balasubramaniam.
219. Corrosion of Rare Earth Based Magnetostrictive Alloys in Marine Environment (POSTER), Eighth International Symposium on Advances in Electrochemical Science and Technology, 27-30 November 2006, Goa, Deepika Sachdeva and R. Balasubramaniam.
220. Use of Scanning Electron Microscopy for Study of Degradation of Materials (Invited paper), National Conference on Advanced Analytical Techniques for Material Characterization, 27Nov-01Dec, DMSRDE, Kanpur, R Balasubramaniam.
221. Scientific Materials, Equipments and Techniques in Conservation: the Delhi Iron Pillar Example (Keynote Lecture), National Conference on Materials , Equipments and Techniques for Conservation of Cultural Property - Present , past and future, 14 -16 December, 2006, Regional Conservation Laboratory, Mysore, R Balasubramaniam.
222. The Story of Indian Wootz Steel (INVITED), International Conference on History of Indian Science and Technology, Benaras Hindu University, Varanasi, 23-26 January 2007, Varanasi R Balasubramaniam.

223. Guns of Mehrangarh (INVITED) International Conference on Conservation of Arms and Armour, Mehrangarh Fort, 28Feb-01Mar 2007, Jodhpur, R. Balasubramaniam and Ruth Rhynas Brown.
224. The Saga of Indian Cannons (PLENARY LECTURE), National Conference on History of Science, organized by National Commission for the History of Sciences, Indian National Science Academy, New Delhi, 26-28 March 2007. New Delhi, R Balasubramaniam.
225. Preliminary Investigation into Comparative Performance of Titanium based Coatings for Automotive Applications using Biodiesel Blend and Diesel, Proceedings of Internal Combustion Engines Division, Spring Technical Conference 2006, ICES 2006-1974, May 7-10, 2006, Aachen, German, Mritunjay Kumar Shukla, Avinash Kumar Agarwal, Ashish Garg.
226. A Detailed Comparative Study of Ferroelectric Lanthanide Doped Bismuth Titanate Films Prepared by Chemical Solution Deposition and Pulsed-Laser-Ablation, TMS Annual Meeting 2006, San Antonio (USA), 12-16 March 2006, Garg, X. Hu and Z.H. Barber.
227. Comparative Wear Performance of Titanium Based Coatings for Automotive Applications Using Exhaust Gas Recirculation, International Conference on Superhard Coatings, Ein-Gedi, Israel, 27Feb.-1 March 2006, Avinash Kumar Agarwal, Ashish Garg, Dhananjay Kumar Srivastava, and Mritunjay Kumar Shukla.
228. Catalogue and Technical Analysis of Forge Welded Cannons in Deccani Forts (INVITED), National Conference on History of Science, organized by National Commission for the History of Sciences, Indian National Science Academy, New Delhi, 26-28 March 2007. New Delhi, R. Balasubramaniam and S. Jaikishan.
229. R. Balasubramaniam and Shivprasad Khened, Rustless Wonder, One India One People, Volume 9/10, May 2006, pp. 25-38,
230. Spark Plasma sintering and characterisation of ZrO_2-ZrB_2 Nanoceramic composites at 8th International Conference on Nanostructured materials (NANO-06) at IISc, Bangalore, August, 2006, Bikramjit Basu.
231. Sintering, microstructure development and cell adhesion properties of bulk HAp-Ti and HAp-mullite bioceramic composites at the workshop on 'Biomaterials and Biomedical Devices' held at Central Glass and Ceramic Research Institute (CGCRI), Calcutta, India in December 12-13, 2006, Bikramjit Basu.

232. Does Spark plasma sintering always offer ceramics and ceramic composites with better properties? at the satellite Conference on Materials Behaviour: Far from Equilibrium (MBFE 2006) held at Bhabha Atomic Research Centre, Mumbai, India, during December 14-16, 2006, Bikramjit Basu.
233. Spark Plasma Sintered WC-ZrO₂ Nanocomposites: Microstructure and Mechanical Properties during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
234. Synthesis, Phase Stability, Microstructure, Mechanical and In-Vitro Properties of HAp-Mullite Novel Composites for Biomedical Applications during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
235. Hydroxyapatite-Alumina-High Density Polyethylene Composites for Biomedical Applications: Processing and Characterization during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
236. Densification and Properties of TiB₂ with MoSi₂ Binder during 31st International Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, which will be held in Daytona Beach, Florida on January 21-26, 2007, Bikramjit Basu.
237. Correlation between Dihedral Angles at Triple Junctions and Grain Boundary Misorientation Angles in Polycrystals, National Conference on Electron Microscopy and XXXVIII Annual Meeting of Electron Microscope Society of India (EMSI), April 19-21, 2006 (awarded as the best student presentation in Materials Sciences), V. Rajinikanth, Veeranjanyulu Daggubati and Sandeep Sangal
238. Grain Boundary Characterization of AISI 316L Stainless Steel using EBSD', National Conference on Electron Microscopy and XXXVIII Annual Meeting of Electron Microscope Society of India (EMSI), April 19-21, 2006, V. Rajinikanth, Veeranjanyulu Daggubati and Sandeep Sangal
239. Asian Vehicle Emission Control Conference (AVECC)-2006, Jaipur, India, 20-22 September, 2006, Keynote Paper, B.P.Pundir.
240. Better Air Quality (BAQ) - 2006, CAI Asia, Yogyakarta, Indonesia, 11-15 December, 2006, Invited Paper, B.P.Pundir.
241. SAE Fuels and Emissions Conference, Capetown, South Africa, January, 23-25, 2007, Contributed Paper, B.P.Pundir.
242. Indo-US workshop on Sensors and Actuators for Bio-MEMS application, IIT-Kharagpur, December, 2006, Bishakh Bhattacharya.

243. Response of a hard Duffing oscillator to harmonic excitation - numerical and experimental investigation, an invited lecture in International conference on vibration problems, held at BESUS, February 1 -3, 2007, A.K. Mallik.
244. Optical Society of America annual meeting held at Rochester New York in October 2006, K. Muralidhar.
245. 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, December 7-9, 2006, held at IIT Bombay, India, K. Muralidhar.
246. Eleventh Asian Congress of Fluid Mechanics (11ACFM), Kuala Lumpur, Malaysia, May 22-25, 2006, Invited Talk, Large-Eddy Simulation of Flows Concerning Impinging Jets and Bluff Body Wakes, G. Biswas.
247. Eleventh Asian Congress of Fluid Mechanics (11ACFM), Kuala Lumpur, Malaysia, May 22-25, 2006, Chaired a Session on Computational Fluid Mechanics and Flow Visualization, G. Biswas.
248. National Conference on CFD Applications in Power and Industry Sectors organized by the Corporate R&D of BHEL, Hyderabad, November 17-18, 2006, Invited Talk on Mathematical Modeling of Turbulence, G. Biswas.
249. Thirty third National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, December 7-9, 2006, Contributed Paper, Numerical Study of Natural Convection in the Spallation Target Module of an Accelerator Driven Sub-Critical System, K. Arul Prakash, B. V. Rathish Kumar and G. Biswas
250. Thirty third National and 3rd International Conference on Fluid Mechanics and Fluid Power, paper number 1417, IIT Bombay, December 7-9, 2006, Contributed Paper, A Comparison of VOF and CLSVOF Method for Predicting Surface Tension Dominated Two-Phase Flows, G. Tomar , G. Biswas and A. Sharma.
251. Thirty third National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, December 7-9, 2006, Contributed Paper, Large Eddy Simulation of Flow Past Square Cylinder with Fine Grid, M. K. Radle, E.G. Tulapurkara and G. Biswas.
252. Modeling of Free Surface Flows and Bubble Formation in Film Boiling, Invited Talk, National Workshop: CFD Approach on Fluid Flow, Heat and Mass Transfer, IIT Roorkee, April 12-13, 2007, G. Tomar and G. Biswas
253. Micro miniaturization - A Recent Trend, Guest lecture at Annamalai University, October 2006. J. Ramkumar.
254. Non Destructive Evaluation of Advance materials, National workshop on Advance materials, at PEC, Chandigarh, 11-22nd, December 2006, J.Ramkumar.
255. Developments in conductive polymers, Workshop on Advances in materials and material selection in Design, at HBTI Kanpur, March 10-11th, 2007, J.Ramkumar.

256. Development of IPMC, 2nd National workshop on Smart materials for design of intelligent systems and industrial applications, at IIT Kanpur 23-24th March, 2007, J. Ramkumar.
257. Titanium and its machinability, National workshop on machining and machinability of advanced materials (NWMMAM-2007) at CMERI Durgapur, March 29-30, 2007, J.Ramkumar.
258. 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, Mumbai, December 7-9, 2006. Type of participations: Both as an author and chair of a session. A.K. Saha
259. Numerical Methods for Fluid Dynamics (ICFD 07), 9th International Conference, the University of Reading, U.K., 26-29th March, Contributed Paper. S. Sarkar
260. Session Chair and Organizer for SAE World Congress 2007, PFL-20: CI Engine Performance for Use with Alternative Fuels Session, to be held in Detroit, USA April 2007, A.K.Agarwal.
261. National Conference on Design, Dynamics and Manufacturing (NCDDM) 2007, Sant Longowal Institute of Engineering and Technology, Longowal - Dist Sangrur, Punjab, March 16-17, 2007, Delivered the Invited Lecture Modeling of Metal Forming Processes using Finite Element Method : Issues and Challenges, Chaired a Session Member of the Panel for Panel Discussion. Chief Guest at the Valedictory Function, P.M. Dixit.
262. NAMRC conference, May 2006, Milwaukee, USA, N.V.Reddy.
263. Second Japan-India Joint seminar on Micro/nano Manufacturing Science, December 2006, IIT Kanpur, N.V.Reddy
264. National Conference on Design, Dynamics and Manufacturing (NCDDM-2007) March 16-17, 2007, SLIET, Longowal, N.V.Reddy.
265. Nano-finishing Techniques and Pulsating Magnetic Abrasive Brush during International Conference on Machining Science and Technology-2006 (ICOMAST-2006) held at Melaka, Malaysia, 28th - 30th August, 2006, V.K.Jain.
266. Second International Conference on Computational Mechanics and Simulation, 8-10 December 2006, IIT Guwahati, India, S.Basu.
267. Joining Materials with Glass Fiber Reinforced Plastics- an Experimental Study, 19 Austrasian Biennial Conference on the Mechanics of Structures and Materials Nov. 29 to Dec., 2006, University of Canterbury, Christchurch, New Zealand, Rajeev Kumar and Prashant Kumar.
268. First Mid-Year Meeting of the CRSI held at IIT Madras July 12 and 13, 2006 and presented a poster on Synthesis and Characterization of NHC-Stabilized Zinc aryloxide and Zinc Hydroxyaryloxide, G. Anantharaman and K. Elango.

269. First Mid-Year Meeting of the CRSI held at IIT Madras Feb 12 and 13, 2007 and presented a poster on Synthesis and Characterization of NHC-Stabilized Zinc aryloxide and Zinc Hydroxyaryloxide, K. Elango and G. Anantharaman.
270. 37th International Conference on Coordination Chemistry (37th ICC) at Capetown on August-2006. Oral Presentation on the topic Modulation of the Ru-Ru Single Bond by Axial Donors in Diruthenium Paddlewheel Complexes, J. K. Bera.
271. Indo-Japan Joint Workshop on New Frontiers of Molecular Spectroscopy, held in Kobe, Japan, September 24-26, 2006, A. Chandra.
272. Materials Modeling at Different Length Scales, held at BARC, Trombay, Mumbai, October 12-14, 2006, A. Chandra.
273. Theoretical Chemistry Symposium - 2006, held at Trichy, December 11-13, 2006, A. Chandra.
274. National Symposium on Computational Chemistry, held at Thiruvananthapuram, December 15, 2006, A. Chandra.
275. Symposium on Trends in Computational Materials Science, held in Bangalore, February 15-17, 2007, A. Chandra.
276. Structure and Dynamics of molecules & Clusters - 2007, held at Corbett National Park, February 23-25, 2007, A. Chandra.
277. HPC User Forum Conference, held in New Delhi, February 28-March 01, 2007, A. Chandra.
278. 37th ICC, Cape Town August 13-18th 2006. Lecture on August 17th 2006, V. Chandrasekhar.
279. International Conference in Emerging Trends in Chemical Sciences on the occasion of 150th anniversary of University of Mumbai. Mumbai. Jan 24th 2007, V. Chandrasekhar.
280. CRSI-RSC meeting. New Delhi. Feb 1 2007, V. Chandrasekhar.
281. IITK REACH Symposium, Parwanoo, Himachal Pradesh, March, V. Chandrasekhar.
282. Thermans 2006, 6-10 Feb 2006, Jaipur, Thermal, Structural and Electrical Studies of Nanostructured PZT Synthesized by Low Temperature Technique, Invited Oral, N. S. Gajbhiye.
283. Int. Conf. on Nanoscience and Technology 2006, 16-18 March, New Delhi, Characterization of Nanostructured PZT Prepared by Chemical Routes; N. S. Gajbhiye, P. K. Pandey, Lyci George and Abhishek Kumar,
284. Int. Conf. Nanoscience & Technology, March 16-18, 2006, New Delhi Synthesis Characterization & Magnetic Interactions of e-Fe₃N-CrN Nanorods, Invited Talk.

285. National Seminar on Advances in Electroceramics 2006, ARDE, Pune, 10-11 April 2006, Dielectric Properties of Nanostructured PZT, Invited talk, N. S. Gajbhiye.
286. 11th Asian Symp. Information Display, Oct. 8-11, 2006, New Delhi, Oral talk, N. S. Gajbhiye.
287. Int. Conf. NanoMaterials Electronics, Nov. 27-29, 2006, C-Met-Pune. Oral talk, N. S. Gajbhiye.
288. Int. Symp. on Materials Chemistry, Dec. 4-8, 2006, BARC-Mumbai, Invited talk, N. S. Gajbhiye.
289. Int. Conf. on the Physics of Mesoscopic and Disordered Materials, December 4-8, 2006, IIT-Kanpur. Oral Talk, N. S. Gajbhiye.
290. Indian Science Congress, Annamalai University, Chidambaram, Jan. 3-7, 2007, Coordinator & Special Invited Lecture on the theme 'Nanotechnology', N. S. Gajbhiye.
291. Int. Conf. on Modern trends in Chemistry, University of Mumbai, January 23-25, 2007. Chairman of the session & Oral Talk, N. S. Gajbhiye.
292. Int. Indo-US Workshop on Advanced Oxides and Nanostructured Materials, February 19-22, 2007, IHC-New Delhi. Invited Talk, N. S. Gajbhiye.
293. 2nd Discussion meeting on Spectroscopy and Dynamics of Molecules & Clusters, The International Centre, Dona Paula, Goa, India, Mar.30-Apr.1 (2006), D. Goswami.
294. International Symposium on Quantum Optics, Physical Research Labs, Ahmedabad, 24-27 July (2006) , D. Goswami.
295. Wellcome Trust Senior Fellows Meeting, Wellcome Trust, 215 Euston Road, London, UK, 25-26 October (2006) , D. Goswami.
296. 7th Asian International Seminar on Atomic and Molecular Physics, Indian Institute of Technology, Chennai, 4-7 December (2006) , D. Goswami.
297. 2007 Reach Symposium, Hotel Timber Trail Heights, Parwanoo, HP, March 7-9 (2007) , D. Goswami.
298. The first symposium of the Indian peptide society at Hyderabad February 21-23 2007, R. Gurunath.
299. CRSI: Delhi University, B. D. Gupta.
300. Plenary lecture at Second International conference on Heterocyclic Chemistry Conference at Jaipur: 16-19 December, 2006, F. A. Khan.
301. Invited lecture at International Conference on Structure and Dynamics 2006, Dept of Chemistry, University of Calcutta: 14-16 December, 2006, F. A. Khan.
302. Invited Talk on Rational Approaches to Engineering Organic Molecular Photobehavior and Organization, First India-Taiwan Conference on the Frontiers of Organic Chemistry, Hsinchu, Taiwan, January 07-11, 2007, J. N. Moorthy.

303. Invited Lecture: R. N. Mukherjee, Modeling Hydrolytic Enzymes. Phosphate Ester Hydrolysis by Phenoxo-bridged Dinickel(II) and Ethyl Acetate Hydrolysis by Hydroxo-bridged Dicopper(II) Complexes, R. N. Mukherjee.
304. The 3rd Asian Biological Inorganic Chemistry Conference (AsBIC-III), Nanjing, China (October 31 – November 3, 2006), R. N. Mukherjee.
305. Session Lecture: A. K. Sharma, A. Mukherjee, F. Lloret, and R. N. Mukherjee, Linear Homo- and Heterotrinnuclear and Homodinuclear Complexes with Phenolate-/Acetate-Bridging. Structures and Magnetism International Conference on Coordination Chemistry (ICCC37), Cape Town, South Africa (August 13 – 18, 2006)
307. Biocompatibility of water soluble multiwalled carbon nanotube on the growth of Escherichia-coli in relevance to its use in carrier systems for the delivery of therapeutic molecules, Humboldt Kolleg, Palampur, March 24, 2006, S. Sarkar.
308. On the Aspect of Modeling Molybdoenzymes, Chemistry Department, University of Ulm, 7th July, 2006 Germany, S. Sarkar.
309. The enzyme behind the fishy smell and more, Chemistry Department, University of Kiel, 12th July, 2006 Germany, S. Sarkar.
310. The wet side of carbon nanotube, Chemistry Department, University of Bremen, 14th July, 2006 Germany, S. Sarkar.
311. Modeling Copper Trafficking Proteins, Oxidative Stress and “Ostwald’s Rule of Stages, Inorganic Chemistry Department, IACS, Kolkata, 17th September, 2006, S. Sarkar.
312. Carbon nanotube and its diverse use , Biotechnology Department, Heritage Institute of Technology, Kolkata, 9th November, 2006, S. Sarkar.
313. Modeling Copper Trafficking Proteins, Oxidative Stress and “Ostwald’s Rule of Stages, School of Chemistry, University of Hyderabad, 9th January, 2007, S. Sarkar.
314. Evolutionary Bioinorganic Chemistry, School of Chemistry, University of Hyderabad, 11th January, 2007, S. Sarkar.
315. Water soluble carbon nanotube and drug delivery, Discovery Laboratory, Dr. Reddy’s Laboratory, 12th January, Hyderabad, 2007, S. Sarkar.
316. Water soluble multiwall carbon nanotube from candle soot and its drug delivery: A study on the growth of Escherichia-coli, Physics Department, Chandigarh, March 30, 2007, S. Sarkar.
317. Modeling Copper Trafficking Proteins and New Perspective on Oxidative Stress, presented in the International conference on oxidative stress and aging, Kuwait University, 18-21 March , 2007, S. Sarkar.
318. Modeling Molybdoenzymes, Chemistry Department, University of Gorakhpur, 28th March, 2007, S. Sarkar.

319. Frontiers in Chemistry workshop, Department of Chemistry, Government Model Science College, Jabalpur, Sep. 15-16, 2006, N. Sathyamurthy.
320. IUPAC Discussion Meeting on Hydrogen Bond, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, Sep. 18, 2006, N. Sathyamurthy.
321. National Symposium on, Advances in Chemistry and Environmental Impact, Department of Chemistry, North-Eastern Hill University, Shillong, November 2-3, 2006, N. Sathyamurthy.
322. 7th Asian International Seminar on Atomic and Molecular Physics, Indian Institute of Technology Madras, Chennai, December 4-7, 2006, N. Sathyamurthy.
323. Theoretical Chemistry Symposium 2006, Bharathidasan University, Tiruchirappalli, Dec. 11-13, 2006, N. Sathyamurthy.
324. Indian National Science Congress, Annamalai University, Annamalainagar, Jan. 5-7, 2007, N. Sathyamurthy.
325. Discussion meeting on Spectroscopy and Dynamics of Molecules and Clusters, Corbett National Park, Uttaranchal, Feb. 23-25, 2007, N. Sathyamurthy.
326. Reach2007, Timber Trails, Himachal Pradesh, March 7-10, 2007, N. Sathyamurthy.
327. Spectroscopy and Dynamics of Molecules and Clusters IV, Corbet National Park, Uttarkhand, India, February 2007, K. Srihari.
328. Theoretical Chemistry Symposium X, Tiruchirapalli, December 2006, K. Srihari.
329. IITK-REACH Symposium, Parwanoo, March 2007, K. Srihari.
330. Delivered a lecture at the International Carbohydrate Symposium at Whistler, BC, Canada (July 22-28, 2006) on July 25, 2006, Y.D. Vankar.
331. Delivered a lecture at MS University Baroda, in a National Seminar on Chemistry Research on October 16, 17 2006, Y.D. Vankar.
332. Delivered a lecture at Syngenta Research & Technology Centre inauguration meeting on December 1, 2006 at Santa Monica Site, Goa, Y.D. Vankar.
333. International Conference in Coordination Chemistry, Cape Town, South Africa, August 13-19, 2006, S. Verma.
334. Annual conference of Bharat Ganita Parisad, Lucknow : Invited talk, "Role of operator spaces in Harmonic Analysis" , also chaired a session, Tewari, U.B.
335. Projective Modules and Complete Intersections, December 28-30, 2006, Tata Institute of Fundamental Research, Mumbai, A.K. Maloo.
336. International Conference on Modern Stochastic Theory: Theory and Applications, Department of Probability Theory and Mathematical Statistics, Kyiv National Taras Shevchenko University, Kiev , Ukraine in June, 2006,

- contributed paper: 'Consistent estimation of regression coefficients in measurement error model under exact linear restrictions' Shalabh.
337. Fourth International Workshop on Total Least Squares and Errors-in-Variables Modeling held at Katholieke University, Leuven, Belgium in 2006, contributed paper - On the estimation of linear ultra structural model when error variances are known, Shalabh.
 338. Third Autumn Symposium of the Research Training Group "Statistical Modelling" held at University of Dortmund, Germany in November 2006, contributed paper - Parametric estimation in measurement error models , Shalabh.
 339. International Conference on Complex Systems (ICCS06), Boston, USA, June 25-30, 2006, contributed paper - Stability of simulation of highly uneven curves and surfaces using fractal interpolation Kapoor, G.P.
 340. Recent advances in optimization, theory and applications, Department of Mathematics, University of Delhi, 27-28, Sharma, P.
 341. ICM 2006 at Madrid, Spain, Madan,S.
 342. International conference MAFEL 2006, at BRUNEL University, U.K. (June 12-16,2006) Contributed paper Rathish, B.V.K.
 343. International Conference on Logic, Navya and Applications: A Homage to Bimal Krishna Matilal , January 3-6, 2007, Kolkata, M. Banerjee.
 344. SIAM Conference on Analysis of Partial Differential Equations, July 10-12, 2006 at Boston, Massachusetts,, Contributed paper, Ritesh, K.
 345. National conference on Differential equations, Perier university, Salem, Sept. 28-29, 2006, Invited Talk - Non Linear Elliptic Equations: An Overview, V. Raghavendra
 346. International Conference on Bioinformatics and Computational Biology (BIOCOMP' 06) held at LAS VEGAS, NV, USA during June 26-30, 2006, contributed paper, Prawal Sinha
 347. International Conference on Mathematical Modeling and Computer Simulation, held at Jaipur, India, during Dec. 12-15, 2006 contributed paper,. Prawal Sinha
 348. ICAPM-2006, May28 - Jun4, Marrakech, Morrocco, contributed paper,B.V. Rathish Kumar
 349. 2nd IMT-GT Regional Conference on Mathematics, Statistics and Applications,Universiti Sains Malaysia, Penang, Malaysia (June 2006), contributed paper, Bhupendra Gupta
 350. Fourteenth International conference of the Forum for Interdisciplinary Mathematics at IIT Madras during 6-8 January 2007, contributed paper,Vikas Gupta

351. The Fourteenth International Conference of the Forum for Interdisciplinary Mathematics 2007, IIT Madras, 06-08 January 2007, Contributed Paper Ramesh, V.P.
352. International Conference on Logic, Navya and Applications: A Homage to Bimal Krishna Matilal, January 3-6, 2007, Banerjee, M.
353. International Conference organized by International Indian Statistical Association (IISA) at the Cochin University of Science and Technology, Cochin, 2007, Contributed Paper - Mitra, A., Prasad, A., Kundu, D.
354. Annual conference of Indian Mathematical Society held at Rani Durgavati University, Jabalpur, December 26-29, 2006 - Invited Talk, Santhanam, G.
355. Annual conference of Bharati Ganita Parisad, Lucknow, Nov. 2006. Invited talk "On some work of Lennart Carleson, Abel Prize 2006" Madan, S.
356. IITK REACH Symposium held at Kalka, India during March 7-10, 2007, Poster presentation, Anurag Prasad
357. National Symposium on Combinatorics, Number Theory and Geometry, 15-20 January, 2007 held at Mumbai University - Invited talk "Sharp Upper Bound for the first eigenvalue of closed hypersurfaces in rank-1 symmetric Spaces" Santhanam, G.
358. ESMRMB 23rd Scientific meeting, Warsaw, Poland, 21-23 September 2006, Contributed Paper -Purwar, A
359. 38th International Conference on Combinatorics, Graph Theory and Computing held in Florida Atlantic University, March 5 - 9, 2007, Contributed Paper - On the existence of constrained labeling for locally finite graphs, B. Bhattacharyya.
360. International Conference on Bioinformatics and Computational Biology (BIOCOMP' 06) held at LAS VEGAS, NV, USA during June 26-30, 2006 contributed paper - Mucus Transport in the lung due to cough: Turbulent flow models with viscoelastic effects, Prawal Sinha
361. 14th Annual conference of Intl. Soc. Mag. Resonance in Med., Seattle, USA, May 7 -14, 2006, Contributed Paper - Rathore, R.K.S.
362. International Indian Statistical Association Conference, held at Cochin University of Science and Technology, Jan 02-05, 2007, invited talk : On Hybrid Censored Weibull Distribution, D. Kundu
363. Oral and Poster Presentation: Crossover in pinning regimes of the vortex solid and the peak effect at the 11th International workshop on Vortex Matter at Wroclaw, Poland, July 3rd - 8th, 2006. (Satyajit Banerjee)
364. Chaired a session: At the 11th International workshop on Vortex Matter at Wroclaw, Poland, July 3rd -8th, 2006. (Satyajit Banerjee)
365. Poster presentation: Pinning regimes in the vortex solid and the crossover between them in single crystals of 2H-NbSe₂ at the 8th International Conference

- on Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Dresden, July 9th -14th , 2006. (Satyajit Banerjee)
366. Invited talk: Instabilities in Superconductors, National conference on Emerging trends in engineering materials, Thapar Institute of Engineering and Technology, Patiala, Punjab, Feb 1-3, 2007 (Satyajit Banerjee)
367. Chaired a session: At the National conference on Emerging trends in engineering materials, Thapar Institute of Engineering and Technology, Patiala, Punjab, Feb1-3, 2007. (Satyajit Banerjee)
368. Invited Oral Presentation: Theme Meeting on High Current Ion sources (HCIS 06), Variable Energy Cyclotron Center, Department of Atomic Energy, Kolkata, April 06-07, 2006 (Sudeep Bhattacharjee)
369. Invited Oral Presentation: Plasma Science Society of India-Institute for Plasma Research (PSSI-IPR) workshop on National Fusion Programme: ITER and Beyond, Institute for Plasma Research, Gandhinagar, November 08-10, 2006. (Sudeep Bhattacharjee)
370. Contributed Papers: Indian Particle Accelerator Conference-2006, Bhabha Atomic Research Center and Tata Institute of Fundamental Research, Mumbai, November 1-4, 2006 (Sudeep Bhattacharjee)
371. Contributed Papers: 21st National Symposium on Plasma Science and Technology, Malaviya National Institute of Technology, Jaipur, December 19 - 22, 2006 (Sudeep Bhattacharjee)
372. Invited talk at the National Workshop "Modeling infectious Diseases: from cell to society" Institute of Mathematical Sciences, Chennai, September 4-6, 2006. (D Chowdhury)
373. Invited talk at the International workshop "Frontiers of Nanobiotechnology" Allahabad University, December 1, 2006.(D Chowdhury)
374. Statphys-Kolkata VI (International Conference on Statistical Physics), Radisson Resort, Raichak, West Bengal, India, Invited Speaker. (Amit Dutta)
375. Materials and Mechanism of superconductivity-M2S-HTSC-VIII, July 09 to July 14, 2006 Dresden, Germany (Poster presentation) (Z. Hossain)
376. 8th Prague Colloquium of F-electron systems, Prague, Czech Republic, 8-11 September, 2006 (Oral presentation). (Z. Hossain)
377. DAE particle physics symposium at IIT Kharagpur, December 11-15, 2006. (Pankaj Jain)
378. International workshop in Theoretical High Energy Physics , IIT Roorkee, March 15-20, 2007, Plenary Talk, Composite structure and causality. (S. D. Joglekar)
379. First Mexican Encounter on Space-time Microstructure, Patzcuaro, Mexico, November 06-10, 2006, Invited Talk, Regularizations of Field Theory, non-local Regularization (S. D. Joglekar)

380. Workshop on Electronic structure of solids, Lonavala, February 07-10, 2007, chaired a session (R. Prasad)
381. Workshop on computational materials science, Bangalore, February 15-17, 2007. Gave an invited talk, chaired a session. (R. Prasad)
382. Reach Symposium, Kalka, March 07-10, 2007, Gave an invited talk, (R. Prasad)
383. Workshop on multiscale modeling of materials, BARC, October 12-14, 2006. Gave an invited talk, (R. Prasad)
384. Workshop on magnetic materials, Kolkata January 08-10, 2007 Gave an invited talk, (R. Prasad)
385. German Physical Society March Meeting, Dresden, 27-31, March 2006, Presentation: U-controlled Frustration in the Triangular-Lattice Antiferromagnet (Avinash Singh)
386. Dynamo Using Energy Fluxes, in Nonlinear Cosmology: Turbulence and Fields, held at ICTP in 9 May-12 May 2005. (M. K. Verma)
387. Mode-to-mode Energy Transfers and Patterns in Convection, in National Conference on Nonlinear Systems and Dynamics, Aligarh, 2005. (M. K. Verma)
388. Multicolored Coherent Population Trapping, International Symposium on Quantum Optics-2006 (ISQO-06), July 24-27, 2006, Physical Research Laboratory, Ahmedabad. (H.Wanare)
389. Multicolored Atomic Coherence, Sixth DAE- BRNS National Laser Symposium (NLS-6), December 05-08, 2006, Raja Ramanna Center for advanced Technology, Indore. (H.Wanare)
390. Conference cum Seminar on the *Emerging Trends in Physics* September 20-23, 2006 held at Khalsa College, Delhi University Talk title: Signatures of spin glass freezing in NiO nanoparticles (Dr. K.P. Rajeev)
391. Plasmonic properties of checkerboards of negative ϵ and μ , 9th International conference on near-field optics, nanophotonics and related techniques, Lausanne, Switzerland, 10-15 Sept. 2006 (Poster presented by Prof. O.J.F. Martin in our absence), S.A. Ramakrishna, S. Chakrabarti and S. Guenneau.
392. Bianisotropy of symmetric split ring resonators at optical frequencies., 9th International conference on near-field optics, nanophotonics and related techniques, Lausanne, Switzerland, 10-15 Sept. 2006, S.A. Ramakrishna and S. Chakrabarti.
393. Negative refractive index of metamaterials at optical frequencies., MRS fall Meeting 2006, Symposium R (27th to 30th Nov. 2006, Boston) (Invited Lecture), S. A. Ramakrishna, and S. Chakrabarti.
394. Understanding boundary induced phase transitions in asymmetric simple exclusion processes through boundary layer analysis -Interantioanl conference "StatPhys VI", Kolkata from 5th-9th January (2007), Sutapa Mukherjee

395. Boundary layer analysis for asymmetric simple exclusion processes - Colloquium at BHU on 19th March (2007) Sutapa Mukherjee
396. International Conference on 9th Asian Symposium on Information Display (ASID'06), October 2006, held at New Delhi on "OLED Fundamentals" (Tutorial) Y. N. Mohapatra

SEMINAR PRESENTED

1. Rotor blade dynamics and rotor/ fuselage dynamics at Regional Center for Military Airworthiness (RCMA) Chandigarh, 3BRD, Airforce, Sept. 2006, C. Venkatesan.
2. Helicopter Dynamics at Department of Aerospace Engineering, Punjab Engineering College, Sept. 2006, C. Venkatesan.
3. Spatio-temporal wave dynamics and signal propagation in fluid dynamical system- at Technischen Universitat Wien, at Vienna, 21 July, 2006, Tapan K. Sengupta.
4. Excitation of shear layer instability in flow past a cylinder at low Reynolds Numbers, 11th Asian Congress of Fluid Mechanics (ACFM) 22-26 May, Malaysia, 2006, S.Mittal.
5. Shape Optimization for Fluid Flow Problems, 11th Asian Congress of Fluid Mechanics (ACFM) 22-26 May, Malaysia, D.N. Srinath and S.Mittal.
6. Vortex Induced Oscillations at Low Reynolds Numbers: Effect of Blockage, 11th Asian Congress of Fluid Mechanics (ACFM) 22-26, May Malaysia, 2006, T.K. Prasanth S. Behara and S. Mittal.
7. Effect of blockage on Vortex induced Vibrations at Low Reynolds Numbers, in 7th World Congress on Computational Mechanics (WCCM), Hyatt Regency Century Plaza Hotel, Los Angeles, California, USA July 16-22, 2006, S.Mittal , T.K. Prasanth and S. Behara.
8. Finite Element Methods in Fluid Flows Annual Convention, Indian National Academy of Engineering, INSA New Delhi December 8-9, 2006, Sanjay Mittal.
9. Shape Optimization for low Reynolds Number Flows, 14th International Conference on finite Elements in Flow Problems, FEF07, Santa Fe New Mexico, USA March 26-28, 2007, D.N. Srinath and S Mittal.
10. Finite Element Methods in Fluid Flows invited lecture at Civil Engineering, Chuo University, Tokyo April 2, 2007, Sanjay Mittal.
11. Finite Element Methods in Fluid Flows, Aerospace Technologists Meet February 1-2, IIT Madras, Chennai, 2007, Sanjay Mittal.
12. Aerodynamics of Wraparound Fins for Artillery Rockets, ARDE, Pune, S.K. Gupta.

13. Parameter Estimation Using Conventional & Unconventional Methods, DRDL, Hyderabad, S.K. Gupta.
14. Emissions in Gas Turbine Combustors: Effects of Spray Characteristics, Workshop on Modeling Diagnostics and Control of Pollutant Formation and Emission in Combustion, under the auspices of the Combustion Institute (Indian Section), Jadavpur University, Kolkata, Jan. 14-15, 2006, Kushari A.
15. Computation of solid-fluid coexistence conditions by thermodynamic integration, Chemical Engineering Department, IIT Kanpur, April 21, 2006, P. A. Apte.
16. Colloidal and multiphase systems for nanomaterials, Invited talk in the Workshop on Colloids and Materials Chemistry, Regional Research Laboratory (RRL), Bhubaneswar, January, 2007, R. Bandyopadhyaya.
17. Structure and Dynamics in Multiphase Systems for Nanomaterials Synthesis and Applications, Invited talk in the First Indo-UK Nanotechnology Conference, British Council and S. N. Bose National Centre for Basic Sciences, Calcutta, November, 2006, R. Bandyopadhyaya.
18. Nanostructured composites, short-term course on Recent Trends in Nanocomposites, Invited talk in short term course on Advanced Materials, IIT Kanpur, November, 2006, R. Bandyopadhyaya.
19. The world of nanoparticles and nanocomposites, Invited talk in the Nanotechnology Workshop, IIT Madras, October, 2006, R. Bandyopadhyaya.
20. From molecules to materials: Surfactants as building block, contributing talk in National Chemical Laboratory, Pune, April, 2006, R. Bandyopadhyaya.
21. Gene expression profiling and gene network analysis, Indo-US workshop on Computational Optimization and Analysis of Systems, IIT Kanpur. Jauray, 2007, G. S. Sikarwar, R. Verma and S Garg.
22. From clustering expression data to gene network reconstruction: array informatics using mathematical programming, CSJM University, February 2007, S Garg.
23. Textured Functional Materials, IIT Kanpur Reach Symposium 2007, A. Ghatak.
24. Chinese Petroleum Corporation, Kaohsiung, Taiwan, July, 2006, J. P. Gupta.
25. Gujarat State Petroleum Corporation, Gandhinagar, March 2007, J. P. Gupta.
26. Hung Kuang University, Taichung, Taiwan, July 2006, J. P. Gupta.
27. National Cheng Kung University, Tainan, Taiwan, J. P. Gupta.
28. Aging dynamics in soft glasses, Indian Institute of Technology - Bombay, November 2006, Y.M. Joshi.
29. Aging dynamics in soft glasses, Raman Research Institute, Bangalore, November 2006, Y.M. Joshi.
30. Aging dynamics in soft glasses, Université du Maine, France, February 2007, Y.M. Joshi.

31. Stability of viscoelastic shear flows past deformable solids, Workshop on Applied mechanics and mathematics, Department of Mechanical Engg, IIT Kanpur (March 2007), V. Shankar.
32. Self-organized meso fabrication with polymers, Central Glass and Ceramic research Institute (Kolkata); May 2006, A. Sharma.
33. University of Erlangen-Nuernberg; October 2006, A. Sharma.
34. National Institute of Standards and Technology (NIST, Maryland); July 2006, A. Sharma.
35. Presented Models of Vehicular Traffic: An Engineering Perspective; IIT Delhi, October 2006, Chakraborty, P.
36. Presented Optimization Problems in Transportation: Some Examples; IIT Kharagpur, January 2007, Chakraborty, P.
37. Presented Models of Vehicular Traffic: An Engineering Perspective; University of North Carolina at Charlotte, USA, January, 2007, Chakraborty, P.
38. Determination of Microbial Ecology by Deconvolution of PLFA-FAME Signature of Mixed Culture, IIT Bombay, April 4, 2007, S. Guha.
39. Presented Remote Sensing and its applications, GPG Girls College, Kanpur, 19 January 2007 (Invited presentation), Lohani, B.
40. Presented Research avenues unfolded by LiDAR technology, Map World Forum 2007 Hyderabad, 24 January 2007 (Invited presentation), Lohani, B.
41. Search for Evidence of Past Earthquakes Similar to the 2004 Event: Paleoseismological Surveys in Andaman Islands and Rakhine Coast, Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract U52A-06, 2006, Satake, K, Y Okamura, M Shishikura, T Aung, H Kayanne, Y Ikeda, T Echigo, J N Malik, S Basir, G Chakraborty, W Swe, T Swe, S Tun, H Saw.
42. Active fault influence on the evolution of drainage and landscape: Evidence from frontal areas along Northwestern Himalaya, India. 3rd AOGS annual meeting at Singapore, July 2006. p. 950/1202, 2006, Malik, J. N.
43. Probable occurrence of Paleo-tsunami deposit: Evidence from preliminary trench investigations around Port Blair, South Andaman, India. 3rd AOGS annual meeting at Singapore, July 2006, p. 932/1202, 2006, Malik, J. N.
44. Transient Uplift Since the 2004 Sumatra-Andaman Earthquake and Deformation Cycle in the Andaman Islands. 3rd AOGS annual meeting at Singapore, July 2006, p. 925/1202, 2006, Shishikur, M., Satake, K., Ikeda, Y., Kayanne, H., Echigo, T., Kamataki, T., and Malik J. N.
45. Coseismic Land-level changes caused by 26 December, 2004 Sumatra earthquake and evidence of paleotsunami deposits (?) in Andaman and Nicobar Islands, India. 100th Anniversary 1906 San Francisco Earthquake conference at San Francisco, April, 2006, 2006, Malik, J. N., and Murty, C. V. R..

46. Attended INAE National Seminar on Engineering Response to Hazards of Terrorism at IIT Kanpur during 25-26 September 2006, S. K. Jain.
47. Keynote Speaker, International Disaster Management Symposium :: Culture of Prevention, 18 January 2007, Kobe, JAPAN
48. Special Presentation, World Housing Encyclopedia Initiatives in World Housing Earthquake Safety, Special Session on Housing Safety in Developing Countries, 8th US National Conference on Earthquake Engineering, 19-21 April 2006, San Francisco, USA
49. Luncheon Speaker, Future of World Housing Encyclopedia, Business Luncheon of the Earthquake Engineering Research Institute, USA, during the 8th US National Conference on Earthquake Engineering, 19-21 April 2006, San Francisco, USA
50. Presenter, Dependence of Ductility and Energy Dissipation on Limiting Strain States in Seismic Design of RC Columns, during the 13th World Conference on Earthquake Engineering, 1-6 August 2006, Vancouver, CANADA
51. Speaker, Seismic Design of Steel Plate Shear Walls in Steel Frames, 3rd Indo-German Workshop and Theme Meeting on Seismic Safety of Structures, Risk Assessment and Disaster Mitigation, 12-13 March 2007, BARC, Bombay
52. Invited Speaker, International Roundtable on Lessons from Natural Disasters, Policy Issues and Mitigation Strategies, 8-12 January 2007, Vellore, India
53. Invited Speaker & Chief Guest, Role of Engineers in Disaster Management, Engineers's Day Celebration, 14 September 2006, Institution of Engineers (India), Indore Chapter
54. Invited lecture on 'River interlinking: impact on earth systems', Regional meeting of the North Indian Chapter of the Geological Society of India at BSIP, Lucknow on 17th July, 2006, Rajiv Sinha.
55. Keynote lecture on 'Calcretes in Ganga Plains: a proxy for paleoprecipitation and paleovegetation (MIS 3-5)', International conference on 'Changing Scenario in Paleobotany and allied subjects', Birbal Sahni Institute of Paleobotany Lucknow, November 15-17, 2006. Rajiv Sinha.
56. Invited lecture on 'Active tectonics and alluvial rivers: concepts, methods and examples' SERC School on 'Crustal Deformation and Tectonic Geomorphology: Module 3, Wadia Institute of Himalayan Geology Dehradun, 6-20th Feb. 2007, Rajiv Sinha.
57. Atmospheric Nucleation of Aerosols, Center for Climate System Modeling, The University of Tokyo, July 28, 2006, Tripathi, S.N.
58. Atmospheric Pollution, Dept. of Chemical Engineering, Institute of Technology, Banaras Hindu University, Varanasi, November 06, 2006, Tripathi, S.N.

59. 2-day workshop on Embedded Wireless Sensors, as part of ICTP-ITU-URSI School on Wireless Networking for Scientific Applications in Developing Countries, ICTP, Trieste, Italy, February 20-21, 2007, Bhaskaran Raman.
60. Bhaskaran Raman, an Introduction to WiFi (IEEE 802.11), iSync - Communication Technology Workshop, 25 August 2006, Punjab Engineering College, India, Bhaskaran Raman.
61. IPv6 Tutorial (A full-day tutorial), at Punjab Engineering College, Chandigarh in August 2006, at MNNIT Jaipur in September 2006, Dheeraj Sanghi.
62. Transcript: An Encrypting File System at more than 10 colleges in India, Dheeraj Sanghi.
63. An Introduction to IPv6, at more than 10 colleges in India, Dheeraj Sanghi.
64. Why should CSE students go for MTech/PhD, at more than 30 colleges in India, Dheeraj Sanghi.
65. Digital Gangetic Plain, at Microsoft Wireless Summit, Goa, April 2006, Dheeraj Sanghi.
66. Simplifying Active Memory Clusters by Leveraging Directory Protocol Threads, Workshop on Chip-multiprocessors held in conjunction with the 13th International Conference on High-Performance Computing, December 2006, Mainak Chaudhuri.
67. Simplifying Active Memory Clusters by Leveraging Directory Protocol Threads, Invited speaker, Indian Institute of Technology, Kharagpur, October 2006, Mainak Chaudhuri.
68. Integrated Memory Controllers with Parallel Coherence Streams, Workshop on Cutting-edge Computing held in conjunction with the 13th International Conference on High-Performance Computing, December 2006, Mainak Chaudhuri.
69. Integrated Memory Controllers with Parallel Coherence Streams, Invited speaker, Indian Institute of Science, Bangalore, December 2006, Mainak Chaudhuri.
70. Modelling Embryogenesis, Invited talk, Workshop on Bioinformatics, IET, Kanpur, February 23-24, 2007, Mainak Chaudhuri.
71. Determinant Versus Permanent, Seminar given at ICM Madrid, UCSD, CalTech, UCLA, Berkeley, Stanford, Manindra Agrawal.
72. Primality Tests Based on Fermat's Little Theorem, Invited talk given at 7th ICDCN, Guwahati, Manindra Agrawal.
73. Finite Rings and Integer Lattices, Series of talks given at Bellairs Institute, Barbados, Manindra Agrawal.
74. A Short History of PRIMES is in P, Talk at ICALP, Venice, Manindra Agrawal.

75. Multimodal Biometrics System- A Step towards Individual Security, National Workshop on Security held at B C Roy Engineering College, Durgapur, India, November 2006, Phalguni Gupta.
76. Information Technology for Individual Security - A Step towards National Security, IETE Seminar held at IIT Kanpur, November 2006, Phalguni Gupta.
77. Mobile IP and routing issues, M-COMP 2006 National Conference on Mobile Computing, September 22-23, 2006, Organised by IEEE Kerala Section, Ratan Kumar Ghosh.
78. Multicore curriculum development in India at Intel Workshop on Multicore curriculum, May 2006, Portland, Oregon, Sanjeev Kumar Aggarwal.
79. Multicore curriculum at IIT Kanpur at (i) Intel Multicore Development Workshop, Jaipur Sep 2006 (ii) Intel Asia Academic Forum, Malaysia, Nov 2006 (iii) Intel Developers Forum, Bangalore, Oct 2006 (iv) Intel Multicore workshop for Teachers, Bangalore, Dec 2006, Sanjeev Kumar Aggarwal.
80. Presentation on Fingerprint Separation, 11th April 2007, Hyderabad, India, P. K. Kalra.
81. Invited Talk on Fingerprint separation, 1st December, 2006, 3rd International Workshop on Biometrics, IIT Kanpur, India, P. K. Kalra.
82. Invited presentation on Conceptualization of Power exchange in India - Solutions and challenges, 22 Feb. 2007, National regional load dispatch center (NRLDC), New Delhi, India, P. K. Kalra.
83. Delivered a key note lecture on 27th Dec. 2006 on Indian Power And Energy Sector Development: Present Scenario & Few Challenges in the 14th National Power Systems Conference (NPSC), IIT Roorkee, 27-30 December, 2006, S. C. Srivasatava.
84. Delivered an invited lecture on 'Secure Operation of Power System in Electricity Markets Power System Restructuring' at Asian Institute of Technology Bangkok, Thailand on 4th November 2006, S. C. Srivasatava.
85. Delivered an invited lecture on 'Strengthening Industry-Academia Collaboration' during Technology Summit Meet of Crompton Greaves of India Ltd. at Mumbai on 8th Feb. 2007, S. C. Srivasatava.
86. Delivered an invited lecture Introduction to Power Electronics in AICTE sponsored Staff Development Programme on Recent Trends and Applications in Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
87. Delivered an invited lecture Multi-level Converters in AICTE sponsored Staff Development Programme on Recent Trends and Applications in Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
88. Delivered an invited lecture DC and AC Variable Speed Drives in AICTE sponsored Staff Development Programme on Recent Trends and Applications in

- Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
89. Delivered an invited lecture Unified Power Quality Conditioner for Power Distribution Systems in AICTE sponsored Staff Development Programme on Recent Trends and Applications in Power Electronics and Drives, U.C.E. Burla, Sambalpur, June 19- July 1, 2006, S.P.Das.
 90. Delivered an invited lecture Modern Trends in Power Electronics in PSIT, Bhauti, Kanpur, Nov. 2006, S.P.Das.
 91. Delivered the seminar entitled Matrix Converter-fed High Performance Synchronous Motor Drive System in GE John F. Welch Technology Center, Bangalore, December 19, 2006, S.P.Das.
 92. Extended course on High Voltage Engineering, UPTEch, Kanpur, July, 2006, N. Gupta.
 93. Basics of High Voltage Engineering, KCNIT, Banda, 2006, N. Gupta.
 94. Three-day Workshop on Rotating Machinery Insulation, BHEL, Bhopal, Jan 2007, N. Gupta.
 95. On Universal Compression, Shannon's Entropy and Individual Sequences on February 11, 2006 in TECHNEX (Students' Technical Festival held at BHU-IT, Varanasi), R. K. Bansal
 96. Introduction to Continuous Speech Recognition, National Conference on Communication, (IIT, Kanpur), Jan. 2007, S. Umesh.
 97. Spread Spectrum for Mobile Communications, National Workshop on Mobile Communications at Ujjain Engineering College jointly organized with SGSITS, Indore, 16th to 18th March 2007, A. K. Chaturvedi.
 98. Visual Surveillance Technology, Workshop on use of Signal and Image Processing and its Application to Display Technology, May 6, 2006, IIT Bombay, K. S. Venkatesh.
 99. Video Surveillance for Counterterrorism, INAE Seminar on Engineering Response to Hazards of Terrorism, 25-26 September. 2006, IIT Kanpur, K. S. Venkatesh.
 100. Automation of Video Surveillance: Some Recent Advances. One day Workshop on Intelligent Assistive Systems for Health Care Applications, Jan 30th 2007, IIT Kanpur, K. S. Venkatesh.
 101. All-optical packet switching: architectural and design issues, ADCAN Lab, Dept. of Computer Science, Chonbuk National University, Jeonju, South Korea, 04 December 2006, Y. N. Singh.
 102. Issues in design and development of learning management system, Indian-ASEAN seminar of Elearning, 6-7 November 2006, Hyderabad, Y. N. Singh.
 103. Optical communications: transmitters and receivers, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y. N. Singh.

104. Optical networks: Introduction, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y. N. Singh.
105. All Optical Packet Switching: Architectures and issues, Invited talk in TIFAC-CORE@DCE, Delhi College of Engineering, Delhi, 23 April 2006, Y. N. Singh .
106. Evolution Does Not Lead To Cyborg, Workshop on Intelligent Assistive Systems for Healthcare Applications, January 30, 2007, Indian Institute of Technology, Kanpur, G. C. Ray.
107. Activities at Department of Electrical Engineering, I.I.T. Kanpur, Presented at International Crossroads, Institut National des Telecommunications, Evry, France, January 26, 2007, S. Qureshi.
108. RFID: Identification using radio frequency, IETE, Kanpur Chapter, 25th March 2007, A.R. Harish.
109. All-optical packet switching: architectural and design issues, [ADCAN Lab](#), Dept. of Computer Science, Chonbuk National University, Jeonju, South Korea, 04 December 2006, Y.N. Singh.
110. Issues in design and development of learning mangement system, Indian-ASEAN seminar of Elearning, 6-7 November 2006, Hyderabad, Y.N. Singh.
111. Optical communications: transmitters and receivers, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y.N. Singh.
112. Optical networks: Introduction, Short course on Optical Communications, NIT Raipur, 14 July 2006, Y.N. Singh.
113. All Optical Packet Switching: Architectures and issues, Invited talk in TIFAC-CORE@DCE, Delhi College of Engineering, Delhi, 23 April 2006, Y.N. Singh.
114. Design of Optically Actuated MEMS components, School of Electrical and Electronics Eng., Nanyang Technological University, Singapore, June 2006, Anjan K. Ghosh.
115. Emerging Market Structure in the Indian Power Sector - Understanding implications of the Electricity Act 2003, Electric Power System Operation and Control: Modern Trends and Future Challenges, IIT, Kanpur, 28 August - 1 Sept., 2006, Anoop Singh.
116. Humans, Corporations and the 21st Century: Resources or Liabilities? All India Management Seminar on Leveraging Human Potential in Emerging Global Opportunities, 23rd Sep., 2006, Institute of Productivity Management, Kanpur, Varman, Rahul.
117. Political Economy of Globalisation, Seminar on Global Opportunities and Challenges of 21st Century. 4th Nov. 2006, National Institute of Management & Computer Technology, Kanpur, Varman, Rahul.

118. A Decision-Making Framework for IT Outsourcing using the Analytic Hierarchy Process, Annual conference of International Academy of Business and Economics, Las Vegas, Nevada, 15-18 Oct 2006, Bansal, Veena.
119. Evaluating Effectiveness of Computing Facilities in Academic Institutes, International Conference on Software and Data Technologies, Portugal, Sep 11-14, 2006, Bansal, Veena.
120. Invited lecture on Software Project Management at Bharti Vidya Pheeth for their faculty, New Delhi, Dec 2006, Bansal, Veena.
121. Innovation for Strategy Creation and Implementation, invited seminar at Iran Oil Company, Iran, 10 June 2006, Arun P Sinha.
122. Location Decisions -A case of IIT location in Andhra Pradesh , Invited Lecture , Osmania University , Hyderabad Feb 12, 2007, Ashok K Mittal.
123. Text Mining for patents, Invited Lecture, National Workshop on Marketing Intelligence VIT Vellore Feb 19-20, 2007, Ashok K Mittal.
124. Intellectual Property Rights and Information Technology, Key note Lecture National conference on Innovation in Information Technology in Education , Kanpur Feb 26- 27,2007, Ashok K Mittal.
125. Research and Relevance : Potential Contribution of A Science and engineering School In Pakistan (Panelist), LUMS Lahore Pakistan January 16-17,2006, Ashok K Mittal.
126. Role of Optimization in Indian Industries (Panelist) RAOTA -2006 Delhi Oct 27-28, 2006, Ashok K Mittal.
127. Indo- US workshop on Computational Optimization and Application (Panelist) IIT Kanpur Feb 6-9,2007, Ashok K Mittal.
128. Two lectures each on Transport Phenomena in Porous Media and Measurements in Turbulent Flow, delivered at Department of Mechanical Engineering, Jadavpur University, Kolkata on 12th and 13th January 2007, K.Muralidhar.
129. Curious consequences of simple sequences - an invited lecture in CYLPS programme of CSIR at CMERI, Durgapur, and in the summer programme in Civil Engg. Dept. at IIT Kanpur, 2006, A.K. Mallik.
130. Delivered 4 lectures on chaotic dynamics and two popular lectures in Indian Academy of Science sponsored summer school held at IIIT, Hyderabad, 2006. A.K.Mallik.
131. From natural numbers to numbers and curves in nature, lecture delivered at Physics Dept. IIT Kanpur in the Horizon series. 2006, A.K.Mallik.
132. Eight lectures on nonlinear ordinary differential equations - delivered at SERC school on Nonlinear Dynamics held at IACS, Kolkata, during December, 2006, A.K.Mallik.

133. From natural numbers to numbers and curves in nature, lecture delivered at Mechanical Engineering Department, BESUS, February 3, 2007, A.K.Mallik.
134. Optimization problems in elementary geometry - lecture delivered at Techkriti festival at IIT Kanpur, February 23, 2007, A.K.Mallik.
135. Interplay between Theory and Experiment - lecture delivered at REACH Symposium (of IIT Kanpur) held at Timber Trail Heights, March 7, 2007, A.K.Mallik.
136. Academics as Career Option - Keynote address in the NCRSME, held at IIT Kanpur, March 24, 2007, A.K.Mallik.
137. Optimization problems in elementary geometry - lecture delivered in Department of Mathematics, IIT Kanpur, March 28, 2007, A.K. Mallik.
138. Fabrication and characterization of Thermoplastic nano composites, 2nd INDO-JAPAN Joint Seminar On MICRO/NANO MANUFACTURING SCIENCE, IIT Kanpur, India, 2006, J. Ramkumar.
139. Robot Motion Planning: An Overview, Jadavpur University, 25 September, 2006, Bhaskar Dasgupta
140. Characteristics of Two-Dimensional Wake Past a Normal Flat Plate, 33rd National and 3rd International Conference on Fluid Mechanics and Fluid Power, IIT Bombay, Mumbai, December 7-9, 2006, A.K.Saha.
141. PVDF based Smart sensor for sensing slips in Manipulators, IGKAR, August, 2006, Bishakh Bhattacharya.
142. Piezoelectric Smart Materials in Advanced Composites, HBTI, Kanpur, March 2007, Bishakh Bhattacharya.
143. Global Institute of Technology, Jaipur, 2007, A.K.Agarwal.
144. Malviya National Institute of Technology, Jaipur, 2006, A.K.Agarwal
145. Beauty of Materials, 10th March, 2007, Harcourt Butler Technological Institute - Kanpur, India, Kamal K. Kar.
146. Overview of Carbon Nanotube and CNT based Composites, 2nd National Workshop on Smart Materials for the Design of Intelligent Systems, 24th March, 2007, Indian Institute of Technology Kanpur, India, Kamal K. Kar.
147. Recent Trends in Metal Forming, TATA STEEL, July 2006. N.V.Reddy.
148. Chaired a session in ICOMAST-2006 held at Melaka (Malaysia) on Unconventional Machining, V.K.Jain.
149. Chief Guest at National Seminar on Advanced manufacturing Technologies held at MNNIT Allahabad and presented a Key Note Lecture on Evolution of Advanced Machining Processes held during March, 2007, V.K.Jain.
150. Issues in modelling of the mechanical behaviour of polymeric systems, HBTI, Kanpur, S.Basu.

151. Given an invited seminar titled Molecular Metal Silicates, Phosphonates and Hydroxides at Department of Chemistry, IIT Bombay on Dec. 8, 2006, Ganapathi Anantharaman.
152. Modulation of the Ru-Ru Single Bond by Axial Donors in Diruthenium Paddlewheel Complexes; 37th International Conference on Coordination Chemistry (37th ICC) at Capetown on August-2006, J.K. Bera.
153. Chemistry at Axial Sites of the $[\text{Ru}_2(\text{CO})_4]^{2+}$ Core, National Symposium on Current Trends in Chemistry at University of Kalyani on 31st January 2007, J.K. Bera.
154. Interaction of M-M Bond Orbitals with C-H Bond: Route to Agostic and Cyclometallated Complexes; Modern Trends in Inorganic Chemistry-XI (MTIC-XI) at IITD on December-2005, J.K. Bera.
155. Ligand-Centered Reduction Steps in $[\text{M}_2(\text{pyNP})_2]^{n+}$ Units (M = Mo, Re, Ru, Rh); 3rd Singapore-India Collaborative and Cooperative Chemistry Symposium (3rd SInCCC) at IITK on December-2004, J.K. Bera.
156. Ligand-Centered Reduction Steps in $[\text{M}_2(\text{pyNP})_2]^{n+}$ Units (M = Mo, Re, Ru); at IITG on December-2004, J.K. Bera.
157. Intra and intermolecular vibrations and hydrogen bonds in aqueous systems: A quantum simulation study, Indian Association for the Cultivation of Science, November 27, 2006, A. Chandra.
158. Hydrogen bonds and vibrational spectra of clusters, fluids and interfaces, IIT Kharagpur, January 04, 2007, A. Chandra.
159. Multi-site Coordination ligands Supported on Stannoxane cores 37th ICC, Cape Town August 13-18th 2006. Lecture on August 17th 2006, V Chandrashekar.
160. Inorganic and Organometallic Polymers and Dendrimers. Refresher course at BHU, October 5 2006, V Chandrashekar.
161. Multiple bonds between main-group elements. Refresher course at BHU, October 5 2006, V Chandrashekar.
162. A lecture on NMR. VSSD College, Kanpur. 10th October 2006, V Chandrashekar.
163. Playing With Tin Drums: A Story of Organostannoxanes. IIT Bombay 19th October 2006, V Chandrashekar.
164. Organometallic and Transition Metal Assemblies based on Stannoxane Phosphonates. International Conference in Emerging Trends in Chemical Sciences on the occasion of 150th anniversary of University of Mumbai, Mumbai. Jan 24th 2007, V Chandrashekar.
165. Nanodimensional organostannoxane assemblies. 1st Indo-UK Joint symposium on Chemical Sciences. CRSI-RSC meeting. New Delhi. Feb 1 2007, V Chandrashekar.

166. Supramolecular and Self-Assembly Materials. IITK REACH Symposium. March 7-10, 2007. Timber Trail Hights, Parwanoo, Himachal Pradesh, V Chandraskehar.
167. Towards Higher Resolution Microscopy through Sensitive Two-Photon Absorption Measurements, Debabrata Goswami, First Asian Spectroscopy Conference, Indian Institute of Science, Bangalore, Jan 29 - Feb 2 (2007), D Goswami.
168. Shedding a little Light on the Vision of Quantum Computing, Debabrata Goswami, Indo-US Shared Vision Workshop on Soft, Quantum and Nano Computing, Dayalbag Educational Institute, Agra, February 22 (2007) , D Goswami.
169. On the Evolution of Coherence in Adiabatic Single-Pulse versus Phase-Locked Multi-Pulse Control, Debabrata Goswami, Spectroscopy and Dynamics of Molecules and Clusters, Corbett National Park, Uttaranchal, 23-25 February (2007) , D Goswami.
170. Implementing Adiabatic Quantum Computing, Debabrata Goswami, Symposium on Quantum Information, School of Physical Sciences, JNU, Delhi, March 16-17 (2007) , D Goswami.
171. Molecules to Materials: Design, Synthesis, spectral characterization and possible applications of Imidazolin-5-ones, IIT Madras, June 2006, R. Gurunath.
172. Degradation of N,N dimethylformamide by a paracoccus species.- Kanpur University, 19th February 2007, R. Gurunath.
173. Strategies and Problems in the synthesis of selenium containing peptides, The First Indian Peptide Society Symposium, Hyderabad 23 Feb 2007, R. Gurunath.
174. Department of Chemistry, Devi Ahilya University, Indore March 15, 2007, B D Gupta.
175. Invited lecture at Institut fuer Chemie und Biochemie, Freie Universitaet Berlin, Organische Chemie, Takustr. 3, D-14195 Berlin, Germany: (June 9, 2006), F.A. Khan.
176. Invited lecture at Institut für Chemie, Abteilung Organische Chemie, Universität Rostock, Albert-Einstein-Str. 3a, 18059 Rostock, Germany: (June 16, 2006), F.A. Khan.
177. Invited lecture at Institute of Organic Chemistry, University of Tuebingen, Auf der Morgenstelle 18, 72076 Tuebingen, Germany: (June 20, 2006), F.A. Khan.
178. Invited lecture at Institute of Organic Chemistry, University of Hanover, Schneiderberg 1B, D-30167 Hanover, Germany: (June 27, 2006), F.A. Khan.
179. Invited lecture at Dept of Organic Chemistry, Dortmund University, Otto-Hahn-Strasse 6, D-44227 Dortmund, Germany: (June 28, 2006), F.A. Khan.
180. Invited talk on Supramolecular Chemistry, NCCT-2006 (National Convention of Chemistry Teachers), Kottayam, October 28-30, 2006, J. N. Moorthy.

181. Coordination Chemistry of Pyridine Amide Ligands: Structures and Properties, Department of Chemistry, Stanford University, USA (April 18, 2006), R. N. Mukherjee.
182. Synthesis, Structure and Reactivity of Iron and Vanadium Complexes of Meso-hydroxy Octaethylporphyrin, Presented on 7th March, 2007 in the department of Chemistry and Chemical Technology, Vidyasagar University, West Bengal, S. P. Rath.
183. Noncovalent Interactions, Tata Institute of Fundamental Research, Mumbai October 11, 2006, N. Sathyamurthy.
184. Invited talk on September 19, 2006 at Lilly, Indianapolis, U.S.A., V. K. Singh.
185. Invited Lecture at CHUL Research Center, September 22, 2006, Quebec city, Canada, V. K. Singh.
186. Invited lecture at a Symposium Current Trend in Chemistry held during March 24-25, 2007 at BHU, Varanasi, V. K. Singh.
187. Quantum routes to energy flow: lessons from Classical mechanics?, Goa, India, April 2006, K. Srihari.
188. Does Vibrational Energy Flow fill the Molecular State Space?, Theoretical Chemistry Symposium, Trichy, India, December 2006, K. Srihari.
189. Molecular Vibrations, IITK-REACH Symposium, Parwanoo, India, March 2007, K. Srihari.
190. Postmodern Rate Theories? CHEMFEST, IITK, March 2007, K. Srihari.
191. Department of Chemistry, IIT Delhi, 5th April, 2006, Y.D. Vankar.
192. Department of Chemistry, Universität Konstanz, Konstanz, Germany, May 8, 2006 under INSA-DFG exchange programme. Delivered a lecture titled Synthetic endeavors towards glycosidase inhibitors and glycosamino acids, Y.D. Vankar.
193. Department of Organic Chemistry, Universität Tübingen, Germany, May 10, 2006, Y.D. Vankar.
194. Department of Organic Chemistry, Universität Mainz, Germany, May 12, 2006, Y.D. Vankar.
195. Department of Organic Chemistry, Universität Stuttgart, May 15, 2006, Y.D. Vankar.
196. Department of Organic Chemistry, Universität Potsdam, May 17, 2006, Y.D. Vankar.
197. Department of Organic Chemistry, Freie Universität, Berlin, May 19, 2006, Y.D. Vankar.
198. Department of Chemistry, Universität Dresden, May 22, 2006, Y.D. Vankar.
199. Indian Institute of Chemical Biology, Kolkata, June 14, 2006, Y.D. Vankar.
200. Apotex Pharma Chem Inc., Brantford, Ontario, Canada, July 31, 2006, Y.D. Vankar.

201. School of Chemistry, University of Hyderabad, Hyderabad (October 2006) , Y.D. Vankar.
202. Department of Chemistry, IIT Guwahati, Guwahati (January 17, 2007) , Y.D. Vankar.
203. Delivered two lectures at Government Model College, Jabalpur on September 16, 2006: 1. Modern reagents in organic synthesis 2. Carbohydrates: Much more than mere source of energy, sponsored by the Indian Academy of Sciences, Y.D. Vankar.
204. Self-assembling triskelion peptide elements. Current Trends in Chemistry, Banaras Hindu University, March 24-25, 2007, S. Verma.
205. Gyrotactic Bioconvection simulations, Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Ghorai, S.
206. Isometric multipliers of vector-valued function spaces, University of Lucknow, Aug.19,2006, Tewari, U.B.
207. Completely bounded multipliers on Fourier Algebra, Conference on Harmonic Analysis ,Dec. 22-24,2006 at IIT Kanpur, Tewari, U.B.
208. Improved estimation of parameters in linear regression models, at Deutsches Zentrum fur Luft-und Raumfahrt e.V. (DLR), Institute of Spce Simulation, Koln, Germany in August 2006, Shalabh.
209. Consistent estimation of regression coefficients in replicated ultra structural mode, at Department of Mathematics and Computer Science, University of Kassel, Kassel, Germany in November, 2006, Shalabh.
210. Current trends in differential equations, Lectures series delivered in the orientation programme of the inverts institute of engineering technology, Bareilly, Sept. 1-2, 2006, Bahuguna, D.
211. Perfusion Quantitation Using fast 3D-SPGR DCE-MRI in CME on Clinical Application of newer MRI techniques in neurosciences February 2007, S. G. P. G. I.of Medical Sciences, Lucknow Rathore, R. K. S.
212. Image Processing for DTI and Tractography' in CEP on Imaging Techniques In Life Sciences, February 2007, Institute of Nuclear Medicine & Allied Sciences, Delhi Rathore, R. K. S.
213. Adaptive smoothing in nonparametric classification, University of Calcutta, 31st December, 2006, Ghosh, A.K.
214. Adaptive nearest neighbor classifier. Indian Statistical Institute, 4th January, 2007, Ghosh, A.K.
215. Overview of Finite Difference Methods for Partial Differential Equations (02 lectures) at University of Pune, October 2006, Kadalbajoo, M.K.
216. Uniformly Convergent Difference Methods for solving Burgers' Equation, IIT Bombay, October 2006, Kadalbajoo, M.K.

217. An overview of Finite Difference Methods for PDE's (02 lectures) IIT Madras, December 2006, Kadalbajoo, M.K.
218. Finite Volume Methods for PDE's IIT Madras, December 2006, Kadalbajoo, M.K.
219. Finite Volume Methods for Hyperbolic Conservation Laws, M.S. University, Baroda, January 2007, Kadalbajoo, M.K.
220. On sequence spaces in the department of mathematics, University of Addis Ababa, Ethiopia on Dec. 7, 2006, Gupta, M.
221. Banach spaces of entire sequences and their Kothe duals, Gupta, M., Pradhan, S.
222. Consistent Estimation of Regression Coefficients I Measurement Error Model under Exact Linear Restrictions in 4th International Workshop on TLS and Errors-in-Variables modeling, Aug. 21-23, 2006. Garg, G.
223. Voxel wise exact T Estimation for Accurate Quantitation of Perfusion Indices using Fast 30-SPGR in Intracranial Mass Lesion, ISRM 14th Scientific Meeting & Exhibition Scattle, Washington, USA from 6-12, Singh, A.
224. Banach spaces and their applications in analysis at Miami University, Ohio from May 22-May 28, 2006, Acharya, L.R.
225. A DTI Analysis tool and another Newton-Raphson method for in vivo 'H MRS Data, ESMRMB 23rd Scientific meeting, Warsaw, Poland, 21-23 September 2006, Purwar, A.
226. De-scalping of the brain in echo planar DT-MRI, ISMRM 14th Scientific meeting & Exhibition, Scattle, Washington, USA, Sarma, M.K.
227. Higher Order Finite Difference Methods for Second Order Singularly Perturbed Delay Differential Equations SIAM conference on computational science and engineering during 17th-23th Feb. 2007, Ramesh, V.P.
228. On Double Diffusive natural convection in wavy porous enclosure under the influence of soret and dufour effect, ICAPM-2006, May 28-Jun 4, Marrakech, Morrocco, B.V. Rathish Kumar et al
229. Unusually Stabilized WEBS-FEA of generalized Stokes Equations based on static condensation of quadratic Bubbles, MAFELAP 2006, June 12-16, Brunel University, London, B.V. Rathish Kumar, V.V.V.S.Kumar, P.C.Das
230. Parallel mesh division algorithm for general linear two point boundary value problems, Int. Symposium on parallel computing in electrical engineering, PARALEC'06, pp.412-420, 2006, Rajesh Bawa, B.V. Rathish Kumar, Tanu Gupta,
231. Numerical simulation of thermal hydraulics in ADSS Model, EUA4#19-EUAXevent, 2006, IAC-CNR, ROMA, ITALY, B.V. Rathish Kumar, Arul Praksh, G. Biswas,
232. Strong Law for the Largest Nearest-Neighbor Link on Exponentially Distributed Points, 2nd IMT-GT Regional Conference on Mathematics, Statistics and Applications, Universiti Sains Malaysia, Penang, Malaysia (June 2006) Bhupendra Gupta & Srikant K. Iyer.

233. A parameter free numerical method for solving singularly perturbed turning point problem having two boundary layers on a non-uniform mesh in the Fourteenth International conference of the Forum for Interdisciplinary Mathematics-CMASM-2007-FIM XIV at IIT Madras during 6-8 January 2007 Vikas Gupta & M.K. Kadalbajoo.
234. Instabilities in superconductors and mapping megagauss magnetic fields associated with laser plasma interactions. S. N. Bose National Center for Basic Sciences, Kilkata, 30th March, 2007, Satyajit Banerjee
235. Intense microwave plasmas for focused ion beams, Variable Energy Cyclotron Center, Kolkata, April 06, 2006, Sudeep Bhattacharjee
236. Intense microwave plasmas for ion source application", Institute for Plasma Research, Gandhinagar, November 08, 2006, Sudeep Bhattacharjee
237. Traffic of interacting molecular motors: effects of single motor mechano-chemistry, Max-Planck Institute for Cell Biology and Genetics, Dresden, Germany, May, 2006, D Chowdhury.
238. Interacting self-propelled particles: from molecules to vehicles, Harish-Chandra Research Institute, Allahabad, December 11, 2006, D Chowdhury.
239. Molecular Machines, Physics Department, Banaras Hindu University, Varanasi, February 08, 2007, D Chowdhury.
240. "Traffic of molecular motors on filamentary tracks" Physics Department, Banaras Hindu University, Varanasi, February 09, 2007, D Chowdhury.
241. "Molecular motor traffic on intra-cellular filamentary tracks" Forschungszentrum, Julich, Germany, March 08, 2007, D Chowdhury.
242. Effect of long-range connections on an infinite randomness fixed point, Statphys-Kolkata VI, Raichak, 5th January, 2007, Amit Dutta
243. Long-range connections, contact processes and disorder correlation, Department of Physics, Indian Institute of Technology Kanpur, 23rd February, 2007, Amit Dutta
244. Long-range connections and contact processes, S. N. Bose National Center for Basic Sciences, Kolkata, 6th March, 2007, Amit Dutta
245. Heavy fermion behaviour in YbIr₂Si₂ and Quadrupolar order in YbRu₂Ge₂, University of Koln, Germany, 11 October 2006, Z. Hossain.
246. Physics Colloquium: Crystal Field Effect, Magnetism and Superconductivity of Pr-Compounds, Max-Planck Institute for Chemical Physics of Solids, Dresden, Germany, 16 November 2006, Z. Hossain.
247. Invited talk " Current Status of Ultra High Energy Cosmic Ray's at DAE particle physics symposium at IIT Kharagpur, December 11-15, 2006, Pankaj Jain.
248. Composite structure and causality, Institute of Physics, Bhubaneswar, March 08, 2007, S.D. Joglekar.

249. Spin Fluctuations in the Triangular-Lattice Antiferromagnet Institute of Physics, Humboldt University, Berlin, 26 April 2006, Avinash Singh.
250. Spin Dynamics in the Diluted Ferromagnetic Kondo Lattice Model Institute of Physics, Humboldt University, Berlin, 17 May 2006, Avinash Singh.
251. Clustering Induced Suppression of Ferromagnetism in Diluted Magnets Institute of Physics, University of Regensburg, 12 Sep. 2006, Avinash Singh.
252. Spin Dynamics in Diluted Magnetic Semiconductors Indian Institute of Technology Roorkee, 31 Oct. 2006, Avinash Singh.
253. Correlation Effects in a Band Ferromagnet—Goldstone-mode Preserving Investigation with Self-Energy and Vertex Corrections Indian Institute of Technology Roorkee, 2 Nov. 2006, Avinash Singh.
254. Recent Developments in Rayleigh Benard Convection, National Conference on Nonlinear Systems and Dynamics-2006, Chennai, 2006, M. K. Verma.
255. Dynamo Using Turbulent Energy Fluxes, in International Solar Workshop on Transient Phenomena on the Sun and Interplanetary Medium, Nainital, 2005, M. K. Verma.
256. Negative refractive index and optical anti-matter., Institut Fresnel, Universite Aix Marseille. I, France, 05 May 2006, S. A. Ramakrishna.
257. The time of sojourn for a wave traversing a material medium., Institut Fresnel, Universite Aix Marseille . I, France, 19 May 2006, S. A. Ramakrishna.
258. Negative refractive index and optical anti-matter., Department of Applied Mathematics, University of Liverpool, Liverpool, UK, 24 May 2006 , S. A. Ramakrishna.
259. Delay times for pulses in plasmas and negative index media., The Blackett Laboratory, Imperial College London, 26 May 2006, S A Ramakrishna.
260. Colloquium on Negative refractive index and optical anti-matter., Nanophotonics and Metrology Laboratory, Ecole Polytechnique de Lausanne, Switzerland, 12 June 2006, S A Ramakrishna.
261. Delay times for pulses in plasmas and negative index media., Department of Physics, University of Geneva, Switzerland, 22 June 2006, S A Ramakrishna.
262. Seminar on Manipulating light with negative refraction. Institute of Microtechnology, University of Neuchatel, Switzerland, 12 July 2006, S A Ramakrishna.
263. Colloquium on Physics of Negative refractive index materials., Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, 21 Dec. 2006, S A Ramakrishna.
264. Negative refractive index on metamaterials at Optical frequencies., Raman Research Institute, Bangalore, 22 Dec. 2006, S A Ramakrishna.
265. Colloquium on Metamaterials and negative refractive index., Birla Institute of Technology and Science, Pilani, 06 March 2007, S A Ramakrishna.

266. Embedded Nanoscale Heterostructures for Photoelectronic Applications, Indo-Japanese NanoSc Mfg, 19 December 2006 IIT Kanpur India, Y. N. Mohapatra.

OTHER ACTIVITIES

(A) TECHNOLOGY DEVELOPED

1. On-going developmental work on synthesis and trial of silver particle embedded granular activated carbon (GAC) filter as antibacterial agent in drinking water filtration and purification systems, in collaboration with Filtrex Technologies Pvt. Ltd., Bangalore, R. Bandyopadhyaya.
2. On-going developmental work on synthesis and tuning of superparamagnetic iron-oxide nanoparticle suspension, to be used as enhanced contrast agent for MRI diagnosis of disease, in collaboration with SGPGI, Lucknow, R. Bandyopadhyaya.
3. Developed - A method for generating small scale structures via pattern miniaturization using hydrogel. (Applied for Patent), A. Ghatak.
4. Developed - A method for generating small scale structures via pattern miniaturization using hydrogel. (Applied for Patent), A. Ghatak and A. Sharma.
5. A Pilot Plant for the technology developed in ARRPET project is running at Vapi, Gujarat since June 2006. Funding for construction, operation and maintenance of the pilot plant has been provided by Vapi Waste & Effluent Management Co. Ltd., S. Guha.
6. Wake-on-WLAN technology for remote switch on/off (see WWW'06 publication for details), Bhaskaran Raman.
7. The BriMon system for Railway Bridge Monitoring, Bhaskaran Raman.
8. SIMRAN Technology, B.M. Shukla.
9. Train Partition Notification Technology, B.M. Shukla.
10. Track Detection, B.M. Shukla.
11. Smart Card projects: Department of CSE is involved in the specification and development of the operating systems for smart cards. A major success story is the development of SCOSTA operating system for the smart cards. This operating system has been adopted for the use in Driving Licenses, Vehicle Registration Certificates and Multi-purpose National Id card, all based on the smart cards. Lately, a standard has been developed for the smart cards to be used in the electronic passport. In addition to these, various applications have been developed around the smart cards. These include the personalization system for the driving licenses and vehicle registration system (jointly with NIC),

personalization system for the national ID card (jointly with the NIC), multi-purpose Identity card IIT Kanpur including applications such as attendance, library, club memberships etc. Department received another big project from the Ministry of Communication and Information Technology on the standardization and development of readers for the smart cards. The department will be developing hand held readers which can be deployed in the field for working with the smart cards such as those listed above, Rajat Moona.

12. The department is involved in the development of postal bag tracking along with CDAC Noida through a project funded by the Ministry of Communication and Information technology. In this project, the RFID based technologies are to be developed for automatic tracking of the speed post articles across various transit mail offices. In the pilot project, the mail that flows between Delhi and Bombay will be tracked, Rajat Moona.
13. Low power MOSFET based inverter; Status: packaging in progress, P. Sensarma.
14. IGBT gate drivers with inherent short-circuit protection scheme and isolation (2 kV) for Voltage Source Inverters; Status: beta testing in progress, P. Sensarma.
15. Removal of Scratches, Blotches and color fading in old Motion picture films, Ready for Transfer, S. Gupta.
16. True Zoom, Multiview Image Format. Some more Development Needed, K. S. Venkatesh.
17. Anthropological Security: Ready for Transfer, K. S. Venkatesh.
18. Laser Pointer Based HCI: Ready for Transfer, K. S. Venkatesh.
19. Laser Assisted Visual Metrology Applications: Under Development, K. S. Venkatesh.
20. Wake-on-WLAN (Remotely wakes up wireless LAN devices and hence helps save considerable power), Further development needed, K. Chebrolu.
21. BriMon (Structural health monitoring tool for bridges), Further development needed, K. Chebrolu.
22. Pain Monitor. Tested on many patients by Dr. Gautam Das, Specialist on pain management, G. C. Ray.
23. A working prototype developed for the measurement of Laser Range finder based Angle of Attack and Tracking Position of Rail axles for the Indian Railways as part of the project on "Trackside Bogie Monitoring System". Further development required before technology transfer, J. John.
24. UHF RFID tag antenna, prototypes are undergoing testing at the partnering organization, A. R. Harish.
25. Visibility Measurement of Fog, under the TMRS-Fog Vision Instrumentation.
26. Powder Metallurgical Processing of SILVAR composites for thermal management application in communication satellites developed in collaboration with Mr. A. Pathak and his team at Space Application Center (SAC), Ahmedabad. This project

- was undertaken under the aegis of ISRO-IITK Space Technology Cell, A. Upadhyaya.
27. Low temperature Synthesis of Nd-doped Bismuth Titanate Nanoparticles, Ashish Garg.
 28. Mathematical modeling and computational analysis of large-dof robot manipulators: B. Dasgupta
 29. Development of Foil Air Bearing for Air Cycle Machine. Technology transferred to HAL, Lucknow. The product is at the phase of manufacturing and testing, S.Sarkar
 30. Developed an autonomous robot with a sensor probe for detecting surface features inside a closed conduit, the technology will be delivered to the Naval Armament Board, Bishakh Bhattacharya.
 31. Developed a novel turn-indicator using Shape Memory Alloy with auto-shut off mechanism for General Motors, Bishakh Bhattacharya.
 32. Straight Vegetable Oil (SVO) for direct use in compression ignition engines, A.K. Agarwal.
 33. Fabricated solar photovoltaic cells with imidazolin-5-ones. These are biodegradable and currently being optimized, R Gurunath.

(B) SOFTWARE DEVELOPED

1. Title of the software, Ready for Transfer/further development needed, S. Guha.
2. Limulator, Available for download at <http://home.iitk.ac.in/~blohani/download.htm>, further being developed to make it more comprehensive, B. Lohani.
3. LAS-Converter, Available for download at <http://home.iitk.ac.in/~blohani/download.htm>, further will be developed on the basis of feedback on present version, B. Lohani.
4. Horoscope Program, B. M. Shukla.
5. On Line Project Management, B. M. Shukla.
6. STD & PIN Code Dictionary, B. M. Shukla.
7. Address Book Software for Motorola C650 Model, B. M. Shukla.
8. HP iPAQ 6315 based way point logger cum way point arrival notification system.
9. Multi Lingual Web based Transliteration Software, B. M. Shukla.
10. Multi Lingual Web based Transliteration Software, B. M. Shukla.
11. On Line Web Based Library Automation System, B. M. Shukla.
12. Pickpacket v2: Network Monitoring Tool, More improvement one over the last year's version (Ready to be transferred.), Dheeraj Sanghi.

13. Fingerprint Separation s/w and GUI Interface, Ready for Transfer, P. K. Kalra.
14. Audio separation s/w and GUI Interface, Ready for Transfer, P. K. Kalra.
15. Image compression s/w and GUI Interface, Ready for Transfer, P. K. Kalra.
16. Day Ahead Auction Software for Power Exchange, Ready for Transfer, P. K. Kalra.
17. Brihaspati, Y. N. Singh.
18. Platform for measuring 802.11 Link performance, Ready for transfer, Ilamparidhi, Rajesh Kumar, and A.R. Harish Radio wave propagation prediction using ray tracing for indoor wireless application, K. Chebrolu.
19. RF breakdown power prediction in transmission lines, Kalpesh Mehta and A.R. Harish.
20. Generalized scattering matrix method for analysis microwave circuits, Kalpesh Mehta and A.R. Harish.
21. Indoor location sensing using RFID, Arunabh Chattopadhyay and A.R. Harish.
22. Advanced optical microscopy (3D imaging) (developed in house), Sandeep Sangal.
23. "Yantrika", an integrated software package for analysis, design, planning and control of large-dof robot manipulators, almost ready for transfer (trial version already delivered, to IGCAR, Kalpakkam, B.Dasgupta.
24. Developed a software for Shape Control of Space Antenna Structure to be delivered to ISRO, Satellite Centre Ahmedabad. Bishakh Bhattacharya.
25. Developed a LES code for complex geometry, S.Sarkar.

(B) INDUSTRIES VISITED

1. DRDL, Hyderabad, Expert Member on Missile Parameter Estimation, S.K. Gupta.
2. HEMRL, Pune, Expert Aerodynamics for FAE Bomb Design, S.K. Gupta.
3. Hindustan College of Engg., Chennai, Member Panel DST, S.K. Gupta.
4. Visited Indo-Gulf Fertilizers (Jagdishpur, UP) to discuss and finalize sponsored consultancy project of cost Rs. 21 Lakhs on "to develop membrane process based scheme in order to recycle urea plant process condensate after recovering Gases (Ammonia and CO₂) and Urea". Starting Date: November 2006, P.K. Bhattacharya.
5. Visited twice to Transpek-Silox, Vadodara (a multi-national company manufacturing inorganic chemicals) to discuss and finalize sponsored consultancy project of cost Rs. 10 Lakhs on "to develop a scheme for recycling of TSIL biologically treated effluent (300 m³/day) in order to recover water as well as for any discharge to municipal drainage, adhering pollution norms", P.K. Bhattacharya.
6. Chinese Petroleum Corporation, July, 2006 to deliver a seminar and to discuss possible collaboration, J. P. Gupta.

7. Visited College of Engineering, Thiruvananthapuram (Kerala) during March 16-18, 2007 as NBA expert for accreditation of their M.Tech Structural Engineering Programme, Chakrabarti, S.K.
8. Visit to IRC as a member of the committee on Transport Planning, Traffic Engineering and Road Safety, Chakraborty, P.
9. Visit to SVNIT Surat to help them develop an M.Tech. program in Transportation, Chakraborty, P.
10. DTRL-DRDO, Invited for discussion on DTRL projects, 15 February 2007, Lohani, B.
11. Shell Technology India Private Limited, Bangalore; 30th March, 2007. To discuss mutual R7D activities in the area of earth sciences, Sinha, R.
12. TCS Bangalore, CDRI Lucknow, e-Logistics, Chennai, IIIT Jabalpur BIET Jhansi, NBRI Lucknow, RDSO Lucknow, B.M. Shukla.
13. IBM, Bangalore; Intel, Bangalore; IIT, Kharagpur; IISc, Bangalore; Cornell University, Ithaca, NY, USA, Mainak Chaudhuri.
14. IITG, UCSD, CalTech, UCLA, Berkeley, Stanford, CWI, University of ULM, Bellairs Institute, Manindra Agrawal.
15. TVS Motor Company Limited, Chennai, India, Discussion on project proposal titled "Engine Testing", P. K. Kalra.
16. Bajaj (Automobiles unit), Pune, India, Discussion on project proposal titled "Engine Testing", P. K. Kalra.
17. Mahindra & Mahindra, (Automobiles unit), Nasik, India., Discussion on project proposal titled "Engine Testing", P. K. Kalra.
18. NCDEX, Mumbai, India, Conceptualizations of Power exchange, P. K. Kalra.
19. Visited Institute of Engineering Tribhuvan University Nepal, 8-9 Jan. 2006, S. C.,Srivastava.
20. Visited Hong Kong Polytechnic Univ. Hong Kong during 1-2 Nov. 2006, S. C.,Srivastava.
21. Visited Asian Institute of Technology Thailand during 3-4 Nov. 2006, S. C.,Srivastava.
22. Visited Crompton Greaves of India Ltd. ,Kunjur Works, Mumbai for research collaboration in December 2006, S. C. Srivastava.
23. BHEL, Bhopal, Sensarma P.
24. Visited Indira Gandhi Center for Atomic Research. Discussed problems of mutual interest, R. Potluri, September 2006.
25. Industrial visit to study distributed control systems in the following industry: Alumina Refinery plant of HINDALCO Renukut, 1 day, R. Potluri., Captive Power plant of HINDALCO, Renusagar, 1 day, R. Potluri., NTPC Shaktinagar, 1 day, R. Potluri, October 03 - 05, 2006.
26. Crompton Greaves, Mumbai, to discuss research possibility, N. Gupta.

27. BHEL, to discuss possibility of research collaboration, N. Gupta.
28. CPRI, Bangalore, to establish collaboration, N. Gupta.
29. ZEE Broadcasting Corporation, Collaboration activity, S. Gupta.
30. City University of New York for Research Collaboration (Dec.8 – Dec.25th 2006), S. Umesh.
31. Visit to RDSO, Lucknow in connection with the field trials and interactions with railway engineers on the Trackside Bogie Monitoring System project under the Technology Mission on Railway Safety. One visit per month from April 2006 to March 2007, J. John.
32. Visited NTU Singapore during December 03 – 16, 2006 for exploring possible technical collaboration. Delivered two lectures on Fractal Antennas and Chaos at Microwave Frequencies, A.R. Harish.
33. Visited the Div. of Communication Engineering, School of EEE, Nanyang Technological University, Singapore as TCT Fellow during May 06-June 06, Anjan K. Ghosh.
34. Visiting the Telecomm Systems Program, School of electrical and computer engineering, University of Oklahoma, Tulsa as a visiting Professor from July 06-Aug08, Anjan K. Ghosh.
35. Mazandran University of Science & Technology, Iran, J. Chatterjee.
36. Tampere University of Technology, Finland, J. Chatterjee.
37. London School, of Economics, U.K. , J. Chatterjee.
38. Curtin University of Technology, Sydney Campus, Australia, J. Chatterjee.
39. International Management Institute, New Delhi, India, J. Chatterjee.
40. Management Development Institute, Gurgaon, India, J. Chatterjee.
41. National Knowledge Commission, New Delhi, India, J. Chatterjee.
42. Indian Council of Agriculture Research, New Delhi, India, J. Chatterjee.
43. Centre for Management of Innovation and Technology, New Delhi, India, J. Chatterjee.
44. University of a Kassel, Germany, J. Chatterjee.
45. Indian Institute of Management, Kolkata, India, J. Chatterjee.
46. Bankers' Institute of Rural Development, Lucknow, India, J. Chatterjee.
47. ICRISAT, Hyderabad, India, J. Chatterjee.
48. Innovation Management Institute, Helsinki, Finland, J. Chatterjee.
49. I I M Khozhikode, Kerala, India, B.V.Phani.
50. Invited as Visiting Faculty by Department of Psychology, Osmania University, Hyderabad to give lectures on Multivariate Statistical Methods, February 26-March 03, 2007, Narendra K. Sharma.
51. Tubular Microwave Sintering Furnace with Inert and Reducing Gas Flushing for Sintering Metallic Samples (filed, 2006), Upadhyaya and G. Swaminathan.

52. Rare-Earth Oxide Dispersed Sintered Stainless Steels (REO-Steels),(filed, 2006), Upadhyaya, R. Balasubramaniam, and J. Shankar.
53. Process for drilling contoured deep hole in super alloys using STED to enhance cooling in turbine blades, (Applied for, January 2007), V. K. Jain, D. S. Bilgi, A. V. Kulkarni, A. Chavan, R. Shekhar.
54. Low temperature Synthesis of Nd-doped Bismuth Titanate Nanoparticles, Indian Patent Application No. 804/DEL/2007, Prem Prakash, Ashish Garg, Mukesh Kumar Roy and Harish Chandra Verma.
55. Synthesis of Nanocrystalline Iron Carbides by Reaction Milling in a Dual Drive Planetary Mill, (2006), D. Chaira, S. Sangal, B.K. Mishra.
56. Visited Dept. of Mechanical Science and Engineering, Nagoya University, Japan For teaching and research from 1st May 2006 to 31st March 2007, A. Dutta
57. ISRO Satellite Centre, 1-3 Jan 2007 for discussion on projects, B. Dasgupta.
58. Visited University of Verona, Italy on an Indo-Italian Joint Project on development of shear sensors for robotic manipulators in September 2006, period 2 weeks. Bishakh Bhattacharya.
59. Visited University of Illinois at Urbana Champaign and University of California at Irvine on an Indo-US project on development of micro-gripper manipulator using IPMC, period 10 Days, Bishakh Bhattacharya.
60. Visited Mahindra and Mahindra Ltd, Nashik, June 2006, A.K. Agarwal.
61. Visited TATA STEEL, July 5-6, 2006, December 4-5, 2006, N.V. Reddy.
62. Visited Northwestern University under Indo-US center on Advanced Manufacturing (May-June, 2006), N.V. Reddy.
63. Visited University of Electrocommunications, Tokyo, University of Shizouka, Hamamatsu, Suzuki Motors, Iwata, Hamamatsu Photonics, Hamamatsu, October 2006, N.V. Reddy.
64. Visit to Indian Institute of Science for Research data collection in 17-23, August 2006, R. Gurunath.

(D) PATENTS

1. Profile measurement machine (filed for patent), C. Venkatesan.
2. Micro- and sub-micro patterning of soft solids and articles formed thereof, Indian patent (2787/DEL/2005) and PCT/IN/0600108 filed on March 28th, 2006 (A. Sharma, M. Gonuguntala, S Subramanian and R. Mukherjee).
3. Pressureless Room Temperature Micro- and Sub-micro Patterning of polymer Films Coated on Planar or Curved Surfaces Using Patterned Flexible Foils as

- Stamp and Articles Formed Thereby, Indian Patent 1519/DEL/2006 filed on June 28th, 2006 (A. Sharma, Rabibrata Mukherjee, Danish Faruqui and Ganesh Patil).
4. Generation of Submicron to Macroscopic Patterns and Objects by Successive Miniaturization Using Shrinkable Materials and Articles Formed Thereby, Indian Patent 522/DEL/2007 filed on March 09, 2007 (A. Ghatak, A. Sharma, A. L. Das, R. Mukherjee, V. Katiyer, M. Kulkarni).
 5. Liquid-solid radially cross-flow multi-stage fluidized bed contactor, IPA No.830/DEL/2007, N. Verma.
 6. Compiling memory dereferencing instructions from software to hardware in an electronic design, US Patent Grant No. 7,203,912, Rajat Moona.
 7. Repartitioning performance estimation in a hardware-software system, US Patent Grant No. 6,856,951, Rajat Moona.
 8. Area optimization of hardware for algorithms by optimizing sizes of variables of the algorithm, US Patent publication no. 20060020574, Rajat Moona.
 9. Indian Patent titled "Improved Single Phase Phase-Locked-Loop" filed on Feb 20, 2007, Application No. 349/DEL/2007, P. Sensarma.
 10. A low complexity symbol timing estimator for MIMO Modem using two samples per symbol (Pending award of patent), A. K. Chaturvedi and Ketan Rajawat.
 11. Power Supply for Personal Computers, in place of the Conventional SMPS and UPS. (Pending award of patent), K. S. Venkatesh.
 12. 933/DEL/2006"Organic photovoltaic cells with thin films of carbon nano-tubes p-n junctions"31-03-2006.Co-inventor:Arun Tej Mallajosyula, S.K.Iyer.
 13. Dielectric Resonator, Publication No. :US2006/0097826 A1, Publication Date: May 11, 2006, Kumar Vaibhav Srivastava, Vishwa V. Mishra and Animesh Biswas, Appeared in : <http://www.uspto.gov/patft/>.
 14. Wide Band Loop Antenna, Patent Application No. 1594/DEL/2006 Dated: 07-07-2006, A.R. Harish and Ravi Kumar Joshi.
 15. Curved deep hole drilling using Shaped Tube Electro Drilling (Applied) V.K.Jain
 16. Pulsating flexible magnetic abrasive brush for super finishing, V.K.Jain.
 17. Magnetorheological abrasive flow finishing process and device therefore V.K.Jain.
 18. New media for AFM machining- Indian Patent (filed), J. Ramkumar.
 19. Joining of Dissimilar Pipes thro adhesive joining-Indian Patent (filed) J. Ramkumar.
 20. Novel Technique for Ceramic Ball finishing thro MFP- Indian Patent (filed) J.Ramkumar.
 21. Functionally graded wide-band polymeric composites for microwave absorbers and method of manufacturing same, RFE.NO.:- 737/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar, Ahankari Sandeep Sureshrao and Animesh Biswas.

22. Functionally graded polymer nanocomposites/composites having crosslinking density variation and their manufacture, RFE.NO.:- 736/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar and Ahankari Sandeep Suresh Rao.
23. Carbon nanotube(s) coated cutting tool(s) and a method for preparation thereof, RFE.NO.:- 735/DEL/2007, Dated 30th March 2007, India (2007), Kamal K. Kar and Ariful Rahman.
24. A novel functionally graded polymer(s)/polymeric nanocomposite(s) [fgp(s)]/fgpnc(s)] having glass transition temperature variation and a process for preparation thereof, RFE.NO.:- 681/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar and Ahankari Sandeep Suresh Rao.
25. Functionally graded magnetic materials and a method for preparation of the same, RFE.NO.:- 680/DEL/2007, Dated 28th March 2007, India (2007), Kamal K. Kar and Ahankari Sandeep Suresh Rao.
26. A novel viscoelastic media used for nano-finishing of materials through abrasive flow machining process and a method of manufacture thereof, RFE.NO.:- 591/DEL/2007 Dated 19TH March 2007, India (2007), Kamal K. Kar, J. Ramkumar and Piyushkumar B. Tailor.
27. Imidazolin-5-ones for photovoltaic applications –patent filed in February 2007, R. Gurunath.

(E) AWARDS AND HONOURS

1. C-Chairman, Organizing Committee, First Indo-US Frontiers of Engineering Symposium (FIE) March 1-5, 2006 Jaypee Palace Hotel and Convention Center, Agra, Sanjay Mittal.
2. Member, International Organizing Committee of ICCM07 & Session Chairman, International Conference on Computational Methods, Hisoshima JAPAN 4-6 Apr 2007), Sanjay Mittal.
3. Shanti Swarup Bhatnagar Prize in Engineering Sciences CSIR 2006, Sanjay Mittal.
4. Fellow Indian Academic Sciences since 2007, Sanjay Mittal.
5. Member Steering Committee Second Indo-US Frontiers of Engineering Symposium (FOE) 2008, Sanjay Mittal.
6. Member, Organizing Committee, REACH Symposium, IIT Kanpur March 7-10 Hotel Timber Trail Heights, Sanjay Mittal.
7. Associate Editor, International Journal of Aerospace Engineering Hindawi, Publishing Corporation since 2007, Sanjay Mittal.
8. INAE Young Engineer Award, A. Ghatak.
9. Invited to join the Editorial Board of 'International Journal of Oil, Gas and Coal Technology', Inter-Science publishers, J.P. Gupta.

10. Associate of Indian Academy of Sciences (2006-2009), Y.M. Joshi.
11. Indian National Science Academy Medal for Young Scientist (2006), Y.M. Joshi.
12. Distinguished Alumnus Award, Indian Institute of Technology, Kanpur (2007). A. Sharma.
13. Elected Fellow, National Academy of Sciences, India (2006), A. Sharma.
14. J. C. Bose National Fellowship, Department of Science & Technology (2006-2010), A. Sharma.
15. Friedrich Wilhelm Bessel Research Award, Alexander von Humboldt Foundation (2006), A. Sharma.
16. RPG Life Science Padma Vibhushan Professor M M Sharma Medal and Chemcon Distinguished Speaker Award of the Indian Institute of Chemical Engineers (2006), A. Sharma.
17. Member of Editorial Advisory Board, Canadian Journal of Chemical Engineering (2006-2007), A. Sharma.
18. Member of Editorial Board, Indian Chemical Engineer (Journal of the Indian Institute of Chemical Engineers; 2006-), A. Sharma.
19. INAE Young Engineer Award for the year 2006. Awarded by the Indian National Academy of Engineering for engineers below the age of 35, V. Shankar.
20. Department of Atomic Energy BRNS Young Scientist Award, 2006, J.K. Singh.
21. Received IRC-Pt. Jawaharlal Nehru Birth Centenary Award - 2005 from the Indian Roads Congress in the 67th IRC Annual Session, held at Panchkula, November 20, 2006, Das.
22. Best Poster presentation award at Map World Forum 2007 to paper 3D visualization of LiDAR data, Coauthored with Ghosh, S., Lohani B.
23. Fellow, Institution of Surveyors India, Lohani B.
24. Fellow, Indian National Academy of Engineering, Elected in September 2006, C.V.R. Murty.
25. S. S. Merh Award from Geological Society of India for contributions in Quaternary Geology, 2006, Rajiv Sinha.
26. Anil Seth, PC member FSTTCS 2006.
27. The poster "Wake-on-WLAN" under the guidance of Kameswari Chebrolu and Bhaskaran Ramana won the best poster award amongst 24 entries from PhD and M. Tech students of IITs, IISc and other premier institutes at the Microsoft Techvista 2007, Nilesh Mishra.
28. IBM Faculty Award, 2006, Mainak Chaudhuri.
29. Godel Prize for 2006, Manindra Agrawal.
30. Fulkerson Prize for 2006, Manindra Agrawal.
31. J C Bose Fellowship, Manindra Agrawal.
32. IBM Faculty Award, 2006, Prabhakar T.V.
33. Awarded the Fulkerson Prize for the year 2006, Neeraj Kayal and Nitin Saxena.

34. Awarded the Gödel Prize for the year 2006, Neeraj Kayal and Nitin Saxena.
35. Best Presentation Award in IRISS 2007, Barna Saha.
36. The Best Poster/Demo Award at WISARD 2007, Nilesh Mishra, Raj Kumar, Phani Kumar Valiveti and Hemanth Haridas.
37. Project "Autopilot Development for Mini UAV : Hardware Software Co-Design" under the guidance of Prof. Rajat Moona won the FIRST PRIZE in the AES All-India Student Project Contest - 2006 conducted by the IEEE-India AES/Com/LEO Societies Chapter, Mohit Mangal (CSE), Mohit Mundhra (CSE), Gaurav Gupta (EE) and Shobhit Niranjana (EE).
38. Outstanding Ph.D Student award of IBM India Research Lab for the year 2006, Piyush Kurur.
39. Program Chair, APSEC 2006, Pankaj Jalote.
40. General Chair, RE07, Pankaj Jalote.
41. Member International Program Committee Machine Translation Summit 2007 Copenhagen, Denmark, R.M.K. Sinha.
42. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC), R.M.K. Sinha.
43. Member Working Group on "Technology Development for Indian Languages (TDIL)", MCIT, Govt. of India, R.M.K. Sinha.
44. Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R.M.K. Sinha.
45. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R.M.K. Sinha.
46. Member IASTED International Technical committee, R.M.K. Sinha.
47. Finance chair, APSEC 2006, Sanjeev Kumar Aggarwal.
48. Finance Chair, RE07, Sanjeev Kumar Aggarwal.
49. Editorial Board of International Journal of Theoretical and Applied Computer Sciences, Sanjeev Kumar Aggarwal.
50. Program Committee member for the International Conference on Computing : Theory and Application (ICCTA' 07), March 5-7 2007, Kolkata, India, Shashank K. Mehta.
51. Elected Fellow, Institute of Electrical and Electronics Engineers (IEEE) for contributions to education in power electronic applications to transmission and distribution systems, A. Ghosh.
52. The Brij Mohan Lal Memorial Prize, Institute of Engineers, Kolkata, India, P.K. Kalra.
53. The Sir Arthur Cotton Memorial Prize, Institute of Engineers, P.K. Kalra.
54. Vice Chairperson, Technical Activities of IEEE India Council for the year 2006, S. C. Srivastava.
55. Invited to join as Member of the State Advisory Committee of the U.P. Electricity Regulatory Commission, S. C. Srivastava.

56. Member, Governing Council of Central Power Research Institute, Bangalore, S. C. Srivastava.
57. Member, Working Sub-group on 'Technology Advancement and R&D in Power' for XI plan, constituted by Ministry of Power, Government of India, S. C. Srivastava.
58. Vice Chairperson, Technical Activities of IEEE India Council for the year 2007, S. C. Srivastava.
59. Re-nominated as Member of the State Advisory Committee of the U.P. Electricity Regulatory Commission for 2007-09, S. C. Srivastava.
60. Elected Humboldt Fellow, S.N.Singh.
61. Elected Fellow of The Institution of Engineers (India)- (FIE) , S.N.Singh.
62. Alexander von Humboldt Research Fellow (May 2004-July 2005), S. Umesh.
63. Member International Program Committee Machine Translation Summit 2007 Copenhagen, Denmark, R. M. K. Sinha.
64. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC) , R. M. K. Sinha.
65. Member Working Group on "Technology Development for Indian Languages (TDIL)", MCIT, Govt. of India, R. M. K. Sinha.
66. Member PRSG on OCR and OHR Consortia, MCIT, Govt. of India, R. M. K. Sinha.
67. Member PRSG on English to IL MT Consortia, MCIT, Govt. of India, R. M. K. Sinha.
68. Member IASTED International Technical committee, , R. M. K. Sinha.
69. Senior member I.E.E.E, S. S. K. Iyer.
70. Tan-Chin-Tuan Fellowship from Nanyang Technological University, Singapore, Anjan K. Ghosh.
71. Biography included in the book titled, "2000 outstanding intellectuals of the 21 st century" edited by Sara Rains, International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, 2007, Fourth Edition, p. 526, Prof. RRK Sharma.
72. The AMERICAN MEDAL OF HONOR (received medal number 9 out of 100), American Biographical Institute Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web : www.abiworldwide.com, Prof. RRK Sharma.
73. Nominated as 2006 Man of The Year, American Biographical Institute Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web : www.abiworldwide.com, Prof. RRK Sharma.
74. Biographee, Marquis, Who's Who in Asia, 890 Mountain Ave, Suite 300, New Providence, NJ 07974, United States of America, Prof. RRK Sharma.
75. Biographee, Marquis, Who's Who in Science and Engineering, 890 Mountain Ave, Suite 300, New Providence, NJ 07974, United States of America.

76. International Advisory Council, International Conference on Operations and Quantitative Methods - VII, Jaipur India, Aug 3-5, 2006, Prof. R.R.K. Sharma.
77. Honorary Appointment to Research Council of International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, Prof. R.R.K. Sharma.
78. Invited to Join the Editorial Board of AIMS International Journal of Management, <http://www.aims-international.org/aijm/editorial.htm>, Prof. R.R.K. Sharma.
79. Consulting editor E-Social Sciences; Dr. Varman, Rahul.
80. Associate Editor of International Journal of Technology, Knowledge and Society, The university press, common grounds, Victoria, Australia, Dr. Veena Bansal.
81. President Operational Research Society of India, Prof. Ashok K Mittal.
82. Vice President and Director Quality Circle Forum of India Hyderabad, Prof. Ashok K Mittal.
83. Fellow, Indian National Academy of Engineering, K. Shanker.
84. Dr. B. Basu has been appointed as Foreign Member on Editorial board, Journal of Korean Ceramic Society, South Korea.
85. Dr. B. Basu has been appointed as a Member of International Advisory Panel, College of Biomedical Engineering and Applied Sciences, Kathmandu, Nepal.
86. Dr. B. Basu has been appointed as a Member of Editorial board, Trends in Biomaterials and Artificial Organ, only Indian Journal in the area of Biomaterials, Society of Biomaterials and Artificial Organs, India.
87. Dr. Ashish Garg, Ramanna Fellowship, Department of Science and Technology, Government of India (2006)
88. Fellow, Indian Academy of Engineering, 2006, K. Muralidhar.
89. Fellow of the American Society of Mechanical Engineers (ASME) Dr.G.Biswas
90. Best Paper Award in a conference the details of which are given below:, A.K.Saha
91. (A.K.Saha, G.I. Mahmood, Sumanta Acharya, The Role of Leading-Edge Contouring on End-Wall Flow and Heat Transfer: Computations and Experiments, Proceedings of the ASME IGTI 2006, Barcelona, Spain, May 8-11, 2006).
92. Young Scientist Award, 2006, Systems Society of India, Bishakh Bhattacharya.
93. Ramanna Fellowship, Department of Science and Technology, Government of India, 2006, A. Chandra.
94. Lalit Kapoor Chair Professor, V. Chandrasekhar.
95. Member of Advisory Board and Session Chair for the "Lecture delivered by Lov Grover" at the Indo-US Shared Vision Workshop on Soft, Quantum and Nano Computing, Dayalbagh Educational Institute, Agra, February 22 (2007), D. Goswami.
96. J.C. Bose Fellow, Department of Science and Technology, New Delhi 2006, N. Sathyamurthy

97. Ramanna Fellowship by the Department of Science and Technology, New Delhi, Y D Vankar
98. Edited a special issue on 'Carbohydrate Chemistry', edited by Y. D. Vankar;
99. Proc. Indian National Science Academy, 2005, Y D Vankar

(F) CONTINUING EDUCATION ACTIVITIES

1. Acted as the resource person at SSGM College of Engineering, Shegaon, Maharashtra for AICTE sponsored First Course on CFD, 30 - 31 March, 2007. (30 participants from other engineering college and industry), Tapan K. Sengupta.
2. Structure-Rheology and Processing of Polymer Nanocomposites, QIP course on, "Recent Trends in Nanocomposites," Indian Institute of Technology-Kanpur, November 2006, Y. M. Joshi.
3. Organized a SERC-DST school on Rheology of complex fluids at IIT-Kanpur in December 2006, Y. M. Joshi.
4. Organized a 3rd National Symposium on Rheology of complex fluids at IIT-Kanpur in December 2006, Y. M. Joshi.
5. Future of the past: Use of modern technologies in archaeology, IIIT Jabalpur sponsored, IIT Kanpur, 12 June to 7 July 2006 (Major resource person), Lohani, B.
6. Seismic Design of Bridges" (Self Sponsored) at IIT Kanpur during 15-19 January, 2007 (52 participants) , C V R Murty with Professors Durgesh C Rai and Sudhir K. Jain.
7. Organised and/or conducted with Professors Durgesh C Rai and Sudhir K. Jain, continuing education programs for teachers of engineering colleges and polytechnics on "Seismic Design of Buried Pipelines" at IIT Kanpur in April 2006, (24 participants), on "Nonlinear Seismic Analysis of Structures" at IIT Kanpur in October 2006.
8. Organised and/or conducted with Professor Persi Engineer (Sarvajanik College of Engineering and Technology, Surat) and Ar. Amit Bose (Designers and Planners Combine, New Delhi), continuing education program for teachers of colleges of architecture, and professional architects and planners, on "Architecture for Earthquake Resistance of Buildings" at SCET, Surat in November-December 2006.
9. Five lectures delivered at the Winter School on Modeling of Planetary Atmospheres organised by Physical Research Laboratory, Ahmedabad, Tripathi, S.N.
10. Participation in High Level Industry Academia Interaction Programme during Summer: No, Tripathi, S.N.
11. Organized the Third International Workshop on Biometrics held on December 2006 at IIT Kanpur, Phalguni Gupta.

12. Organized a Workshop on High Performance Computing held in July 2006 at IIT Kanpur, Phalguni Gupta.
13. Convened the National Workshop on Power Electronics, NWPE 2006, at IIT Kanpur, from October 30-November 1, 2006. 90 participants, P. Sensarma.
14. Lecture module (8 hours) delivered at BHEL, Bhopal on "Power Electronic Converters", November 9-10, 2006. 20 participants, P. Sensarma.
15. Co-organized a short term course under QIP scheme of AICTE on 'Electric Power System Operation and Control: Modern Trends and Future Challenges' during 28th August - 1st September 2006, at IIT Kanpur, Coordinators: S.N. Singh and S.C. Srivastava.
16. Mar 14-15, 2006. Organized "Workshop on Recent Advances in Controls & Sensors" at IITK. Speakers included faculty of IIT Kanpur and scientists from ISRO. Audience included faculty & students from NITs, IITs, and engineering colleges, and engineers and researchers from industry, R. Potluri.
17. Coordinator of Quality Improvement Program Course on Electric Power System Operation and Control: Modern Trends and Future Challenges at IIT Kanpur, August 28- September 1, 2006, S.N.Singh.
18. Organizing Member of Winter School on Speech & Audio Processing (WISSAP'06 - 07), Bangalore. Self Sponsored (70 from Academia, 30 from Industry), S. Umesh.
19. Organization, Coordination, and main Instruction of Avionics Course For HAL candidates, K. S. Venkatesh.
20. Short course on "Introduction to VLSI Design" at HBTI, Kanpur from 19th to 21st Jan., 2006. Gave one hour inaugural talk on "VLSI Processing" on 19th Jan., 2006. Attendance was from academia (~40 participants), S. S. K. Iyer
21. Short course on "Energy Management" at MNNIT, Allahabad from 27th to 31st March, 2006. Gave three one-hour lectures on "Organic Solar Cells" on 28th March, 2006. Attendance was from academia and industry (~80 attendees), S. S. K. Iyer
22. Short course under Instruction Enhanced Programme under the Special Manpower Development Programme II of MCIT, on "Digital IC Design" from 3rd to 14th July, 2006 at IIT Kanpur. Attendance (~25) was from academia from participating institutes of MCIT. S. Qureshi, S. S. K. Iyer, B. Mazhari, A. Dutta, A. Joshi
23. QIP short course on "Organic Electronics" from 17th to 21st July, 2006 at IIT Kanpur. Helped in organization as well as presented four one-hour lectures. Attendance (27 nos.) was from academic institutions, S. S. K. Iyer, B. Mazhari
24. Tutorial on "Organic Electronics - Technology, Devices, Circuits and Applications" at the 20th International Conference on VLSI Design at Bangalore on 6th January, 2007. Helped organize the six hour tutorial and also conducted it for three hours. Number of participants was 25 from both academia and industry.

25. QIP Short Course on Advances in Materials and Fuel Technologies for Automotive Applications, 8-12th June 2006, IIT Kanpur
26. Offered a certificate course on Supply Chain Management through SIIC, IIT Kanpur. Mehta, P.
27. Accounting for Managers, Ordinance Factory Kanpur, B.V.Phani.
28. Quantitative Analysis of in VIVO Magnetic Resonance Imaging Data for Diagnostics of Vascular Diseases supported by CFD Simulation, Indo-Swiss project supported by Department of Science and Technology, New Delhi, (2006-2008), K.Muralidhar.
29. Recent Trends in Nano Composites, November 6th-10th 2006 at IIT Kanpur. J. Ramkumar.
30. Short term course, Mathematical Methods in Science and Engineering, QIP-sponsored, 3-15 July 2006, B. Dasgupta.
31. Short term course, Mathematical Methods in Science and Engineering, Self-sponsored, 27 February - 17 March 2007, B. Dasgupta.
32. Coordinator for the 2nd National Workshop on Smart Materials for the Design of Intelligent Systems and Industrial Application, 23-25 March 2007, Bishakh Bhattacharya.
33. Recent trends in Nano Composites, QIP, Kanpur, November 06-10, 2007, Number attended from academic: 35, Industry/others:10, Kamal K. Kar and J. Ramkumar.
34. Fundamentals of IC Engines, One week sponsored course offered to RDSO engineers (15 participants), March 2007, A.K.Agarwal.

(G) PARTICIPATION IN HIGH LEVEL INDUSTRY ACADEMIA INDUSTRY INTERACTION PROGRAMME DURING SUMMER

1. Summer consultant to Chevron Refining, Richmond, CA, USA, D. Kunzru.
2. Conceptualized and organized the first meeting of Expert group on Coordinated programme on Research and Development in Airborne Altimetric LiDAR Technology at IIT Kanpur on 14 June 2006, Lohani, B.

(H) ANY OTHER IMPORTANT ACTIVITY NOT SPECIFIED IN ABOVE COLUMNS

1. Sustained activity in spreading literacy and Primary Education through an NGO called Shiksha Sopan, K. Ghosh.
2. Member, Organising Committee for 1-st US-Asian Demonstration and Assessment of Micro-Aerial and Unmanned Ground Vehicle Technology, C. Venkatesan.
3. Assumed Charge as Coordinator, Structures Panel of Aeronautics R&D Board, DRDO, C. Venkatesan.
4. Consultant to Delhi-Metro Railways Corporation for the proposed link between New Delhi Rail station to Airport, Tapan K. Sengupta.
5. Visited BIT-Sindri as Member - National Board of Accreditation (NBA) set-up by AICTE, P.K. Bhattacharya.
6. Attended meeting in Krishi Bhawan as Member, Advisory Board, National Sugar Institute, Kanpur (From September 2006) , P.K. Bhattacharya.
7. Reviewed for Journals, Canadian Journal of Chemical Engineering, Chemical Engineering Journal, Industrial Engineering Chemistry & Research, Journal of Hazardous Materials, Journal of Membrane Science, Water Research, P.K. Bhattacharya.
8. Member- Selection Committees, IIT-Delhi (New Delhi), IIT-Kharagpur, P.K. Bhattacharya.
9. Project Evaluated, DST, P.K. Bhattacharya.
10. Thesis Examiner, IIT-Kharagpur, University of Kerala, Aligarh University, P.K. Bhattacharya.
11. Review of manuscripts of Catalysis Today, Applied Catalysts General A, International Journal of Chemical Reaction Engineering and Catalysis Communication, G. Deo.
12. Appointed Director General, Gujarat Energy Research and Management Institute, Gandhinagar to set up a new University in Petroleum Technology and Management , J. P. Gupta.
13. Member- Selection Committees, IIT-Gowahati (Nov. 2006), IIT-Roorkee (Feb. 2007), Ashok Khanna.
14. Reviewed research paper manuscripts for (a) Chemical Engineering Science (b) Journal of Chemical Thermodynamics & (c) Industrial Engineering Chemistry Research, Ashok Khanna.
15. Structural design of Modern Hangar with Annexe at Bareilly (U.P.), Chakrabarti, S.K.
16. Proof-checking of the design of POT/PTFE bearings for H.L. Bridge at Katonjha over river Bagmati in Muzaffarpur (Bihar), Chakrabarti, S.K.
17. Rectification of the defective construction of the Swimming Pool under construction at Saifai (Etawah) (U.P.) (Sponsored by : U.P. Rajkiya Nirman Nigam Ltd.; Sanctioned Amount : Rs. 1.4 lakh) , Chakrabarti, S.K.

18. Developed (along with Dr. A. Das, CE, IITK) Web-based NPTEL course on Transportation Engineering, Chakraborty, P.
19. Principal Investigator of the Wastewater Treatment and Management (WWTM) project of Asian Regional Research Programme in Environmental Technology II (ARRPET II). The project consists of five National Research Institutes (NRIs) from Thailand, Vietnam and India. More information is available at <http://www.arpet.ait.ac.th/wwtm/team.html>, S. Guha.
20. Center for Advanced Studies Visiting Fellow, Institute of Technology, Banaras Hindu University, Tripathi, S.N.
21. Member of Cloud Steering Committee, Department of Science and Technology CTCZ Experiment, Tripathi, S.N.
22. Member, Core Committee, Mars Orbiter, Appointed by Director, Physical Research Laboratory, Department of Space, Ahmedabad, Tripathi, S.N.
23. Member of Task Team and Steering Review Committee of the Space Borne Lidar Project, Vikram Sarabhai Space Centre, Thiruvananthapuram, Tripathi, S.N.
24. Participated in the 2nd National Frontiers of Science (NatFOS) Symposium held during 3-4 December, 2006 at INSA, New Delhi, Tripathi, S.N.
25. NPTEL Video Course on Power System Operation and Control, S.N. Singh.
26. Organized the 13th National Conference on Communications at IIT Kanpur during 26th to 28th January, 2007, A.K. Chaturvedi.
27. Electronic Fabrication (ELFAB) module at 4-i Laboratory, S. Sensarma.
28. The High Voltage laboratory was enhanced with modern detection equipment: Partial discharge detector, high resolution high speed Basler camera, Pico-ammeter, photon counter, etc. N. Gupta.
29. Developed a DSP Laboratory based on Texas Instruments TMS320C6711/C6713 processors, A. Banerjee.
30. Expansion and Upgradation of VLSI / EDA Laboratory for Teaching, Research and Conducting of Courses for Participants from Colleges and Industry, WL-211, S. Qureshi
31. Setting up of Organic Characterization Lab' in WL-125, B. Mazhari & S. S. K. Iyer.
32. Participated in Class 1000 Room Functioning, SAMTEL Centre for Display Technology, S.S.K. Iyer.
33. Member, Organizing Committee, National Workshop on Intellectual Property Rights, 31st March to 1st April 2007, IIT Kanpur, B.V. Phani.
34. Created a Web-based Course on Fluid Mechanics for the sophomore students (open to all, under the auspices of NPTEL, an consortium of the Ministry of Human Resource and Development) [URL

- :http://www.nptel.iitm.ac.in/courses/Webcourse-contents/IIT-KANPUR/30Oct/FLUID-MECHANICS/ui/Course_home-1.htm]], G.Biswas.
35. Expert Member, Technical Committee for Evaluation of Vehicle Emission Factors Development, Central Pollution Control Board, New Delhi, B.P.Pundir
 36. Expert Member, Standing Committee on Emission Standards for Off- Highway RIC Engines, Central Control Pollution Control Board, New Delhi, B.P.Pundir
 37. Consultant on EU 'Quantify' Project being conducted by European Union-Central Institute of Road Transport, Pune on Emission Inventory from Transport Vehicles in India, B.P. Pundir
 38. Guest Editor in Vasundhara Devi, G. Jayaraman, S. Leela, and A. Sengupta (Editors). Nonlinear Analysis - A Comprehensive Survey of Theory and Applications in honour of Professor V Lakshmikantham's 85th birth anniversary in 2008. To be published by Elsevier, A.Sengupta.
 39. Plenary 1-hr Lecture in World Congress of Nonlinear Analysts (WCNA)-2008, July 2008, A.Sengupta.
 40. Involved with Organizational activities of Indo-Japan seminar on Advanced Manufacturing, N.V.Reddy.
 41. Sponsored projects on Tele-ophthalmology, Ministry of Health and Family Welfare, Rs.10 lakhs, duration one year, Harish Karnick.
 42. Project on Open Philosophies of Associative Autopoietic digital ecosystemS (OPAALS) sponsored by European Commission, Prabhakar T.V.
 43. Project on Voice Processing sponsored by General Motors, Prabhakar T.V.
 44. Rajat Moona established a "Storage Lab" with collaboration and funding from TCS Lucknow. The lab facilities include a HP NAS Server with 500GB storage and a EMC SAN Server with 1.5TB storage. In addition to this the lab uses various new technologies related to the storage such as iSCSI initiator and iSCSI target. Several research works are also being carried out in the lab including research on the state-of-art in storage such as object oriented storage servers, security and availability of data etc.
 45. The department has become the nodal centre in supporting the courses related to multi-core programming and architecture in the country. The project is funded by Intel Corporation. We have developed course ware on "Program Optimization for Multi-core Architecture". The course ware is being distributed to other engineering colleges. We are participating in workshops being organized by Intel to propagate this technology, and for conducting teacher's training programmes. Intel has established a laboratory having multi-core desktops and servers to support this activity. The laboratory also has all the Intel multi-core related software.
 46. Reviewed Ph.D. theses each for Banaras Hindu University and Indian Institute of Science, R. Gurunath.

47. Reviewed manuscripts for journals Peptide Research and Current Science, R. Gurunath.
48. Executive member and co-editor of the Indian peptide society newsletter, R. Gurunath.
49. A special Issue on 'Coordination Polymers', Edited by J. N. Moorthy and J. J. Vittal; J. Mol. Struct. (An Elsevier Journal) 2006, Vol. No. 796.
50. Organizer, International Conference on Quantum Computing: Back Action 2006 held during March 06-12, 2006. Funded through Indo-US, Max-Planck (Garshing) and MIT (USA), D Goswami.
51. Organized (with Prof. T. Chakraborty, IACS, Kolkata) the fourth International discussion meeting on Spectroscopy and Dynamics of Molecules and Clusters, held from February 23-25, 2007 at the Corbett National Park, India, K. Srihari.