

Publications and Outreach Activities

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363. Polystyrene Coating Protects the Nanocrystalline Silicon Layers from Light Soaking, N. P. Mandal, A. Kumar and S. C. Agarwal, Proc. of International Conference on MEMS and Semiconductor Nanotechnology (MEMSNANO), I. I. T. Kharagpur, 2005.

364. Polystyrene Coating Reduces the Photo Degradation of Amorphous Silicon, N. P. Mandal, A. Kumar and S. C. Agarwal, Proc. in 50th DAE Symposium, Dec 2005, BARC, Mumbai.
365. Polycrystalline form of the flux line lattice and the anomalous variation in the critical current density. S. S. Banerjee, A. D. Thakur, S. Ramakrishnan, A. K. Grover, Proceeding of the DAE Solid State Physics Symposium, 50, 667-2205.
366. Effect of Driving force on the state of phase coexistence in weakly pinned single crystals of CeRu₂ and Lu Ni₂B₂C and LuNi₂B₂C. D. Jaiswal-Nagar, A. D. Thakur, S. S. Banerjee, T. Isshiki, H. Aoki, Y. Onuki, M. R. Eskildsen, P. C. Canfield, S. Ramakrishnan, A. K. Grover, Proceeding of the DAE Solid State Physics Symposium, 50, 673 2005.
367. Criterion of sheath formation for negatively charged particles, H. Amemiya and S. Bhattacharjee, Proceedings of the XXVII International Conference on Phenomena in Ionized Gases, 08-145, July 18-22, 2005, Eindhoven, The Netherlands
368. Anomalous density of states in hybrid normal metal-superconductor bilayers, Anjan K. Gupta, L. Cretinon, H. Courtois and B. Pannetier, Pramana 66, 251 2006.
369. YbCo₄Ge₂ and YbNi₅G₃: Two compounds with a stable trivalent, antiferromagnetically ordered Yb state, H. S. Jeevan, Z. Hossain, C. Geibel; Proceedings of International Conference on Strongly Correlated Electron Systems held in Karlsruhe, Germany, July 2004 published in Physica B Vol.359-361, Apr 30, 2005, p235-238
370. V.L.N. Sridhar Raja, Sharad Gupta, Asima Pradhan Recovery of intrinsic fluorescence of tissue mimicking model media and human breast tissues from spatially resolved fluorescence and simultaneous evaluation of optical transport parameters Proc. SPIE Vol. 6091 p. 12-21, Optical Biopsy VI, (Feb 2006).
371. V.L.N. Sridhar Raja, Kalpana Mandal and Asima Pradhan Depth Resolved Fluorescence Technique National Laser Symposium, held at Vellore, Jan.2006.
372. Prashant Shukla, R. Sumathi, Sangeeta Chakrabarti and Asima Pradhan, A Study of the Dependence of Image Quality on Refractive Index of Scatterer in Polarimetric Imaging through Turbid Media National Laser Symposium, held at Vellore, Jan. 2006.
373. Recent developments in Rayleigh Benard Convection, M. K. Verma, in the proceedings of the National Conference on Nonlinear systems and dynamics-2006 (Chennai), Ed. M. Lakshmanan, R. Sahadevan, p.137, 2006.

374. Non-linear effects in negative magnetic meta-materials Proc. XXVIIIth URSI General Assembly, New Delhi, India, 23-29 October 2005, S. A. Ramakrishna, S. O'Brien and J. B. Pendry.
375. Electrical transient based defect spectroscopy in polymeric and organic semiconductors, Y.N.Mohapatra, V. Varshney, V. Rao, S.P. Singh, G.S. Samal, Mater. Res. Soc. Symp. Proc. Vol. 864 © 2005 Materials Research Society E5.1.1
376. PECVD grown polymorphous hydrogenated silicon (pm-Si:H) studied using current transient spectroscopies in PIN Diodes, Vibha Tripathi, Y N Mohapatra, P. Roca i Cabarrocas, Mater. Res. Soc. Symp. Proc. Vol. 862 © 2005 Materials Research Society A18.2

SEMINAR PRESENTED

1. Ballistics and Aerodynamics of Long Range Rockets, ARDE, Pune, A. K. Ghosh.
2. Laser Doppler Velocimetry (LDV) and Phase Doppler Particle Analyzer (PDPA) and their application in Industrial Systems, National Workshop on Combustion Diagnostics, Organized by: Programme AD, Hyderabad Under the Auspices of the Combustion Institute (Indian Section) 23rd-24th June, 2005, A. Kushari.
3. Theory and Applications of Liquid Atomization, workshop in liquid atomization and spray modeling, CEEES, DRDO, New Delhi, 12-14, Spet. 2005, A.Kushari..
4. Invited Lecture Finite Element Computations towards understanding Bluff Body Flows at the International Conference on Computational and Experimental Engineering and Sciences (ICCES'05, December 1-6, IIT Madras Chennai, 2005, S.Mittal.
5. Invited Lecture Instabilities in Bluff Body Flows at the Indo-German Winter Academy, Tata Steel, Jamshedpur, December 11, 2005, S.Mittal.
6. Invited Lecture finite Element Computation of fluid flows, National Symposium on Scientific Computing with Application to Partial Differential Equations (NSSCAPDE05, Indian Institute of Technology Kanpur, November 19-21, 2005, S.Mittal.
7. Contributed talk Effect of blockage on vortex induced at low Re at the 4th Conference on Bluff Body Wakes and Vortex-Induced Vibrations-BBVIV4, 21-24 June, Santorini Island, Greece 2005, S.Mittal.
8. Invited Lecture Vortex Induced Vibrations of a Circular Cylinder At Low Reynolds Number, The Mechanical and Aerospace Engineering Department, School of Engineering and Applied Science, The George Washington

- University, 801 22nd St. NW, Washington, DC 20052, USA June 17, 2005, S.Mittal.
9. Wind tunnel measurements for modeling large amplitude high alpha maneuvers, National Aerospace Laboratories, Bangalore Oct. 18, 2005, in Advances in Wind Tunnel Test Technique, T.G. Pai.
 10. Presented a seminar entitled Biomaterials, July 4-22, 2005, SERC Summer School in Solid State and Materials Chemistry at Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore, India. Summer School sponsored by Department of Science and Technology, Government of India, Dhirendra S. Katti.
 11. Aerosol and Colloidal Route to Materials at Nanoscale, IISc, Bangalore, June, 2005, Rajdip Bandyopadhyaya.
 12. Invited Lecture on An overview of pressure driven membrane processes, at Z H College of Engineering, Chemical Engineering Department, on January 28, 2006, P.K. Bhattacharya.
 13. Invited Lecture in International Harcourtian Meet and Seminar cum Expo 2005 on Impact of Technical Education on Society, November 25, 2005, P.K. Bhattacharya.
 14. Thermal Analysis at the National Symposia on Current Trends in Materials Characterization, IIT Kanpur, December, 2005, G. Deo.
 15. Formosa Plastics Group, Maliliao Village, Yunlin country, Taiwan, December, 2005, J.P. Gupta.
 16. Institute of Occupational Safety and Health, Taipei, Taiwan, December, 2005, J.P. Gupta.
 17. Japan Society of Safety Engineers, Tokyo, November, 2005, J. P. Gupta.
 18. National Yunlin University of Science & Technology, Taiwan, December, 2005, J.P. Gupta.
 19. Research Institute of Safety Engineering, Tokyo, November, 2005, J.P. Gupta.
 20. Hikal's CHEMCON Distinguished Speaker Award (Indian Institute of Chemical Engineers, Annual Meeting) Title: Multi-Objective Optimization of an Industrial LDPE Reactor, Dec 2005, S.K. Gupta.
 21. Dynamics of smectite clay filled systems, Javaharlal Neharu center for advanced scientific research, Bangalore, 29 March, 2006, Y.M. Joshi.
 22. Dynamics of smectite clay filled systems, John Welch Technology center, GE Plastics, Bangalore, Bangalore, 27 March, 2006, Y.M. Joshi.
 23. Delivered 12 hours of lectures on 'Polymer dynamics and rheology' to the Polymer Group at NCL Pune, July 2005, V. Shankar.
 24. Stability and dynamics of fluid flow past deformable solid media, Invited lecture at the 16th Mid-Year meeting at the Indian Academy of Sciences, Bangalore, July 2005, V. Shankar.

25. DMSRDE (Kanpur) A. Sharma
26. Banaras Hindu University (Varanasi), A. Sharma.
27. University of Western Ontario, A. Sharma.
28. Carnegie Mellon University, A. Sharma.
29. University of California at Irvine, A. Sharma.
30. National Center for Biological Sciences (Bangalore), A. Sharma.
31. General Electric Research Center (Bangalore), A. Sharma.
32. Central Glass and Ceramic research Institute (Kolkata), A. Sharma.
33. Hydrogen bond dynamics in aqueous solutions under normal and supercritical conditions, S.N. Bose Centre for Basic Sciences, Salt Lake, Kolkata, on January 12, 2006, A. Chandra.
34. Organostannoxane motifs in cages and supramolecular architectures. April 18 2005. Workshop on Organometallic Chemistry April 18-20, BARC, Mumbai, V. Chandrasekhar.
35. Structural Aspects of Aminosilanols. August 2 2005. Invited lecture at the 14th International Symposium on Organosilicon Chemistry, July 31-August 5 2005, Wuerzburg, Germany, V. Chandrasekhar.
36. Organostannoxanes and organophosphonates. Sep 24 2005. Sri Sathya Sai Institute of Higher Learning, Puttaparthi. A conference sponsored by Indian academy of sciences, Bangalore, Sep 24-26 2005, V. Chandrasekhar.
37. Nobel Prize in Chemistry-2005. Nov 7th 2005. IIT-Kanpur, V. Chandrasekhar.
38. Silicon-Silicon Triple Bond: A Mile Stone in Chemistry. October 17 2005. Frontier Lectures in Chemistry, Banaras Hindu University, October 16-18, 2005, V. Chandrasekhar.
39. Inorganic-Cored Starbursts. October 18 2005. Frontier Lectures in Chemistry, Banaras Hindu University, October 16-18, 2005, V. Chandrasekhar
40. Stannoxanes and phosphonates: New approaches in organometallic and transition metal assemblies. Dec 8 2005. Invited Lecture at the 11th Symposium on Modern Trends in Inorganic Chemistry. Dec 8-10, 2005, New Delhi, V. Chandrasekhar.
41. Multi-metal assemblies. Feb 17 2006. Talk at a Condensed Matter Workshop, IIT-Kanpur Feb 17-19 2006, V. Chandrasekhar.
42. Stannoxanes and phosphonates: New approaches in organometallic and transition metal assemblies. Feb 21, 2006. Invited talk at Singapore-India Collaborative and Cooperative Chemistry Symposium-4. National University of Singapore, Singapore, Feb 20-21, V. Chandrasekhar.
43. (i) Convenor: 'Symposium on Nanoscience and Nanotechnology, 24th Annual
44. Conf., Indian Council of Chemists, BIT-Mesra, Ranchi, December, 16-18, 2005,
45. N.S. Gajbhiye.
46. (ii) Convenor: Chhattisgarh Swami Vivekanand Technical University, Bhilai,

- a. (Raipur), 'National Workshop on Nanotechnology, August 27-28, 2008,
- b. N.S. Gajbhiye.
47. 12. Instrumentation, Debabrata Goswami, Symposium on Digital Fabrication
48. Hogskolen, Tromso Norway, Aug.10-17 2005, G. Goswami.
49. A Motley of fs Induced Processes with Intermediate Intensity Lasers, Debabrata Goswami, Department of Nuclear & Atomic Physics Seminar, Tata Institute of Fundamental Research, Mumbai, Jan. 06 2006, D. Goswami.
50. BARC: Novel materials and structural chemistry division, Mumbai, April 2005, B.D. Gupta
51. Department of Chemistry, I. I. T. Kanpur April 2005, B.D. Gupta.
52. Department of Chemistry, I. I. T. Roorkee Aug 2005, B.D. Gupta.
53. Department of Chemistry, National University of Singapore March 2006, B.D. Gupta.
54. Department of Chemistry, NTU, Singapore, March 2006, B.D. Gupta.
55. Intramolecular vibrational energy flow: Decisive influence of the classical phase space structures, Chennai, India, February 2006, K. Srihari
56. Classical-Quantum correspondence study of vibrational energy flow in strongly coupled systems with three degrees of freedom, Nottingham, UK, June 2005, K. Srihari
57. Dynamical tunneling: role of the classical resonances, Bristol, UK, April 2005, K. Srihari
59. White light emitting organic molecules: synthesis and device strategies., Dept of Physics, University of Maryland, May 2005, S. Sundar Manoharan.
60. Molecular Self-Assembly: New Structural Motifs and Rational Approaches to Porous Organic and Metal-Organic Frameworks, Department of Chemistry, University of Essen, Essen, Germany, Date : 17th May, 2005, J.N. Moorthy.
61. Control of Organic Molecular Photoreactivity and Ordering in the Solid State, Department of Chemistry, Dresden University, Germany, Date : 05th April, 2005, J.N. Moorthy.
62. Enforcing aggregation in small peptide conjugates, Department of Bioengineering, University of Twente, Enschede, The Netherlands, 2005, Sandeep Verma.
63. Invited talk on May 26, 2005 at University of Goettingen, Germany, V.K. Singh
64. Invited talk on June 03, 2005 at Univ of Caen, France, V.K. Singh
65. Invited talk on June 05, 2005 at Leipzig University, Germany, V.K. Singh
66. Invited talk on June 13, 2005 at Univ of Dresden, Germany, V.K. Singh
67. Invited talk on June 16, 2005 at Univ of Bonn, Germany, V.K. Singh
68. Invited talk on July 05, 2005 at Honeheim University, Stuttgart, Germany, V.K. Singh

69. Invited Lecture at ACS symposium held during January 5-6, 2006 at NCL, Pune, V.K. Singh
70. Invited lecture at a symposium INSOC 2006 held during January 9-11 at Kottayam, V.K. Singh
71. Invited lecture at a symposium National Organic Chemistry Seminar held during Feb 22-23, 2006 at Kolkatta, V.K. Singh
72. Atomic and molecular clusters: designer materials for the nanoworld, Kumaon University, Nainital, December 4, 2005, N. Sathyamurthy.
73. Atomic and molecular clusters: designer materials for the nanoworld, University of Hyderabad, Hyderabad, March 14, 2006, N. Sathyamurthy
74. An overview of the research activities at IIT Kanpur, Invited seminar presented at the School of Geography, March 02, 2006, University of Leeds, Leeds, UK, Jain, Ashu.
75. Estimating groundwater pollution source location from observed breakthrough curves using neural networks in Session HEE2005 - AI applications to hydraulics and environmental engineering at the 2nd Indian International Conference on Artificial Intelligence (IICAI2005, December 20-22, 2005, Pune, INDIA, Jain, Ashu.
76. Estimation of concrete slump based on mix constituents using artificial neural networks in Session NCIEM05 - Natural computing in infrastructure engineering and management at the 2nd Indian International Conference on Artificial Intelligence (IICAI2005, December 20-22, 2005, Pune, INDIA, Jain, Ashu.
77. Locating groundwater pollution source using breakthrough curve characteristics and artificial neural networks in Session H35 - Soft computing tools for hydrologic modeling at the AGU Fall Meeting 2005, December 5-9, 2005, San Francisco, California, USA, Jain Ashu.
78. Evaluation of the sensitivity of learning rate on the training of neural network hydrologic models in Session H35 - Soft computing tools for hydrologic modeling at the AGU Fall Meeting 2005, December 5-9, 2005, San Francisco, California, USA, Jain Ashu.
79. Hydrological aspects of CTCZ and rainfall runoff modeling in the Indo-Gangetic plains, Brainstorming seminar on continental tropical convergence zone, Indian Climate Research Programme of DST, 28-30 June 2005, Birla Institute of Technology, Mesra, Ranchi, India, Jain Ashu.
80. Micromechanical analysis of asphalt mix, Department of Civil Engineering, IIT Madras, 19th July, 2005, Das A.
81. Cold in-place recycling with bitumen emulsion, Indo-Belarus Seminar on Bitumen Emulsion and Cold Mix Technologies, Central Road Research Institute, New Delhi, 19th October, 2005, Das A.

82. Optimization of pavement design, Indian Roads Congress Annual Session, Bhubaneswar, 11th November, 2005, Das A..
83. Effects of 2004 Sumatra Earthquake in Andaman and Nicobar Islands and Mainland India , International Workshop on Modelling Tsunamis - Generation, Propagation and Impacts, 1-2 April 2005, IIT Madras, Murty C.V.R.
84. Invited lecture at Center for Atmospheric and Oceanic Sciences, IISc, Bangalore, Tripathi, S.N.
85. Fermat's Last Theorem: From Integers to Elliptic Curves, Homi Bhabha Center, for Science Education, December 2005, Manindra Agrawal.
86. Manindra Agrawal Determinant versus Permanent, Chennai Mathematical Institute, January 2006,.
87. Is n a Prime Number? Dutch Mathematical Congress, March 2006, Manindra Agrawal.
88. RuralNet (Digital Gangetic Plains): WiFi-Based Low-Cost Rural Networking Keynote Presentation, Symposium on Wireless Networking Systems, University of Philippines, 19 Nov 2005, Bhaskaran Raman.
89. Satyam Computers Ltd, Hyderabad, July 2005, Pankaj Jalote.
90. Philips Research in Philips Innovation Campus, March 2005, Pankaj Jalote.
91. IBM India Research Lab, Feb 2005, Pankaj Jalote.
92. Dept of CSE, Indian Institute of Technology, Kanpur, Feb, 2005, Pankaj Jalote.
93. Topic Map and Development tools for Agricultural Knowledge Repository Architecture, Mission 2007-Digital Content Task Force Seminar at Indian Science Congress, January, 5, 2006, T V Prabhakar.
94. Comparative approaches to thesaurus Building Methodologies for Domain Knowledge aggregation ICRISAT, Hyderabad, June 14-15, 2005, T V Prabhakar.
95. Workflows, University of Mauritius, September 2005, Mauritius, T V Prabhakar.
96. Petri Nets and Workflows, IBM Pune September 2005, T V Prabhakar.
97. The Landscape of Software Architecture, IBM Hyderabad, January 2005, T V Prabhakar.
98. Computer and Internet Security CBI Academy, Ghaziabad, December 2005, Dheeraj Sanghi.
99. Internet: Risks and Rewards NIFFT, Ranchi, January 2006, Dheeraj Sanghi.
100. IPv6: Status and Transition Mechanisms Airtight Networks, Pune, February 2006, Dheeraj Sanghi.
101. Tutorial delivered at IEEE Power Engineering Society General Meeting in San Francisco., A. Ghosh

102. IEEE Tutorial Course – IEEE Power Engineering Society, No. 05TP176, IEEE-PES General Meeting, San Francisco, 2005, Application of Power Electronics to Power Distribution System, A. Ghosh and G. Ledwich.
103. Keynote Lecture delivered at 2nd National Power Electronics Conference in IIT Kharagpur. Power converters and their applications. A. Ghosh.
104. Distinguished Lecture presented at Department of Electrical Engineering, University of Seville, Spain in May-June, 2005, FACTS and custom power technologies. A. Ghosh.
105. VLSI Design Methodology, HBTI, Jan. 2006, B. Mazhari,.
106. Power System Restructuring, MMMEC Gorakhpur, February 17-18, 2006, S. N Singh
107. Introduction to FACTS, KNIT Sultanpur, March 24-25 2006, S. N Singh.
108. Machine Translation Summit 2005, Phuket, R. M. K Sinha.
109. Member International Program Committee and Session Chair, The Fourth IASTED International Conference on Computational Intelligence (CI 2005 Calgary, Canada, July 4 - 6, 2005, R. M. K Sinha
110. Session Chair at International Conference on Artificial Intelligence (ICAI-2005, Las Vegas, USA, July 27-30, 2005, R. M. K Sinha

111. Optical Communications: An overview, Techsrijan 2006, 30 March 2006, MMMEC, Gorakhpur, Y. N Singh.
112. All-optical packet switching, Conference on Electronic circuits and communications, Feb 9-10, 2006, TIET, Patiala, Y. N Singh.
113. Brihaspati: An opensource elearning platform, Conference on Digital Learning Environments, ISI Bangalore Center, 11-13 January 2006, YN Singh.
114. Brihaspati Virtual classroom, ELELTECH, CDAC-Hyderabad, 8-9 August 2005.
115. National Law School University of India, 6-7 August 2005, Y.N. Singh.
116. Open Source for equitable information society, World Telecom Day Celebrations, IETE Kanpur local center and IE (I), Kanpur, held in LHC, IIT Kanpur, 17 May 2005, YN Singh.
117. Fiber optic Communications, IETE Kanpur, February 2,2006. J. John
118. Statistical Fundamentals for Speech Recognition Winter School on Speech Recognition, (IISc., Bangalore), Jan. 2006, S. Umesh.
119. Large Vocabulary Continuous Speech Recognition, International Conference on Natural Language Processing, (IIT, Kanpur), Dec. 2005, S. Umesh.

120. Signals and Systems on Sets: Towards a Non-numerical Theory of Systems: GE Bangalore (John F Welch Centre), Oct 7th, '2005, R. Potluri.
121. Reliable Object Detection: the Basis of Robust Artificial Vision: DA-IICT Gandhinagar., Feb 16th, 2006, R. Potluri.
122. A new approach to electrical parameter extraction in MOS devices with high-K gate dielectrics; 05 July 2005; Department of Electrical and Computer Engineering, National University of Singapore, Singapore, S.Kar..
123. Novel features of and a new parameter extraction technique for high-K MOS devices; 14 October 2005; Department of Electrical and Computer Engineering, University of California, Santa Barbara, California, USA., S. Kar.
124. Delivered a pre-conference tutorial on 15th Dec. 2005 on Electricity Markets: Few Technical Challenges in the National Power Engineering Conference (NPEC 2005 held at Thiagarajar College of Engineering, Madurai, during 16-17 December 2005, S.C. Srivastava.
125. Delivered a tutorial on Transmission System Management in Restructured Electricity Markets in the International Seminar and Tutorial on 'Power Transmission Research Interests and Challenges' held at Central Power Research Institute Bangalore, December 20-22, 2005, SC Srivastava.
126. Delivered an invited lecture on Power System Restructuring at Institute of Engineering, Tribhuvan University, Nepal, January 9th 2006, SC Srivastava.
127. Delivered a key note Lecture on Indian Power Sector: Present Scenario and Challenges in the National Conference on Electric Power Technology, Management and IT Application, MMMEC Gorakhpur, February 17-18, 2006, SC Srivastava.
128. Delivered a key note lecture on Competitive Electricity Markets and Their Secure Operation in the International Conference on Power System Operation in Deregulated Regime (ICPSODR-2006, IT BHU, India, March 6-7, 2006, SC Srivastava.
129. Presented a seminar titled Some Issues on Real-Time Control of Power Electronic Systems using DSP Processors, at Bengal Engineering and Science University, Shibpur, West Bengal on 9.2.2006, P. Sensarma.
130. Inaugural talk on VLSI Processing on 19th Jan., 2006. in the Short course on Introducton to VLSI Design at HBTI, Kanpur, Jan 19-21, 2006, S. S. K Iyer.
131. Lecture on Organic Solar Cells in Short course on Energy Management at MNNIT, Allahabad, March 27-31, 2006, S. S. K Iyer.
132. Design an Information System for Indexing of Rural Development at Block level presented in the 8th Annual Conference of Society of Statistics, Computer and Applications held at the Department of Statistics, Govt.

- Vidarbha Institute of Science & Humanities, Amravati, December 22-24, 2005, Parihar, H.P.S., Srivastava, S., Rai, D.P.
133. Database Design and Development of Information System for Rural Development at District Level presented in the National Seminar on Empowering the Masses through Technology Application & Skill Training held at the Department of Rural Development, National Institute of Technical Teachers' Training and Research, Chandigarh, December 01-02, 2005, Parihar, H.P.S., Srivastava, S., Rai, D.P.
 134. Rural Development: Measurement and developing indices for the development planning at micro levels presented in the National Seminar on New Horizons in Environment and its Derived Problems held at the Govt. Geetanjali Girls P.G. College, Bhopal, February 03-04, 2006, Parihar, H.P.S., Srivastava, S., Rai, D.P.
 135. Major Debates in Human Right Discourse. National Seminar on Human Rights: Indian Scenario. DAV College, Kanpur, 12 December 2005, Munmun Jha.
 136. Sociology and Human Rights Education. Symposium on Sociology in the IITs and IIMs: trends, Prospects and Possibilities. Department of HSS, IIT Bombay, 12-13 November, 2005, Munmun Jha.
 137. The Elderly in a Rights Framework: Beyond Tradition, Law or Economics. National Seminar on Aging: Issues and Emerging Trends. MCM DAV College for Women, Chandigarh, 21-22 October 2005, Munmun Jha.
 138. Moral development and Prosocial Behaviour, Department of Psychology, Allahabad University, Allahabad, March 26, 2006., Krishnan, L.
 139. Urban Land use in India: A Case Study of Urban Development Authorities, Conference on Law, Economics and Development, during March 31- April 1, 2005 at Centre for the Study of Law and Governance, Jawaharlal Nehru University, New Delhi, P.M. Prasad.
 140. Environmental Protection: The Role of Regulatory System in India, International Conference on Environment and Development: Developing Countries Perspectives, during 7-8 April 2005 at School of International Studies, Jawaharlal Nehru University, New Delhi, P. M. Prasad.
 141. Environmental Protection: The Role of Regulatory System in India, The Indian Society for Ecological Economics (INSEE), Conference on Ecology and human Well Being, during 3-4 June, 2005 at Indira Gandhi Research of Development, Mumbai, P.M.Prasad.
 142. Environmental Protection: The Role of Regulatory System in India, The Asian Law and Economic Association (AsLEA), during 24-25 June, 2005 at Seoul National University, Seoul, Korea, P.M. Prasad.

143. Compositionality in Complex Predicates, STIC-Asia Workshop, Kasetsart University, Bangkok, 2006, Achla M Raina and A. Mukerjee.
144. Scope of Community Participation in Rainwater Harvesting, Bharat Vikash Parishad, Ramakrishna Sakha, Kanpur, May 23, 2005, B.Rath.
145. Issues and Challenges in Water Resource Management, Department of Economics, NEHU, Shillong, October 21, 2005, B.Rath.
146. Chairman, Technical Session on Managerial Issues, 11th International Conference on Productivity and Quality Research, IIT Delhi, December 12-15, 2005, B. Rath.
147. Sustainable Development of Land and Water Calls for Application of IWRM Approach, Keynote address in the National Seminar on Sustainable Development of Land Resources: Opportunities and Challenges, Armapore PG Degree College, Kanpur University, January 27-28, 2006, B. Rath.
148. Presentation of the Reports on Rapid Evaluation of ISRHHD and SAY Schemes, Ministry of Rural Development, Department of Rural Development, Krishi Bhavan, New Delhi, 13 May 2004, A.K. Sharma.
149. A lecture on Readings of Epics: Sociological Inferences from Epics and Religion, in Refresher Course on Indian Society: Crisis & Challenges, Organized by Department of Sociology, Lucknow University, Academic Staff College, Lucknow University, Lucknow, 22 December 2005, A.K. Sharma.
150. Presented a paper on Urban Bus Policy to Reduce Air Pollution and Congestion during the 2nd Uttar Pradesh Economic Association (UPEA) Annual Conference held at C.S.A. University of Agriculture & Technology, Kanpur on December 18-19, 2005, S.K. Singh.
151. The Meaning of Cittta Vrittinirodha, National Seminar on/Yogamala: Synthesis of Yoga from Philosophical Perspective, Goa University, Goa, March 10-11, 2006, C.A. Tomy.
152. Significance of HRM in the Times of Downsizing and Restructuring, Ministry of Petroleum Training Centre, Mehmoudabad, Iran, 20th June, 2005, Rahul Varman.
153. Evaluation, Rating and Certification of Web Documents, International conference on Tehnology, Knowledge and Society, organized by Common Grounds, Melbourne, Australia, at Hydarabad, Dec 12-15, 2005, Veena Bansal.
154. Inaugural lecture on Energy Conservation and CDM Opportunities in Indian Industries at Short-term course on Energy Management 27-31 March 2006, MNNIT, Allahabad, Anoop Singh.
155. Regulatory and Policy Environment for Private Investment in the Power Sector: International Comparison EDP on Infrastructure Financing and Public Private Partnership at Indian Institute of Management, Bangalore from Feb. 6-8, 2006, Anoop Singh.

156. Knowledge Sharing and Knowledge Management in Business, July, 9, 2005, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka, Chatterjee, Jayanta.
157. Socio-Technical Research Applications in KM Projects at Indian Plants, July 25-26, 2005, IMI, New Delhi, Chatterjee, Jayanta.
158. Business Process Modeling for Accelerating Technology Development, August 17, 2005, RCI, DRDO, New Delhi, Chatterjee, Jayanta.
159. Information Design Principles and an Ecosystem Approach to Agrovoc Construction in Indian Languages, October, 19-20, 2005, International Experts Group Consultative Seminar, FAO, Rome, Chatterjee, Jayanta and Prabhakar, TV.
160. Poster session on Communities and Collaboration for Knowledge Management at International Conference on Knowledge Management (ICKM 2005, October 27-28, 2005, Charlotte, North Carolina, USA, Chatterjee, Jayanta.
161. Evaluating Business Models for Rural Digital Services and Village Knowledge Centers, Bankers' Institute of Rural Development, Lucknow, January, 13-14, 2006, Chatterjee, Jayanta and Singh, Mura.
162. Developing an Interactive Information Communication Network for Market Operations, Food Corporation of India, Regional Team, Lucknow, April, 6, 2005, Chatterjee, Jayanta and Singh, Murat.
163. Topic Map and Development tools for Agricultural Knowledge Repository Architecture, Mission 2007-Digital Content Task Force Seminar at Indian Science Congress, January, 5, 2006, Chatterjee, Jayanta and Prabhakar, TV.
164. Kheti-an emerging Knowledge Repository Architecture for multiple applications, at eAgriculture Conference, VPIIT, Baramati Maharashtra, March, 10, 2006, organized by Yes Bank and Ministry of Agriculture, Chatterjee Jayanta.
165. Comparative approaches to thesaurus Building Methodologies for Domain Knowledge aggregation ICRISAT, Hyderabad, June 14-15, 2005, Chatterjee, Jayanta, and Prabhakar, TV.
166. ICT Architecture for Integrating Agricultural Productivity Development and Alternative Rural Livelihood Projects at PAN IIT Workshop on 'ICT for Development', March, 26, 2006, Chatterjee, Jayanta.
167. Talk on Business Strategy in a Fast-Changing Environment, Delhi, July 15, 2005, Pearson Education, Sinha AP.
168. Poverty Reduction Strategies in Asia: ADBI Annual Conference 9 December 2005, Tokyo, Japan, Anoop Singh.

169. Regulatory and Policy Reforms in the Indian Power Sector
Nov. 18, 2005, Division of Corporate Planning, Electric Power
System Council of Japan, Tokyo, Anoop Singh.
170. Department of Mathematics, University of Limoges, France, May 27
2005, Dutta J.
171. Lagrange multipliers: Revisited at the Center for optimization and
stochastics , Martin-Luther University, Halle, Germany., seminar title 'Dutta, J.
172. Invited lectures at National seminar on partial differential equations
and scientific computing held at Department of Mathematics, Sixth Gujarat
University, Surat from 23-25, Jan. 2006, Raghavendra, V.(also chaired 2
seminars).
173. Numerical Methods for Singularly perturbed Delay Differential
Equations - Professor S.K. Lakshamana Rao endowment lecture at NIT
Warangal August'2005. Kadalbajoo, M.K.
174. Invited lectures in National Symposium on Scientific Computing with
Application to Partial Differential Equations IIT Kanpur, Nov. 19-21, 2005
Ghorai, S.
175. An overview of FDM for PDEs in National Symposium on Scientific
Computing with Applications to PDEs' at IIT Kanpur, Nov. 19-21'05
Kadalbajoo, M.K.
176. The Derived space of $L^p(G)$.on Feb. 25, 2006 at Department of
Mathematics, University of Jammu. Tewari, U.B.
177. Frechet algebras of power series in the Department of Mathematics,
University of Copenhagen, Denmark on 26th May 2005, Patel, S.R.,
178. Approximation by K-finite functions, ISI Kolkata, June, 2005, Ray, S.K.
179. Rough consequence relations at IMSc, Chennai, July, 2005, Banerjee, M.
180. A new class of stabilized mesh free methods for viscous fluids: Part I.
(ii) A new class of stabilized mesh free methods for viscous fluids: Part II, (iii)
Wavelet Taylor Galerkin method for PDEs. Wavelet -Taylor Galerkin method &
PDEs NUS, Singapore, 24 Oct. 2005, Rathish Kumar, BV
181. Regression Analysis in Agricultural sciences at Agricultural Institute,
Allahabad, India in 2005, Shalabh.
182. Stability problems in applied mechanics, University of Jadavpur,
Kolkata August 11, 2005, (A.K. Mallik).
183. Curious consequences of simple sequences, CMERI, Durgapur,
November 2005, (A.K. Mallik).
184. Dynamic Failure of Functionally Graded Composites Under High
Strain Rates, Central Ceramic and Glass Research Institute, Kolkata, December
12, 2005, (V. Parameswaran).

185. Surface finish enhancement in fused deposition modeling, INVITED TALK, National Conference on Design for Product Life Cycle, BITS Pilani, February 17-18, (N.V. Reddy).
186. Introduction to Generative Manufacturing, GVP College of Engineering, Vishakhapatnam, December 2005, (N.V. Reddy).
187. Structure of Low Reynolds Number Flow Behind a Prism of Square Cross-Section at Various Orientations, Presented at the 50th (Golden Jubilee) ISTAM Congress at IIT Kharagpur, 14-17 December 2005, (K. Muralidhar).
188. Optical Measurement Techniques, (B) Optical Tomography, lectures given at R & D (Engineers), Dighi, Pune, 22nd October 2005, (K. Muralidhar).
189. Optical Imaging and Control of Convection around a Crystal Growing from its Aqueous Solution, Presented at the Symposium entitled Crystal Growth and Characterization, Loyola College, Chennai, 29th September 2005, (K. Muralidhar).
190. Argonne National laboratory, Chicago, USA, 2005, (A.K. Agarwal).
191. College of Military Engineering, Vadodara, 2005, (A.K. Agarwal).
192. Research Designs and Standards Organization, Lucknow, 2006, (A.K. Agarwal).
193. University of Michigan, Dearborn, USA, 2006, (A.K. Agarwal).
194. 4th International Conference on Smart Materials, Structures and Systems, July 2005, (Bishakh Bhattacharya).
195. Opportunities for Interdisciplinary research in Energy Technology, Invited Lecture, National Conference of Electrical and Mechanical Engineering, Guru Ramdas Khalsa Institute of Technology, Jabalpur (MP), March, 2006, (S. Khandekar).
196. Introduction to Fuel Cell Technology: Energy Outlook and Research Directions, National Workshop titled Fuel Cells: Power Device of the Future, IIT Kanpur, Kanpur (UP), February, 2006, (S. Khandekar).
197. Emerging Importance of Microscale Heat Transfer, Invited Lecture, Federal University of Santa Catarina, Florianopolis, Brazil, June, 2005, (S. Khandekar).
198. Analysis and Simulation of Snake-like Robots: An Outline, IGCAR, Kalpakkam, 6 May 2005, (B. Dasgupta).
199. CAD and Optimization in Molecular Docking, TU Berlin, 14 June 2005, (B. Dasgupta).
200. An engineer's guide to multiscale modeling, Workshop on nanoscale modelling, invited tutorial at GE Global Research, Bangalore India, (S. Basu).
201. Modelling of deformation and fracture in glassy amorphous polymers, invited talk at India-European thematic meeting on Computational Materials Science, IISc, Bangalore, India, (S. Basu).

202. 4th International Conference on Smart Materials, Structures and Systems, July 2005, (Bishakh Bhattacharya).
203. On-line monitoring of drilling performance after microwave post sintering, 1st INDO-JAPAN Joint Seminar on Micro/Nano Manufacturing Science, Tokyo Japan, 2006, (J. Ramkumar).
204. Turbulence modeling and their applications, Delivered a series of lectures, Teaching Workshop, Organised by GE, India, Bangalore, 2005, (S. Sarkar).
205. Hybrid nanocomposites of carbon nanotube grown on carbon fiber for structural application, ISRO Satellite Centre, Bangalore, INDIA, 28th October, 2005, (K.K. Kar).
206. Synthesis and characterization of carbon nanotubes on the surface of glass fiber and its composite in epoxy matrix, International Advanced Research Centre for Powder metallurgy and new Materials (ARCI), Hyderabad, India, 16th September 2005, (K.K. Kar).
207. Polymer Rheology and its importance, Defence Materials and Stores Research and Development Establishment (DMSRDE) India, 5th September, 2005, (K.K. Kar).
208. Surface finish enhancement in fused deposition modeling, Invited talk, National Conference on Design for Product Life Cycle, February 17-18, BITS Pilani, (N.V. Reddy).
209. Introduction to Generative Manufacturing, GVP College of Engineering, Vishakhapatnam, December 2005, (N.V. Reddy).
210. Comparison of Corrosion of Phosphoric Irons with Low Alloy/Mild Steels in Select Environments, Annual Technical Meeting of the Indian Institute of Metals, Chennai, 15-16 November 2005, R. Agarwal, G. Sahoo And R. Balasubramaniam.
211. Marvels of Indian Iron through Ages Workshop on History of Science and Technology, Nainital, 9-12 December 2005, R. Balasubramaniam.
212. On the Use of Scanning Electron Microscopy in Numismatic Studies, 89th Meeting of the Numismatic Society of India, Chandigarh, 24-26 December 2005, R. Balasubramaniam.
213. Analysis of Archaeomaterials Seminar on Technology Development for the Study of the Past, Indian Institute of Technology, Kanpur, 18-19 March 2005, R. Balasubramaniam.
214. Massive Forge Welded Iron Cannons of India Seminar on History Of Science and Technology in India, Central University, Hyderabad, 01-03 September 2005, R. Balasubramaniam.
215. Synthesis of nanocementite by Reaction milling in Dual-drive Planetary mill, In the conference International Conference of advanced materials design

- and development (ICAMDD), 14-16 December 2005, Goa, India, D. Chaira, S. Sangal and B. K. Mishra.
216. Synthesis of Silicon Carbide in a Dual-drive Planetary mill by Reaction milling, In the conference National Metallurgists Day (NMD-ATM 2005, 12-14 November 2005, Chennai, India, D. Chaira, B. K. Mishra, and S. Sangal.
 217. Synthesis of Silicon Carbide in a Dual-drive Planetary mill by Reaction milling, In the conference The Society for Mining, Metallurgy, and Exploration (SME) in the special symposium Functional Filler and Nanoscale Minerals II, March 2006, USA, D. Chaira, B. K. Mishra, and S. Sangal.
 218. Characterization of Cenospheres in Fly Ash, International Conference on 'Emerging Trends in Mineral Processing and Extractive Metallurgy' 13 -14th June, 2005, Regional Research Laboratory, Bhubaneswar, India, K. Datta, A. Garg, S. Sangal, B. K. Mishra, Padma Vankar, and P. K. Rohatgi.
 219. 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, A. Garg, X. Hu and Z.H. Barber.
 220. Toxic Metals in Sweet Wraps Chandi Work: A Study using TEM and SEM-EDS, EMSI-2006, Thiruvananthapuram, April 2006, Gouthama and S.C. Barthwal.
 221. A TEM and EBSD Study of the Mechanism of in-situ Grain Refinement during Superplastic Deformation, International seminar on Frontiers on Materials Design Chennai, November, 2005, Gouthama and R. K. Srivastav.
 222. Material Characterization of Copper from Harappan Civilization Site of Dholavira Annual Technical Meeting of the Indian Institute of Metals, Chennai, 15-16 November 2005, S. Gupta, R. Balasubramaniam, A.S. Bisht, V.N. Prabhakar and K.C. Nauriyal.
 223. Deposition and Characterisation of bismuth-layered perovskite ferroelectric thin films, Oral Presentation in UK Ferroelectric Materials Network, Annual Conference, Cranfield (UK), 14-15 June 2005, X. Hu, A. Garg, Zoe H. Barber, James F. Scott, A. Snedden and P. Lightfoot.
 224. Deposition and Characterization of Pulsed-Laser-Deposited and Chemical-Solution-Derived Sm-Substituted Bismuth Titanate Films, International Symposium on Integrated Ferroelectrics, Shanghai, 17-20th April 2005, China, X. Hu, A. Garg, Zoe H. Barber.
 225. Pulsed laser deposition and characterization of (BiFeO₃)_{0.7}-(PbTiO₃)_{0.3} thin films, Electron Microscopy and Analysis Group and the Nanoscale Physics and Technology Group Conference, 31 August- 2 September 2005, University of Leeds, M A Khan, A Garg, and A J Bell.

226. Effect of Deposition Pressure on Structure of Pulsed Laser Ablated $(\text{BiFeO}_3)_x (\text{PbTiO}_3)_{1-x}$ Thin Films, MRF Fall Meeting, Boston (USA), Nov 2005, M A Khan, A Garg, T. Comyn, and A J Bell.
227. Artificial neural nets, genetic algorithms and multiple linear regression as complementary modeling techniques in oxygen steelmaking, Int. Conf. on Neural Network and Genetic Algorithm in Materials Science and Engineering, Jan. 11-13, 2006, Ed. BESU, Shibpur, India, S. Kumar and B. Deo.
228. Annual Technical Meeting (Organized by Indian Institute of Metals), Chennai, 15-16 Nov 2005, S. Kumar and A. Garg.
229. Some shop floor problems in steel plants and their solution through Process Engineering, 59th Annual technical Meeting of I.I.M, Chennai, 2005, D. Mazumdar.
230. Prediction and control of superheat during continuous casting of Steel, International conference on past, present and future of continuous casting of steel, Jamshedpur, 2005, D. Mazumdar.
231. Detailed X-ray Diffraction Analysis of the PLD Grown $(\text{BiFeO}_3)_x (\text{PbTiO}_3)_{1-x}$ Thin Films, Annual Technical Meeting (Organized by Indian Institute of Metals) Chennai, 15-16 Nov 2005, P. Mittal, M. Khan, A. Garg, and A.J. Bell.
232. Corrosion Related Issues in Indian Railways, Annual Technical Meeting of the Indian Institute of Metals, Chennai, 15-16 November 2005, B. Panda, R. Balasubramaniam And A.K. Manuwal.
233. Processing and Characterization of Iron-Copper Nano-crystalline Material Synthesized by Mechanical Alloying, National conference of IIM-ATM, Chennai, November, 2005, S.K. Reddy, A. Ramaria, Gouthama and R. K. Dube.
234. International Conference on Advances in Materials Design and Development, Goa (India), 14-16 Dec 2005, P. Prakash, M.K. Roy, H.C. Verma and A. Garg.
235. International Conference on Advances in Materials Design and Development, Goa (India), 14-16 Dec 2005; Won Best Poster Award, Umesh Prasad, Sumeet Kumar and Ashish Garg.
236. Annual Technical Meeting (Organized by Indian Institute of Metals), Chennai, 15-16 Nov 2005, M.Kumar Roy, P.Prakash, A.Garg and H.C. Verma.
237. Corrosion of Rare Earth-Iron Alloys and Compounds, Annual Technical Meeting of the Indian Institute of Metals, Chennai, 15-16 November 2005, D.Sachdeva And R. Balasubramaniam.
238. Metallography and Phase Transformations of Iron-Phosphorus Alloys, Annual Technical Meeting of the Indian Institute of Metals, Chennai, 15-16 November 2005, G. Sahoo, R. Balasubramaniam and M.N. Mungole.

239. Annual Technical Meeting (Organized by Indian Institute of Metals), Chennai, 15-16 Nov 2005, A.Sharan, A.Garg, D.Gupta and S.Kumar.
240. International Conference on Advances in Materials Design and Development, Goa (India), 14-16 Dec 2005, A. Sharan, D. Gupta, S. Kumar and A. Garg.
241. Analysis of Iron Slags from Kamrej, Annual Technical Meeting of the Indian Institute of Metals, Chennai, 15-16 November 2005, Tanushree and R. Balasubramaniam.
242. A TEM Study on the GB Cavity Nucleation in a High Temperature Tested Al-5083 Alloy, National conference of IIM-ATM, Chennai, November, 2005, R. K. Srivastav and Goutham.
243. Characterization of Atmospheric Rust on Rail Steels, Annual Technical Meeting of the Indian Institute of Metals, Chennai, 15-16 November 2005, A.C. Vajpei, B. Panda, R. Balasubramaniam and A.K. Manuwal.
244. Microstructural Evolution of Thermo-mechanically processed Near- α Ti Alloy, EMSI-2006, Thiruvananthapuram, April 2006, A. Sundar Vishal, Gouthama, and S. Bhargava.
245. Investigation into Electrophoretic Deposition of Phosphors, Annual Technical Meeting (Organized by Indian Institute of Metals), Chennai, 15-16 Nov 2005, C.K. Yadav, D. Chaira, A. Garg and B.K. Mishra.
246. Electromagnetic sources of THz radiation: toward efficient generation and control, Indo-French workshop on free electron lasers and their applications, Goa, March 20-24, 2006, Sudeep Bhattacharjee.
247. Intense microwave plasmas for focused ion beams, Condensed Matter Physics Workshop (CMPW-06, IIT Kanpur, February 17-19, 2006, Sudeep Bhattacharjee.
248. Closed String Tachyons on Orbifolds of C2 and C3, Ohio State University, May 27th, 2005, T. Sarkar.
249. Closed String Tachyons on Orbifolds of C2 and C3, California Institute of Technology (Caltech), June 3rd, 2005, T. Sarkar.
250. Einstein and the Theory of Relativity, Colloquium at University of Lethbridge, Alberta, Canada, June 16th, 2005, T. Sarkar.
251. Traffic: from molecules to vehicles, Max-Planck Institute for Coolids and Interface Research, Potsdam (Germany), 13 October, 2005, D. Chowdhury.
252. Lectures delivered in: 'A Short-term Course on Developments & Applications of All Solid State Lasers' January 09-14, 2005, Topic: 'Introduction to Lasers', H. Wanare.
253. Causality Violation in Non-local QFT, 100 Years After Einstein's Revolution : A National conference to celebrate the world Year of Physics 2005, IIT Kanpur 4-6 Nov. 2005, S.D.Joglekar.

254. Interlayer exchange coupling in Fe/Nb magnetic multilayers, Banaras Hindu University, March 31, 2006, R. Prasad.
255. Recent Developments in Rayleigh Benard Convection, National Conference on Nonlinear systems and Dynamics-2006, Chennai, March 2006, M. K. Verma.
256. Dynamo Using Turbulent Energy Fluxes, in International Solar Workshop on Transient Phenomena on the Sun and Interplanetary Medium, Nainital, April 2005, M. K. Verma.
257. Dynamo Using energy Fluxes, in Nonlinear Cosmology: Turbulence and Fields, held at ICTP in 9 May-12 May, 2005, M. K. Verma.
258. Universal Scaling Laws for Driven-Non-equilibrium Systems, in Bharatidasan University, Trichy, and IIT Kanpur, March 2006, M. K. Verma.
259. Low dimensional Models of convective Flows, in ICTP, Trieste, June 2005, M. K. Verma.
260. Statistical Theory of MHD Turbulence-A Review, in ENS, Paris, June 2005, M. K. Verma.
261. Colloquium on Sub-wavelength optics via plasmons on a metal surface, Raman Research Institute, Bangalore, 21 July 2005, S. A. Ramakrishna.
262. Seminar on Negative refractive Index: A revolution in Optics Inter-University Accelerator Centre, New Delhi, 28 March 2005, S. A. Ramakrishna.
263. Entanglement in Spin Systems, BHU, Varanasi, I March 2006, V Subrahmanyam.
264. Spin Decoherence in Quantum Dots In the conference Quantum Computation Back Action 2006, V Subrahmanyam.

CONFERENCES ATTENDED OUTSIDE IIT KANPUR

1. Convention for Aeronautical Engineer-2006, Institution of Engineers, Jaipur-Chapter, Jaipur, A. K. Ghosh.
2. WINDPOWER 2005 Conference & Exhibition of American Wind Energy Association, Denver, Colorado, USA, May 15 - 18, 2005. (PRESENTED A CONTRIBUTED PAPER), Kunal Ghosh.
3. 29TH Indian Social Science Congress, Lucknow, Dec. 25 - 30, 2005. (PRESENTED A CONTRIBUTED PAPER) , Kunal Ghosh.
4. ISS International Conference on Smart Materials, Structures and Systems, 28-30 July 2005, Bangalore, Contributed papers, A. Kushari.
5. 19th National Conference on IC Engine and Combustion, Allied Publisher p. 357-361, 2005, D. P. Mishra.

6. 18th National & 7th ISHMT/ASME Heat and Mass, January 2006, D. P. Mishra.
7. International Conference on Computational and Experimental Engineering and Sciences (ICCES'05, December 1-6, IIT Madras, Chennai, 2005, S.Mittal.
8. Indo-German Winter Academy, Tata Steel, Jamshedpur, December , 2005, S.Mittal.
9. National Symposium on Scientific Computing with Application to Partial Differential Equations (NSSCAPDE 05, Indian Institute of Technology Kanpur, November 19-21, 2005, S.Mittal.
10. 4th Conference on Bluff Body Wakes and Vortex-Induced Vibrations-BB-VIV4, 21-24, June, Santorini Island, Greece 2005, S.Mittal
11. 11-th International Workshop on Rotorcraft Dynamics and Aeroelasticity, Florida, USA, Oct. 2005, Venkatesan, C.
12. Invited Talk: International Conference on Computational and Experimental Engineering and Sciences, IIT Madras, India, Dec. 2005., Venkatesan, C.
13. GTPases carrying hydrophobic amino acid substitutions in lieu of the catalytic glutamine have Novel Implications for GTP Hydrolysis. 6th European Symposium of the Protein Society. Barcelona, Spain, 2005, Balaji Prakash.
14. Invited talk delivered in the Indo-Brazil-South Africa Trilateral Workshop on Functional Genomics, Life Science, GM Food and Agriculture, organized by the Institute of Genomics and Integrative Biology, New Delhi (July 18-19, 2005, Ganesh S.
15. Invited talk delivered in the 74th AGBM of the Society of Biological Chemists (India), organized by the Central Drug Research Institute, Lucknow (November 7-10, 2005, Ganesh S.
16. Invited talk delivered in the XXIX All India Cell Biology Conference and Symposium, organized by the Industrial Toxicology Research Institute, Lucknow, January 18-20, 2006, Ganesh S.
17. Invited talk in the Molecular Graphics and Modelling Society meeting on Membranes and membrane proteins held at St. Catherine's College, University of Oxford, U.K. from April 4th to April 6th, 2005, R. Sankararamakrishnan.
18. Invited talk Organ size regulation in Drosophila: The Fat tumor suppressor represses Wnt signaling to regulate cell proliferation and cell adhesion at University of North Carolina, 4th April 2005, Pradip Sinha.

19. Invited presentation in the Indo-Brazil-South Africa Trilateral Workshop on Functional Genomics, Life Science, GM Food and Agriculture organized by Institute of Genomics & Integrative Biology, New Delhi from July 17th to July 19th 2005, R. Sankararamakrishnan.
20. Development of Nano-Biomaterials for Tissue Engineering Applications, January 19-21, 2005, Indo-Australian Conference on Biomaterials, Implantable Devices and Tissue Engineering (BITE 2005 at Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram, India, Invited presentation by Dhirendra S. Katti
21. Chaired a session on Biomaterials and the session on Paper presentation at the Second International Workshop on Nanotechnology and Health Care, at the School of Chemical and Biotechnology, Shanmuga Arts, Science, Technology and Research Academy (SASTRA), Tanjavur, Tamil Nadu, India, May 23-24, 2005, Dhirendra S. Katti.
22. Engineering Tissues: The Stem Cell Approach. Poster presented at the International Symposium on Stem Cells: Premises & Promises for Research & Therapeutics, Mumbai, India, 2005, Pawan B. Singh, Dhirendra S. Katti.
23. Proposed Methods for Allignment of Electrospun Nanofibers to be used as Scaffolds in Tissue Engineering. Poster presented at the SCHEMCON 2005 (1st Annual Session of Students Chemical Engineering Congress), 7th - 9th, December 2005, IIT - Guwahati, India. This paper was awarded the first prize in the poster presentation category and was adjudged the best overall presentation amongst all oral and poster presentations at SCHEMCON 2005, Riju Mohan Singhal, Amit Nandan, Dhirendra S. Katti.
24. 12. CRYOGELS: Superporous gels with interesting properties for bioseparations. European Federation of Biotechnology-Meeting of the working group downstream processing, Technical University of Denmark, Copenhagen, DENMARK. 25th -26thAugust, 2005 (invited presentation), 2005, Ashok Kumar.
25. Selective separation of cells: Supermacroporous monolithic cryogel provide a new tool. AFFINITY2005 - 16th Biannual meeting of the International Society for Molecular Recognition (ISMR), Uppsala, SWEDEN. 14th - 18th August, 2005 (contributed presentation), Ashok Kumar.
26. Novel functional polymeric materials for Bioseparation and Bioprocessing. National Seminar on Nanobiotechnology, National Botanical Research Institute, Lucknow, INDIA, 18th-19th November, 2005 (chairing session & key note presentation), 2005, Ashok Kumar.
27. Regulation of cell adhesion and organ size by the Fat atypical cadherin of Drosophila. 46th Annual Drosophila Research Conference, Town & Country

- Resort & Convention Centre, San Diego, California, USA. 30th March to 3rd April'2005, Pradip Sinha, Jaiswal M, Agrawal N.
28. A genetic screen to identify the targets of puf-8, a Puf family gene involved in the meiotic progression of *C. elegans* spermatocytes. Annual meeting of the Society for Developmental Biology, San Francisco, California, USA. July 27 - August 1, 2005, Subramaniam K and Mohd Ariz.
 29. Germ cell development: PUF-8 keeps the sperms committed. Annual meeting of the Indian Society of Developmental Biology, Kalyani, November 23-25, 2005, Subramaniam K.
 30. Multiple mechanisms Restrict expression of the *C. elegans* Nanos homology Nos-2 to the primordial germ cells. Annual meeting of the Indian Society of Cell Biology, Lucknow, January 17-20, 2006, Jadhav S, Rana M and Subramaniam K.
 31. A large and highly divergent aquaporin family in rice: Identification and homology modeling studies. Membranes and Membrane Proteins Conference organized by the Molecular Graphics and Modelling Society at St. Catherine's College, University of Oxford. 4th to 6th April 2005, Anjali Bansal and R. Sankararamakrishnan.
 32. Neurocytoskeletal Features in Lafora Disease Null Mutant Mice. Proceedings of the 26th International Epilepsy Congress Paris, France, August 28th September 1st 2005. Published in *Epilepsia*, 46, Suppl. 6: 75, 2005, Machado-Salas1 J, Guevara P, Guevara J, Martínez I, Durón R, Bai D, Ganesh S, Yamakawa K, Suzuki T, Amano K, Cornford E, Delgado-Escueta A.V.
 33. Clinical, Genetic and Allelic Heterogeneity in Lafora's progressive myoclonus epilepsy. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, S. Ganesh.
 34. Multiple mechanisms restrict expression of the *Caenorhabditis elegans* nanoshomolog nos-2 to the primordial germ cells. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, K. Subramaniam.
 35. Locus and Allelic heterogeneity in lafora's progressive myoclonusepilepsy: novel mutations in EPM2A and NHLRC1 Genes and genotype-phenotype correlations. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Shweta Singh, P. Satishchandra, SK Shankar, K. Yamakawa, AV Delgado-Escueta, and S. Ganesh.
 36. Unraveling the molecular pathways behind the formation of neuronal inclusion in lafora disease. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Rajat Puri and S. Ganesh.

37. Proteasomal dysfunction in neurological conditions: Functional characterization of malin, an ubiquitin ligase, defective in Lafora disease. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Shuchi Mittal, D. Dubey, and S. Ganesh.
38. Defining genetic risk factors for stroke: Synergistic effect of gene polymorphism. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Veena Gupta and S. Ganesh.
39. The EPM2A Gene defects in Lafora's progressive myoclonus epilepsy: correlations between differential splicing and disease phenotype. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Deepti Dubey, S. Singh and S. Ganesh.
40. Unraveling the molecular mechanism of amyotrophic lateral sclerosis by the development of transgenic *C.elegans* model. 2006. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Upasana Arya, K. Subramaniam, and JR Subramaniam.
41. Microarray profiling of *Drosophila* tumors- a case study with fat 2006. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Amit Sinha and P. Sinha.
42. Dissection of molecular mechanism of the *C. elegans* germ cell regulatory Nos-2. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Sonal Gupta and K. Subramaniam.
43. Identification of in-vivo mRNA targets of PUF-8, A Puf repeat-containing protein required for *C. elegans* germ cell development. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Mainpal Rana and K. Subramaniam.
44. Maternal RNA-binding protein SPN-4 suppresses the somatic expression of *C. elegans* germ cell regulator Nos-2. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Shreyas Jadhav, Mainpal Rana and K. Subramaniam.
45. Developmental regulation of cell shapes in the distal tip of *drosophila* leg. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Mohammad Atif Alam, M. Jaiswal and P. Sinha.
46. Clonal initiation of tumors in *Drosophila*: A search for the pathway to tumor development induced by loss of *Igl* tumor suppressor. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Sumbul Jawed Khan and P. Sinha.
47. Signaling input for the regulation of cell-cell adhesion in *Drosophila*. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, Manish Jaiswal and P. Sinha.

48. Invited talk in National Symposium on Chemical Engineering - The Journey Ahead, IISc, Bangalore, June, 2005, Rajdip Bandyopadhyaya.
49. Workshop on SAXS for Nanotechnology, IIT Bombay, July, 2005, Rajdip Bandyopadhyaya.
50. Nanomaterials for Spacecraft Structural and Thermal Applications, participation in discussion and technical sessions, ISRO Satellite Centre, Bangalore, October, 2005, Rajdip Bandyopadhyaya.
51. Panelist and session chair (for the session: Fundamentals and Overall Opportunities) in the Nanoparticle Aerosol Science and Technology workshop, held jointly between Indian and US scientists in Bombay, December, 2005. Participated and conducted panel discussions and compiled research recommendations from this workshop, Rajdip Bandyopadhyaya.
52. Speaker for contributed paper and session chair (for the session: Material Synthesis and Nanoparticle Technology) in 4-th Asian Aerosol Conference, Bombay, December 2005, Rajdip Bandyopadhyaya.
53. Speaker for contributed paper in IIT-National Univ. of Singapore joint session in Chemical Engg. Congress (CHEMCON), New Delhi, December, 2005, Rajdip Bandyopadhyaya.
54. Tuning the Inverse Activity-Selectivity Relationship over Supported Vanadium Oxide Catalysts: Propane ODH Reaction, 5th World Congress on Oxidation Catalysis, Sapporo, Japan, Sept - 2005, G. Deo, T.V.M. Rao and D. Shee.
55. The effect of modifiers on supported V_2O_5/Al_2O_3 catalysts: Methanol Oxidation and Propane ODH, 19th North American Meeting of the Catalysis Society, Philadelphia, May-2005, B. Mitra, I.E. Wachs and G. Deo.
56. Kinetic parameter estimation for supported vanadium oxide catalysts for the propane ODH reaction: Understanding the effect of loading and support, 5th International Conference on Group 5 Elements, Hancock, MA, USA, May-2005, D. Shee, T.V.M. Rao and G. Deo.
57. Session Co-Chair for the session on Acid Catalysis during CHECOM 2005, IIT Delhi, December, 2005, G. Deo.
58. Session Chairman during the 5th International Symposium on Group Five Elements, Hancock, MA, USA (May 18-21, 2005, G. Deo.
59. Temperature based control of a methyl acetate reactive distillation column, Presented at ChemCon, Dec 2005, New Delhi, India, MVP Kumar and N Kaistha.
60. A simple algorithm for rigorous multicomponent distillation design and rating, ChemCon, Dec 2005, New Delhi, G Kedia, S Gedam, DP Rao and N Kaistha.

61. Binary Vapor Liquid Equilibria Prediction using Quantum Mechanical Calculations, CHEMCON 2005: 58th Annual Session of the Indian Institute of Chemical Engineers, IIT Delhi, New Delhi, India, December 14-17, 2005, Tamal Banerjee, Ashok Khanna.
62. Jordan International Chemical Engineering Conference - V, Amman, Jordan, September 12-15, 2005. Paper presented, J.P. Gupta.
63. International Conference on Toxicology, Environmental & Occupational Health, I.T.R.C., Lucknow, November 14-17, 2005. Session Chair, J.P. Gupta.
64. Japan Society of Safety Engineers, Annual Meeting, Okayama University, Okayama, Japan, November 24-25, 2005: Invited Plenary Lecture, J.P. Gupta.
65. Industry- Academia Interaction, Petrotech Symposium, New Delhi, September 2005 (chaired a session), D. Kunzru.
66. Chemcon-2005, IIChe Annual Meeting, New Delhi, December 2005 (chaired a session), D. Kunzru.
67. International Conference on Structured Catalysts and Reactors, Delft, Netherlands, October 2005, D. Kunzru.
68. Of small things and other stories, National Symposium on Chemical Engineering: Journey Ahead, IISc, Bangalore, June 20-21, 2005, A. Sharma.
69. Self-organized patterning of soft materials, JSPS-DST Symposium on Surfaces and Interfaces for Nanostructured Materials, University of Tokyo, November 2005, A. Sharma.
70. Self-organized patterning of soft materials, UK-India Workshop on Nanotechnology, Cambridge University, October 2005, A. Sharma.
71. Paradigms of Meso-Fabrication: Beyond the Top-down and Bottom-up National Frontiers of Engineering Conference, New Delhi, February 2006, A. Sharma.
72. Self-organized Nano-fabrication, Indo-US Nanotechnology Conclave, New Delhi, February 2006, A. Sharma.
73. Physics of Self-organized patterning of soft materials, Condensed matter Physics Workshop, IIT Kanpur, February 2006, A. Sharma.
74. Paradigms of Meso-Fabrication: Beyond the Top-down and Bottom-up, Indo-US Frontiers of Engineering Conference, Agra, March 2006, A. Sharma.
75. Elastic Contact Lithography: A New Method for Self-organized Patterning of Soft Solids, International Conference on Nanoscience and Technology (ICONSAT), New Delhi, March 2006, A. Sharma.
76. Elastic Contact Lithography, The 2nd India-Taiwan Workshop on Nanoscience, New Delhi, March 2006, A. Sharma.

77. Patterning of soft materials, Indo-UK Workshop on Nanotechnology, New Delhi, March 2006, A. Sharma.
78. MTIC XI, IIT Delhi, Dec. 8 - 10, 2005, presented a poster. (Preparation of Carbene adducts of Transition Metal Carboxylates G. Anantharaman*, K. Elango, and R. Srirambalaji).
79. Interaction of the M-M Bond Orbitals with C-H Bond: Route to Agostic and Cyclometallated Compounds : Presented at the 11th symposium on Modern Trends in Inorganic Chemistry as a invited speaker at IIT Delhi, December 8-10, 2005, Jitendra K. Bera.
80. Self-Assembled Metallomacrocycles Based on 1,1'- bis(1,8-naphthyrid-2-yl)ferrocene (FcNP₂) Ligand : Presented poster at the 6th CRSI National Symposium in Chemistry at IIT Bombay, 3-5 February 2006, Jitendra K. Bera.
81. Annual Meeting of Indian Academy of Sciences, held at Tiruchirapalli in November 2005 A. Chandra.
82. CRSI National Symposium of Chemistry, held at IIT Bombay during February 3-5, 2006, A. Chandra
83. Indo-EU Meeting on Computational Materials Science, held at Indian Institute of Science, Bangalore, February 20-22, 2006, A. Chandra.
84. Spectroscopy and dynamics of molecules and clusters, held in Goa, March 30-31, 2006, A. Chandra.
85. National Seminar on Applied Research on Solid State Chemistry and Nanotechnology (NSASN - 2005, Department of Chemistry, Annamalai University, India, February 25 - 26, 2005, Keynote Address : The Fascinating World of Materials and the Role of Solid State Chemistry, N.S. Gajbhiye.
86. National Symposium on Advances in Material Science, Department of Physics, D. D. U. Gorakhpur, March 17 - 19, 2005, Invited Lecture and contributed paper; 'Magnetic properties of Iron Nitrides' N.S.Gajbhiye
87. National Conference & Symposium on Solid State Chemistry and Allied Areas, ISCAS 2005, 1-3 December 2005, Goa; Oral Presentation, 'Dielectric Behaviour of Chemically Synthesized Nanostructured PZT Powders'; N. S. Gajbhiye, P. K. Pandey, Lyci George and Abhishek Kumar, N.S. Gajbhiye
88. National Conference & Symposium on Solid State Chemistry and Allied Areas, ISCAS 2005, 1-3 December 2005, Goa; Oral Presentation; 'Liquid phase synthesis of Nickel Nanoparticles'; N. S. Gajbhiye, and Sachil Sharma, N.S. Gajbhiye.
89. DAE-Solid State Physics Symposium 2005, BARC, Mumbai, 5-9 Dec 2005. Oral Presentation; 'Studies on Homogeneous Lead Zirconate Titanate

- Powder Synthesized by Hydroxide Co-precipitation'; N. S. Gajbhiye, P. K. Pandey, Lyci George and Abhishek Kumar, N.S. Gajbhiye.
90. 24th Annual Conf. Indian Council of Chemists, BIT Mesra, Ranchi, 16-18 December 2005; Invited Lecture 'Magnetic Interactions study of ϵ -Fe₃N-GaN Core Shell Nanocomposites /Nanowires', N. S. Gajbhiye and Sayan Bhattacharya.
 91. Thermans 2006, 6-10 Feb 2006, Jaipur, Oral Presentation 'Thermal, Structural and Electrical Studies of Nanostructured PZT Synthesized by Low Temperature Technique'; N. S. Gajbhiye, G. Wilde, P. K. Pandey, Lyci George and Abhishek Kumar
 92. Int. Conf. on Nanoscience and Technology 2006, 16-18 March, New Delhi; Poster Presentation 'Characterization of Nanostructured PZT Prepared by Chemical Routes'; N. S. Gajbhiye, P. K. Pandey, Lyci George and Abhishek Kumar.
 93. Int. Conf. on Nanoscience and Technology 2006, 16-18 March, New Delhi; Oral Presentation, 'Synthesis, Characterization and Magnetic Interactions Study of ϵ -Fe₃N-CrN Nanorods'; N. S. Gajbhiye, Sayan Bhattacharyya, S. M. Shivaprasad and J. Weissmüller.
 94. Participated in the XIth NOST Symposium held during October 25-29, 2005 at Goa, Manas K. Ghorai.
 95. Participated in the third conference in India by Innocentive titled 'InnoCentive Innovation Series: Value Addition to Natural Products.' at the National Institute for Pharmaceutical Education and Research (NIPER), Chandigarh, Punjab on Saturday, March 4, 2006, Manas K. Ghorai.
 96. 2nd International Conference on Current Developments in Atomic, Molecular and Optical Physics with Applications(CDAMOP), K.M.College, Delhi University, India, March 21-23 2006 – Debabrata Goswami, Invited Speaker & Session Chair.
 97. Topical Conference on Atomic, Molecular and Optical Physics (TC-2005, IACS, Kolkata, India, Dec. 13-15 2005 – Debabrata Goswami, Invited Speaker.
 98. Brijuni Conference on Laser Control and Molecular Switches, Brijuni Islands, Croatia, Aug. 28 - Sept. 2 2005 – Debabrata Goswami, Invited Speaker.
 99. Fourth Singapore-India Collaborative and Cooperative Chemistry Symposium (SInCCCS₄), National University of Singapore, Singapore, Feb.20-21 2006 – Debabrata Goswami, Invited Speaker.
 100. Differential Geometry and Topology in the Perspective of Modern Trends (DGTPMT-2006, Dayalbagh Educational Institute, Agra, India, Feb. 18-19 2006 – Debabrata Goswami, Plenary Speaker.

101. Modern Trends in Inorganic Chemistry MTIC XI: IIT Delhi: Dec 2005:Delivered an invited lecture, B.D. Gupta.
102. National Symposium on New challenges in Chemistry: GNDU, Amritsar: March 2006 ,Delivered an invited lecture, B.D. Gupta
103. The Singapore international chemistry conference December 6-8, 2005, National Univesity of Singapore, Singapore. Presented an invited lecture on Lewis acid catalyzed vinylogous condensation., R. Gurunath.
104. Symposium on Structure and Dynamics, IIT Madras, Chennai April 22, 2005 (Invited talk), N. Sathyamurthy.
105. Recent Advances in Nanoscience and Technology, Periyar University, Salem Sep. 29, 2005 (Inaugural address), N. Sathyamurthy.
106. Humboldt Kolleg, Banaras Hindu University, Varanasi November 28-30, 2005 (invited talk), N. Sathyamurthy.
107. Recent Trends in Fluorescence Spectroscopy and its Applications, Kumaun University, Nainital Dec. 1-3, 2005 (invited talk), N. Sathyamurthy.
108. National Symposium on Spectroscopy and its applications, Indian Association for the Cultivation of Science, Kolkata, January 18-20, 2006 (Inaugural address), N. Sathyamurthy.
109. Spectroscopy and dynamics of molecules and clusters, International Center, Goa, April 2006 K. Srihari
110. National conference on nonlinear systems and dynamics, Ramanujan Institute of Mathematical Sciences, Chennai, February 2006, K. Srihari.
111. East Midlands Mathematical Physics workshop on Molecules in Motion, School of Mathematical Sciences, University of Nottingham, June 2005, K. Srihari.
112. Invited lecture at National Symposium on Organic Synthesis: New Dimensions, BHU, Varanasi (March 6-7, 2005, F.A. Khan.
113. Presented a poster at Gordon Research Conference on Free Radical Reactions-2005, Holderness School, Plymouth, NH, USA, July 3-8, 2005, F.A. Khan.
114. Invited lecture at International Symposium in Organic Chemistry - 2006 (INSOC-2006, organized by School of Chemical Sciences, Mahatma Gandhi University, Kottayam. 9-11th January 2006, F.A. Khan
115. Invited lecture at Building Bridges, Forging Bonds for 21st Century Organic Chemistry and Chemical Biology (OCCB-2006: 6-9 January, 2006 at NCL pune and 11-12 January, 2006 at IICT Hyderabad, F.A. Khan

116. Control of Photoreactivity of o-Alkylaromatic Aldehydes in the Solid State, Invited Talk Gordon research Conference on Organic Photochemistry, Smithfield, Rhod Islands, USA, 13th July, 2005, J.N. Moorthy.
117. Organic Molecular Photoreactivity and Molecular Association IFCOS meeting, Indian Institute of Chemical Technology, Hyderabad, 23rd October, 2005, J.N. Moorthy.
118. Control of Molecular Reactivity and Molecular Association Invited Talk National Organic Symposium Trust (NOST) Meeting, Goa, 29th Oct., 2005, J.N. Moorthy.
119. 12th Internaitonal conference on Biological Inorganic Chemistry, July 31 - August 5, 2005, University of Michigan, Ann Arbor, USA. Attended (my Ph D student Akhilesh K. Singh presented our contributed paper), R.N. Mukherjee.
120. Invited Talk in the National Symposium on Modern Trends in Inorganic Chemistry (MTIC-XI) held on IIT Delhi from Dec. 8-10, 2005, S.P. Rath.
121. Singapore International Chemical Conference - 4 (December 8-10, 2005, S.V. Verma.
122. CRSI-RSC-EPSC Workshop, IIT Bombay (February 2, 2006, S. Verma.
123. 8th National Chemistry Symposium, IIT-Bombay (February 3-5, 2006, S. Verma.
124. Delivered a lecture at a National Organic Symposium Trust symposium at Goa, India 25-29 October 2005 Title: Conjugated Nitro Sugars in the Synthesis of Biologically Important Molecules, Y.D. Vankar.
125. Delivered a plenary lecture at XX Carbohydrate Conference, Lucknow
126. University 24-26th November 2005 Ttile: Newer Synthetic Approaches towards Glycosidase Inhibitors and Glycosamino Acids using Chemistry of Nitroaliphatics, Y.D. Vankar.
127. Delivered a lecture at Indo-Singapore Symposium held at Singapore (February 20-21, 2006 Synthetic Endeavors Towards Glycosidase Inhibitors and Glycosamino Acids, Y.D. Vankar.
128. ICT, Hyderabad, October 2005, V.K. Yadav
129. NOST, Goa, October 2005, V.K. Yadav.
130. Bioremediation of BTEX contaminated groundwater. Proceedings National Workshop on sustainable Pollution control, held at IET, Lucknow. Dec. 2005, Poonam Singh and Leela Iyengar.
131. Azo dye decolourization and degradation by microorganisms. Proceedings National Workshop on sustainable Pollution control, held at IET, Lucknow. Dec. 2005, Leela Iyengar.

132. Anoxic bacterial decolourization of Acid Orange 7. Proceedings National Workshop on Environmental Biotechnology, Biological perspective: Issues and Challenges, held at Mumbai University, Mumbai. Feb. 2006, Taruna Joshi, Anjali Pandey and Leela Iyengar.
133. Attended as one of the collaborators, representing India in a multination research scheme on : Optimization Strategies for the Management of Change in Coastal Zone and Inland Waters Caused by Salinity Intrusion, Funded by Asia Pacific Network (APN), held in SriLanka, October, 2005, Datta, Bithin.
134. National Symposium on Structural Dynamics, Random Vibrations & Earthquake Engineering (NSSD-2005, Bangalore; July 21-22, 2005, Gupta, Vinay Kumar.
135. Presented an Invited Paper and Chaired a Technical Session, International Conference on Advances in Structural Dynamics and its Applications (ICASDA-2005, Visakhapatnam; December 7-9, 2005, Presented a Keynote Lecture and Chaired a Technical Session, Gupta, Vinay Kumar.
136. 2nd Indian International Conference on Artificial Intelligence (IICAI2005, December 20-22, 2005, Pune, INDIA, presented two contributed papers, Jain Ashu.
137. American Geophysical Union (AGU)'s Fall Meeting 2005, December 5-9, 2005, San Francisco, California, USA, presented two contributed papers, Jain Ashu.
138. Department of Science & Technology (DST)'s brainstorming seminar on Continental Tropical Convergence Zone (CTCZ), Indian Climate Research Programme, 28-30 June 2005, Birla Institute of Technology, Mesra, Ranchi, India, Jain Ashu.
139. One-day brainstorming session of the UNESCO's International Hydrological Programme - Phase VII, May 20, 2005, Indian Institute of Science, Bangalore, India, Jain Ashu..
140. Attended Global IIT Alumni Conference, Bethesda, USA, May 20 to May 22, 2005, Jain, S.K.
141. Attended International Conference on 8 October 2005 Earthquake in Pakistan: Its Implications and Hazard Mitigation, Islamabad, January 18-19, 2006, Jain, S.K.,
142. Attended Earthquake Summit Beijing, China, during February 20 - 22, 2006, Jain, S.K.
143. First Indo-US Frontiers of Engineering Symposium, 2-4 March 2006, Agra; Session Co-Chairman, Natural Disaster Simulation and Mitigation, Murty, C.V.R.

144. Presented paper in the Conference on Geo Congress, Atlanta, USA, Feb 28 2006- March 1 2006, Patra, N.R.
145. 3rd M.I.T. Conference on Computational Fluid and Solid Mechanics, M.I.T., Cambridge, MA, USA, June 2005, Paper presentation, Prashant A.
146. International Conference on Computational & Experimental Engineering and Sciences, Chennai, India, Dec 2005, Paper presentation, Prashant A.
147. First National Frontiers of Engineering Symposium, New Delhi, February 3-5, 2006, Invited speaker on experiemntal earthquake engineering, Rai, D.C.
148. First Indo-US Frontiers of Engineering Symposium, Agra, March 1-4, 2006, invited speaker on experiemntal earthquake engineering, Rai, D.C.
149. Hydro-2005, Tumkur, December 2005, three contributed papers, Srivastava, R.
150. Size resolved chemical composition of Fog at Kanpur, India, Asian Aerosol Conference, December 2005, Manar, M., S. N. Tripathi, and S. Kishore.
151. Measurements of aerosol parameters during ISRO-GBP Land campaign-II at Kanpur (Indo-Gangetic Basin)-Chemical Properties, Asian Aerosol Conference, December 2005, Srivastava, A. K., S. N. Tripathi, N. Chinnam, Sagnik Dey, M. Manar, Vijay Kanawade, A. Agarwal, S. Kishore, R. B. Lal, V. Tare and M. Sharma.
152. What triggers particle nucleation during TOPSE atmospheric nucleation event?, Asian Aerosol Conference, December 2005, Kanawade, Vijay and S. N. Tripathi.
153. Evidences for New Particle Formation in the Arctic as a Part of TOPSE Atmospheric Nucleation Event, AGU Fall Meeting, San Francisco, December 2005, Tripathi, S. N. and Vijay Kanawade.
154. Model Prediction of Sulfuric Acid in the Tropical/Subtropical Cirrus Clouds as a Part of Crystal-Face Mission, AGU Fall Meeting, San Francisco, December 2005, Kanawade Vijay and S. N. Tripathi.
155. Symposium on wireless Networking System, University of Philippines, Nov 2005, Bhaskaran Raman
156. XXVIII URSI General Assembly, New Delhi, Oct 2005, Bhaskaran Raman
157. 11th Annual International Conference on Mobile Computing and Networking Paper, Cologne Germany, Aug 2005, Bhaskaran Raman
158. FSTTCS `Foundations of Software Techology, Hyderabad, Dec 2005, Sumit Ganguly

159. ISAAC Int'l Symp. on Automata, Algorithms, China, Dec 2005, Sumit Ganguly
160. ACM SODA Symp. on Discrete Algorithms, USA, Jan 2005, Sumit Ganguly
161. ICDCIT 2005, Bhubaneswar, Dec 2005, R K Ghosh.
162. IWDC 2005, Kharagpur, Dec 2005, R K Ghosh.
163. Satyam's conference on software Reliability, Hyderabad, July 2005, Contributed Paper, Pankaj Jalote.
164. 13th Asia Pacific Software Engineering Conference, APSEC 2005, Taiwan, Dec2005, Co- Program Chair, Pankaj Jalote.
165. ICICT 2005, Cairo , Dec 2005, Pankaj Jalote.
166. 11th International Computing Conference (COCOON 2005, Yunnan, China, Aug 2005, Shashank Kumar Mehta.
167. 31st International Workshop on graphs Theortic Concepts in Compter Science, (WG 2005 , Metz, France, June 2005, Shashank Kumar Mehta.
168. OOPSLA 2005, San Diego, Oct2005, Presenting a paper, T V Prabhakar.
169. CIT 2005, Shanghai, Sept 2005, Presenting a paper, T V Prabhakar.
170. National Science Congress, Hyderabad, Jan 2006, Presenting a paper, T V Prabhakar.
171. Pan-IIT Conference, Washington DC, USA, May, 2005, Attended, Dheeraj Sanghi.
172. 12th Int'l Conf. on High Performance Computing (HIPC 2006,, Goa , Dec 2005, Attended, Dheeraj Sanghi.
173. The Fourth IASTED International Conference on Computational Intelligence 2005, Calgary, Canada, July 2005, Contributed Paper, R M K Sinha.
174. International Conference on Artificial Intelligence ICAI-2005, Las Vegas, USA, July 2005, Session Chair, R M K Sinha.
175. Symposium on Modelling and Shallow Parsing of Indian Languages (MSPIL-06, IIT Bombay, April 2006, Presented Invited Paper, R M K Sinha.
176. FSTTCS, Hyderabad, Dec2005, Chaired a Session, Anil Seth.
177. IEEE International Symposium on Information Theory, Adelaide Australia (presented a contributed paper.), A. Ghosh
178. 12th National Conference on Communications, I.I.T. Delhi (IIT Kanpur representative in joint Telematics group meeting.) A Ghosh
179. IEEE Power Engineering Society General Meeting at San Francisco, California, USA in June 2005, A Ghosh
180. 2nd National Power Electronics Conference at IIT Kharagpur in December, 2005, A Ghosh.

181. National Power Electronics Conference (NPEC) 2005, IIT Kharagpur, Dec. 22-24, 2005, S.P. Das.
182. Presented a Contributed Paper and Chaired a Session on Application of Power Electronics in Power Systems-II, SP Das.
183. 13th International Conference on Intelligent System Application to Power (ISAP05, Washington, USA, November 6-10, 2005. (presented paper), SN Singh.
184. International Conference on Future Power System, Netherlands, November 16-18, 2005. (presented paper), SN Singh.
185. National Conference on Electric Power Technology, Management and IT Application, MMMEC Gorakhpur, February 17-18, 2006. (Delivered Keynote lecture), SN Singh.
186. Tutorials delivered at National Conference on Technical Challenges in Power Systems, KNIT Sultanpur, March 24-25 2006, S. N Singh.
187. Invited speaker, ELELTECH, CDAC-Hyderabad, 8-9 August 2005, Y. N Singh.
188. Invited speaker, Conference on Digital Learning Environments, ISI Bangalore Center, 11-13 January 2006, Y. N Singh.
189. Invited speaker, keynote speaker, session chairman, Conference on Electronic circuits and communications, Feb 9-10, 2006, TIET, Patiala, Y. N Singh.
190. Chaired the Grid Related Issues International Conference on Wind Energy: Trends and Issues, at National Institute of technical teachers' Training and Research, Bhopal, January 5-7,2006, -.
191. Winter School on Speech Recognition, (IISc., Bangalore), Jan. 2006 , Invited Speaker, Panelist in Discussion, S Umesh
192. National Conference on Communications , (IIT,Delhi), Jan 2006, Chairing of a Session,Presented contributed papers, S Umesh.
193. INAE Workshop on Image and Speech Processing (IIT, Chennai), Feb. 2006, Panelist in Discussion, S. Umesh.
194. Attended 2nd Indian International Conference on Artificial Intelligence, Pune, India, December 20-22, 2005. Chaired two sessions, Ramprasad Potluri.
195. ICCV- 2005, Beijing, China, 15-20 Oct, 2005, K. S Venkatesh.
196. NCC 2006, IIT Delhi, 27-29 January, 2006, K. S Venkatesh

197. Chaired a session at the 12th National Conference on Communications held at IIT Delhi during 27-29 Jan, 2006, A. K Chaturvedi.
198. International Semiconductor Device Research Conference (ISDRS), Bethesda, Maryland, U.S.A., December 7-9, 2005, Contributed paper, S. Qureshi.
199. IEEE International Conference on System, Man and Cybernetics, Hawaii, USA, 10-12 October, 2005, contributed paper, L. Behera.
200. 3rd International Conference on Materials for Advanced Technologies (ICMAT 2005 and 9th International Conference on Advanced Materials (ICAM 2005, 03-08 July 2005, Singapore: Presented two contributed papers, S. Kar.
201. Third International Symposium on High Dielectric Constant Gate Stacks, 16-21 October 2005, Los Angeles, California, USA.: Participated as Chairman of the Symposium and Session Chair. S. Kar.
202. IEEE PES General Meeting 2005 June 12-16 2005 in San Francisco, California (chaired a session and presented paper). S. C Srivastava.
203. National Power Engineering Conference (NPEC 2005 held at Thiagarajar College of Engineering, Madurai, during 16-17 December 2005 (Offered a tutorial and delivered inaugural address), S. C Srivastava.
204. International Seminar and Tutorial on Power Transmission Research Interests and Challenges, Central Power Research Institute Bangalore, December 20-22, 2005, Delivered tutorial and chaired session, S. C Srivastava.
205. National Conference on Electric Power Technology, Management and IT Application, MMMEC Gorakhpur, February 17-18, 2006. (Delivered Inaugural Keynote lecture and chaired a session), S. C Srivastava.
206. International Conference on Power System Operation in Deregulated Regime (ICPSODR-2006, IT BHU, India, March 6-7, 2006 (Delivered Keynote lecture and chaired a session) S. C Srivastava.
207. International Conference of Antenna Technologies (ICAT2005, Feb 23-24, 2005, ISRO, Ahmedabad, India, A.R. Harish.
208. International Radar Symposium India - 2005, Bangalore, 19-22 December 2005, AR Harish.
209. Presented a paper at 2nd National Power Electronics Conference, 2005, IIT Kharagpur, INDIA, Dec 22-24, 2005. Chaired a session, P. Sensarma.
210. The Triumph of the Religious Will, paper presented in the National Seminar on The Role of Faith and Reason in Religion, organized by Samvad, Navsadhana Kendra, Varanasi, March 23-25, 2006, B.H. Boruah.
211. What's the Use of Stories that aren't even true?: Politics and the Book, paper presented at the Asia- Pacific regional conference of the Society for

- the History of Authorship, Reading and Publishing (SHARP) at Jadavpur University, January 2006, Mini Chandran.
212. Instructional Design: A Perspective Based on Cognitive and Constructivist Approaches. 7th International Conference on Cognitive Systems, Centre for Research in Cognitive Systems, NIIT Institute of Technology, New Delhi, 14-15 December, 2005, S. Dixit..
 213. Experience of Disease and Reporting of Physical Symptoms: Relevant Issues and Theoretical Tenets. Section of Psychology in the 29th Indian Social Science Congress, Department of Psychology, Lucknow University, 27-28 December, 2005, Singh, R. and S. Dixit.
 214. Impact of Disease Information on Cancer Patients: Issues and Challenges. Section of Psychology in the 29th Indian Social Science Congress, Department of Psychology, Lucknow University, 27-28 December, 2005, Mehrotra, A. and S. Dixit.
 215. Lay Understanding of Mental Health and Illness: A Social Representations Approach. National Seminar on Psychophysiology of Well Being, Department of Psychology, M.D. University, Rohtak, 28-29 March, 2006, Maurya, A.S. and S. Dixit.
 216. Invited Theme paper National Seminar on Human Rights: Indian Scenario. DAV College, Kanpur, 12 December 2005, M. Jha.
 217. Paper presenter and panelist Symposium on Sociology in the IITs and IIMs: Trends, Prospects and Possibilities Deptt. Of HSS, IIT Bombay, 12-13 November 2005, Munmun Jha.
 218. Invited paper National Seminar on Aging Issues and Emerging Trends, MCM DAV College for Women, Chandigarh, 21-22 October 2005, Munmun Jha.
 219. The Conceptualization of Social Justice, Psychology Section, Indian Social Science Congress, Lucknow, Department of Psychology, Lucknow University, December 27, 2005, L. Krishnan..
 220. Panelist in Discussion - Workshop on Identity and Collective Experience, Jointly organized by Department of Psychology, Allahabad University, Allahabad, and University of Dundee, Scotland, UK - Feb. 8-9, 2006, L. Krishnan.
 221. Sociology of Education in India: Looking Back, Looking Forward, National Seminar, Zakir Husain Centre for Educational Studies, Jawaharlal Nehru University, New Delhi, 9-10 March 2006. Invited paper: Does education really change anything: Theoretical reflections on a case study, Amman Madan.
 222. Kiski Ankhon Ka Tara Hai Tu?: Picturing Motherhood and Adoption in Popular Hindi Cinema, presented at the 26th Annual Meeting of the

- National Women's Studies Association, Orlando, FL, June 9-12, 2005, Suchitra Mathur.
223. Holmes Reincarnated: A Study in Postcolonial Transposition, presented at The Detective Novel: Themes and Perspective, an international Conference organized by the Institut Catholique de Paris, Paris, France, May 10-12, 2005, Suchitra Mathur.
224. 20th Century Literature and Culture Conference. University of Louisville, February 23-25 2006, Presented an invited paper titled, Philip Roth's Nostalgia for the Yiddishkeit in The Plot Against America, G. Neelakantan.
225. Chaired a Technical Session and presented a paper entitled Productivity issues in In-House R&D units: An empirical enquiry in Indian metal industry in the International Conference on Productivity and Quality Research, organized by IIT Delhi in collaboration with International Society for Productivity and Quality Research, (University of Miami, USA) during December 12-15, 2005, Binay Kumar Pattnaik.
226. Delivered a keynote address titled, Sociology in IITs: Retrospect and Trends in Symposium on the Sociology in the IITs and IIMs: Trends, Prospects and Retrospects organized by the Department of Humanities and Social Sciences at Indian Institute of Technology Bombay during November 2005. Binay Kumar Pattnaik.
227. Presented a paper entitled Changing trends of Technological Research in India under Globalization in the International Conference on Globalization and Economic Asymmetries organized at the IIM Kozhikode in association with The Athenian Policy Forum INC, during December 15-17, 2005, Binay Kumar Pattnaik.
228. Chaired a Session: 11th International Conference on Productivity and Quality Research at IIT Delhi New Delhi, 12-15 December 2005, P.M. Prasad.
229. Presented a paper titled, Ethnography: A Critical Overview at the National Seminar on Holistic Paradigms in Psychology held at the Department of Psychology, Zakir Husain College, University of Delhi on 10-11 March, 2006, K.R. Priya.
230. Presented a paper titled, Understanding Disaster Trauma in a Culture-Sensitive Mode: Theoretical and Methodological Issues at the National Seminar on Environment and Human Behaviour held at the Department of Psychology, D.D.U. Gorakhpur University on 21-22 March, 2006, K.R. Priya
231. Role of Change Agents in Delivering the Service for Advance Warning for Disaster Prevention at Community Level, National Workshop on Community Approach to Flood management in India, organized by

- Institute for Resource Management & Economic Development in association with WMO and GWP, November, 28-29, 2005, Rath B.
232. A Study of Changing Patterns of Energy Consumption and Energy Efficiency in the Indian Manufacturing Sector in the 11th International Conference on Productivity and Quality Research, IIT Delhi, December 12-15, 2005, Rath B, & Jena P.R.
233. Rath. B. & Sahu N.C. 2005, Impact of Common Property Resources (CPRs) Utilization on the State of Labour Market in a Tribal Economy of India, 47th Annual Conference of The Indian Society of Labour Economics, JNU, New Delhi, December 16-18, 2005, Rath B. & Sahu.
234. Sustainable Development of Land and Water Calls for Application of IWRM Approach, National Seminar on Sustainable Development of Land Resources: Opportunities and Challenges, Armapore PG Degree College, Kanpur University, January 27-28, 2006, B. Rath.
235. Trade Liberalization Policy vis-à-vis Pollution Haven Hypothesis: Empirical Evidence from India, the Development Co-operation of Ireland International Conference, Dublin City University, Dublin, Ireland, March 23- 24, 2006, Rath B. & Jena P.R.
236. Invited to deliver the Inaugural Address of the International Bi-annual Session of the Global congress of Vedanta held at the Hindu University America, Orlando, FL, USA, October 8-12, 2005. Title of the Inaugural Address: The Beauty of Asymmetrical Identity: A Study of Sankara's Concept of Ananyatva, Srinivasa Rao.
237. Invited to present the paper Philosophy and the Challenges Facing the Modern World at the 24th Indian Social Congress held at the University of Lucknow, Lucknow between 26-30 December, 2005, Srinivasa Rao.
238. Invited to present the paper Reason and Religion: Why There is a Mismatch at the National Seminar on the Place of Reason and Faith in Religion organized by Samvada at Varanasi between 24-26, March, 2006, Srinivasa Rao.
239. Presented a paper on Colonial Chromosomes and Postcolonial Genes: Hybrid Metros in the Making of India in the Annual Conference of the Indian Association for Commonwealth Literature and Language Studies (IACLALS) on The Nation and the Postcolonial held from February 3 to 5, 2006 at the Department of English and Other Modern European Language, Visva-Bharati, Santiniketan, T. Ravichandran.
240. Presented a paper on Discrepancies in the Discourse of Oppositionality: De-Scribing the Exile Representations in Untouchable and Coolie in the International Seminar on Mulk Raj Anand and the Early Indian Novel in English held from December 11 to 13, 2005 jointly organized by the

- Department of English, Osmania University, Hyderabad and the Indian Association for Commonwealth Literature and Language Studies (IACLALS), T. Ravichandran.
241. 11th International Conference on Productivity and Quality Research (ICPQR), IIT Delhi, Dec 12-14, 2005, Chaired a Session on Productivity and Quality Concepts and Measurement Issues, K.K. Saxena.
 242. Presented a paper on Internationalization of Intellectual Property Rights: Implications for the Developing Countries. International Conference on Globalisation and Economic Asymmetries, IIM Kozhikode in association with The Athenian Policy Forum Inc, Dec 15-17, 2005, K.K. Saxena & Ruchi Sharma.
 243. National Seminar on Marriage & Family-Challenges and Trends, Department of Social Work, CSJM University, Kanpur, 15-16 Jan. 06, A.K. Sharma.
 244. National Seminar on Rethinking the National Legacy: Gandhi and the Freedom Movement, Jamia Millia Islamia, New Delhi, 20-21 February 2006, as discussant on paper entitled Gandhi and the Labour Problem, by Shambhu Joshi, A.K. Sharma.
 245. Dissemination Seminar: Reproductive and Child Health Project (DLHS-RCH, 2002-04), International Institute for Population Sciences, Mumbai and Population Research Centre, Lucknow University, Lucknow. Sponsored by Ministry of Health and Family Welfare, Govt. of India, New Delhi, at Hotel Clarks, Avadh, Lucknow, 26 May, 2005, participated and chaired a session, A.K. Sharma.
 246. Productivity and Efficiency in State Transport Undertakings in India: Determinants and Implication for Pricing in the Regional Science Association International (RSAI) Symposium and 37th Annual Conference of the Indian Regional Science Association held at the Indian Institute of Management Bangalore from January 6 to 8, 2006, S.K. Singh.
 247. Productivity, Prices and Profitability: A Case Study of Municipal Transport Undertakings in India in the 11th International Conference on Productivity and Quality Research organized by the Indian Institute of Technology Delhi in association with International Society for Productivity & Quality Research, USA. The Conference was held at IIT Delhi from December 12 to 15, 2005, S.K. Singh
 248. Transport Policy for Clean Air in Urban Areas in a National Conference on Urban Transport Planning and Management organized by the Central Institute of Road Transport (CIRT) Pune in collaboration with the Association for Transport Development in India (ATDI), New Delhi. The Seminar was held in CIRT Pune from October 20 to 22, 2005, S.K. Singh

249. Issues in Urban Transportation in India in the 16th Regional Conference of Clean Air and Environment in Asian Pacific Area 2005 (RCCA) held in the Kogakuin University, Tokyo, Japan from August 2 to 4, 2005, S.K. Singh.
250. Connecting nine dots with four straight lines: Toward a holistic framework in industrial organizational psychology. Invited paper in National Seminar on Holistic Paradigm in Psychology: Problems and Prospects. Dept of Psychology, Zakir Hussain College, New Delhi, March 10 - 11, 2006, Sinha, A. K
251. Use and interpretation of some multivariate statistical analyses in social science research. Invited lecture in two week training course on computer application in social science data analysis, sponsored by ICSSR, New Delhi, organized by G. B. Pant Social Science Institute, Allahabad, February, 13 - 25, 2006, Sinha A.K.
252. Indo-US Initiative on Technopreneurship in Academia; 23-25 January 2006; New Delhi; Conducted Jointly by, Indo-Us Science and Technology Forum, CSIR, Harvard-MIT and NSTEDB, DST, BV Phani.
253. Workshop on Competition Assessment and Regulatory Impact Analysis: Instruments for Competition Advocacy, March 17-18, 2006, New Delhi, Anoop Singh.
254. Advisory Committee Meet on Electricity Futures by Multi-Commodity Exchange of India, Jan., 2006 Mumbai, Anoop Singh.
255. International Conference on Knowledge Management, October, 28 -29, 2005, Charlotte, NC, USA, J. Chatterjee.
256. American Society of Information Science and Technology, International Conference on bringing Research and Practice together, October, 30 - November, 2, 2005, Charlotte, NC, USA, J. Chatterjee.
257. Manufacturing Summit on Competitiveness, August, 18-19, 2005, Indian School of Business, Hyderabad, J. Chatterjee.
258. Attended Two-Day Workshop on Operations Research Weekend, Organised by IIT, Delhi, and IBM Research, April 8-9, 2006, S Swami.
259. Round table discussion on Dissemination of Clean Technologies in Small and Micro Enterprises, Organisers: CoSMiLE (Competence Network for Small and Micro Learning Enterprises), TERI and Swiss Agency for Development and Cooperation (SDC), New Delhi, November 9, 2005, S Swami, Invited Member .
260. Attended Two-Day Training Program on Teaching Operations Management Topics Using SAP R/3, Organised by SAP, Bangalore, and

- Kelley School of Business, Indiana University, (Prof. M.A. Venkataramanan), August 8-9, 2005, S Swami.
261. INFORMS Marketing Science Conference, Goizueta Business School, Emory University, Atlanta, USA, June 16-18, 2005, S Swami.
 262. Technology mapping using patent literature for Operations Research ,Invited Paper, ICORAID-2005 ORSI, Bangalore ,27-29 December 2005, Ashok K Mittal.
 263. Patent Management at IIT Kanpur Indo- US Symposium on IP Management in Public Private Partnership Manesar, Feb12-14 , 2006, Ashok K Mittal.
 264. Role of Research Science and Engineering University in Developing Countries, Invited talk LUMS- SSE Workshop, Lahore Pakistan Feb 16-17, 2006, Ashok K Mittal.
 265. Text mining for Patent Literature, Workshop on Role of patent Literature in Technology Mapping, IIT Kanpur, December 1, 2005, Ashok K Mittal.
 266. National Convention of Quality Circle Forum of India , Ernakulam, December 27-29, 2005, Ashok K Mittal.
 267. ICORAID-2005-ORSI , Bangalore , 27-29 December, 2005, Ashok K Mittal.
 268. Eighth National convention on Student Quality Circle , Lucknow, 2-5, December, 2005, Ashok K Mittal.
 269. ICORD-V Fifth International Conference of O.R. in Development, Jamshedpur, 19-21 December, 2005, Ashok K Mittal.
 270. Indo-US Symposium on IP Management in Public-Private Partnership, Manesar 12-14 February, 2006, Ashok K Mittal.
 271. 15th Kanpur Chapter Convention on Quality Circle , Kanpur , 1 October, 2005, Ashok K Mittal.
 272. LUMS -SSE workshop, Lahore Pakistan, February 16-17, 2006, Ashok K Mittal.
 273. 9th Discussion meeting on harmonic analysis, HRI, Allahabad in Oct.'05 - invited talk on Integer translates L^p functions and chaired one session - S. Madan.
 274. 9th Discussion meeting on Harmonic Analysis HRI, Allahabad from Oct. 05 - invited talk, titled Order Convolution and Vector-valued multipliers, also chaired a session. . U.B. Tewari
 275. 9th Discussion meeting on harmonic analysis, HRI, Allahabad in Oct.'05 Contributory Paper by R. Rawat.

276. Recent advances in operator's theory and operator algebras III, I.I.Sc. Bangalore, December 12-22, 2005, invited lecture 'Approximation by K-finite functions in L^p spaces' by S.K Ray.
277. Recent advances in operator's theory and operator algebras III, I.I.Sc. Bangalore, December 12-22, 2005, lecture On Frechet algebras of power series by S.R. Patel.
278. 55th session of International Statistical Institute Sydney, Australia, April 2005, contributory paper 'On the regression method of estimation of population mean from incomplete data through imputation' by Shalabh
279. Golden Jubilee Congress of Indian Society of Theoretical and Applied Mechanics (An International Meet), 14-17 December, 2005, IIT Kharagpur, Invited talk Three dimensional bioconvection by S. Ghorai.
280. 20th summer conference on topology and its applications; July 10-14, 2005 Talk Order Convolution and vector-valued multipliers by U.B. Tewari.
281. International Conference on Reliability and Survival Analysis, at Indian Statistical Institute, New Delhi, December 20- 22, 2005- paper On Stochastic Comparisons of Poisson and Binomial Random Variables With Their Mixtures presented by N. Misra.
282. International Conference on Operations Research Applications in Infrastructure Development held at IISc, Bangalore from 27th to 29th Dec.'05, - paper presentation An efficient local search scheme for minimising weighted mean absolute deviation, by P. Sharma, A. Gupta.
283. International symposium on Algorithmic Operations Research at Simon Fraser University, Burnaby, Canada on the 27th Jan'06. Sharma, P. (participated)
284. Mini-symposium on Bilevel programming at T.U. Bergakademie, Freiberg, on 19th May 2005 Paper presented (with Stephan Dempe) titled: 'Bilevel programming with convex lower problems' by Dutta, J.
285. 8th International conference on generalized convexity and generalized monotonicity at University of Insubria, Varese, Italy, 3rd-8th of July 2005. Invited paper (jointly with Stephan Dempe), Dutta, J.
286. Recent advances in Operations Research and Graph Theory Calicut on December 16th and 17th, 2005 distinguished speaker Sridharan, M. R..
287. Commutative Algebra and Algebraic Geometry, Indian Institute of Mathematical Sciences, Chennai, August 1-6, 2005. Talk by Maloo, A.K.
288. 60th Annual meeting of the STLE, Las Vegas, NV, USA, May 15-19, 2005. Contributory paper (jointly with Saxena, S) Thermoelastohydrostatic lubrication of an externally Pressurized conical bearing with temperature and pressure dependent viscosity, by Sinha, P.

289. 3rd MIT Conference on Computational Fluid & Solid Mechanics, Cambridge, MA, USA, June 14-17, 2005, Contributory paper (jointly with Rao, P. S.) A streamline upwind Petrov - Galerkin finite element Simulation of thermo-hydrodynamic lubrication in titled pad slider bearing considering fluid inertia and heat conduction to the pad: reference to load generation in a parallel slider Sinha, P.
290. SCI 2005 international Conference held at Orlando, U.S.A, July 10-12'2005 - invited paper by Kadalbajoo, M.K.
291. Scientific Computation, Numerical Analysis and Application IISc Bangalore, India during July 18-21'2005 invited paper by Kadalbajoo, M.K.
292. International conference on Functional and numerical analysis I.I.T. Bombay, 7-9, December 2005, invited talk Convergence of slices and subdifferentials by Shunmugaraj, P.
293. Conference in Reliability Analysis Indian Statistical Institute, New Delhi, Dec. 20-22, 2005, paper Analysis of partially complete time and type of failure data, Kundu, D.
294. Indo-Chinese Conference on Probability and Statistics Indian Statistical Institute, Kolkata, Jan 4-6, 2006, paper: Generalized exponential distribution, Kundu, D (jointly with Gupta, R.D.).
295. National Conference on Lifetime Data Cochin University of Science and Technology, Feb. 20-22, 2006. Invited talk Step-Stress Model by Kundu, D.
296. International Conference on Topics in Functional and Numerical Analysis Indian Institute of Technology, Bombay, 07-09, December 2005, paper presented (jointly with Muslim M.), 'Approximations of Solutions to Nonlocal Functional Differential Equations' Bahuguna, D.
297. 17th Banach Algebra Conference at University of Bordeaux1, Bordeaux1, France, 2005 invited talk On Frechet algebras of power series; also chaired a session, Patel, S.R.
298. DST-CARDMATH working group & 4th update meeting on automata, concurrency, logic and verification, IIT Bombay, July, 2005, Invited Talk - Non-monotonic Reasoning, Banerjee, M.
299. 1st Indian Winter School on Logic and its Relationship with Other Disciplines, IIT Bombay, January, 2006 - Tutorial on Reasoning under uncertainty, Banerjee, M.
300. 1st International Conference on pattern recognition and machine intelligence (PreMI '05, ISI Kolkata, December, 2005, paper presented by Banerjee, M.,
301. Conf. on Topics on functional and numerical analysis, IIT, Bombay, from 7th to 9th Dec. 2005. Patel, S.R.

302. 9th Discussion meeting on harmonic analysis, HRI, Allahabad in Oct.'05, participated, S.R. Patel.
303. 4th Int. Conf. OWCHMT, May 17-20, 2005, Paris. Paper: Numerical predication of heat transfer and fluid flow in a complex ADSS geometry with straight guide-using SUPG-FEM, pp. no. ICCHMT 05163, Rathish Kumar, BV. Prakash, A.K., Biswas, G.
304. ASME, Summer Heat Conf. July 17-22, 2005 San Francisco, U.S.A. Paper HT 2005-72445, Thermal-Hydraulics of air ADSS with sharp 180° bend and St. flow guide using FEM, Rathish Kumar, BV., Prakash, A.K., Biswas, G
305. ASME. Int. Mech. Engng. Congress and Exposition, Nov. 5-11, 2005, Paper #IMEC92005-80262, 2005 Florida, U.S.A. Numerical simulation of ADSS with surface heat flux and heat generation using FEM, Rathish Kumar, BV., Prakash, A.K., Biswas, G
306. 18th National and 7th ISHMJ-ASME HMTC, Jan. 4-6, 2006 IIT Kharagpur, Paper # 4004, Numerical simulation of complex ADSS with FEM, Rathish Kumar, BV. Prakash, A.A., Biswas, G.
307. International Conference on Computational & Experimental Engineering and Sciences, 2005, December 1-6, IIT Madras, Dynamic Fracture Testing of Brittle Polymers Using a Modified Hopkinson Pressure Bar: An Evaluation), Invited paper, 2005, V.F. Evora and V. Parameswaran.
308. International Conference on Advanced Materials Design and Development, A top down approach to the modelling of fracture in amorphous glassy polymers, 14-16 December 2005, Goa, India, S. Basu and R. Estevez.
309. Session Chair and Organizer for SAE World Congress 2005, P-27: CI Engine Performance for Use with Alternative Fuels Session, to be held in Detroit, USA April 2005, A.K. Agarwal.
310. Session Organizer for SAE World Congress 2006, P-19: CI Engine Performance for Use with Alternative Fuels, Session held in Detroit, USA, April 2006, A.K. Agarwal.
311. Session Chair and Organizer for ASME- IC Engine Division Spring Technical Conference 2005, Track 1: Advanced Technology Session, to be held in Chicago, USA April 2005, A.K. Agarwal.
312. Session Chair and Organizer for ASME- IC Engine Division Spring Technical Conference 2006, Track 1: Session 4.1 on Alternative Fuels, to be held in Aachen, Germany, May 2006, A.K. Agarwal.

313. Conference Session Chair at NTPC National Vision Conference on Energy, Held in Delhi, January 2005, A.K. Agarwal.
314. 50th (Golden Jubilee) ISTAM Congress at IIT Kharagpur, 14-17 December 2005. K. Muralidhar.
315. Crystal Growth and Characterization, Loyola College, Chennai, 29th September 2005. K. Muralidhar.
316. *ICAMDD 05*. Goa. 14-17 December 2005. Presenting an invited paper. S. Mahesh
317. ASME Summer Heat Transfer Conference, San Francisco, California, USA, July 17-22, 2005. Contributed Paper. P.S. Ghoshdastidar.
318. Golden Jubilee Congress of Indian Society of Theoretical and Applied Mechanics (An International Meet), IIT Kharagpur, December 14-17, 2005. Invited Paper. P.S. Ghoshdastidar.
319. Some Aspects of Kaleidoscopic Flow Past a Square Cylinder, Aswathanarayana Honorary Lecture, 32nd National Conference on Fluid Mechanics and Fluid Power, Osmanabad, India, HL1-1-21, 15-17 December, 2005, G. Biswas.
320. Micro PIV workshop at Delft University, Netherland, April 2005, P.K. Panigrahi.
321. Indo-US workshop on Design Engineering, Bangalore, 5th - 7th January 2006, P. Kumar.
322. *ICAMDD-2005*, International Conference on Advanced Material Design & Development, 14th -16th December, Goa, P. Kumar.
323. ASME Turbo Expo 2005, Reno, USA, June 6-9, 2005, Contributed Paper, S. Sarkar.
324. ASME Turbo Expo 2005, Reno, USA, June 6-9, 2005, Contributed Paper, S. Sarkar.
325. 8th Annual CFD Symposium, Aeronautical Society of India, Bangalore, 11-13th August 2005, Invited paper, S. Sarkar.
326. 18th National & 7th ISHMT-ASME Heat and Mass Transfer Conference, January 4-6, 2006, IIT Guwahati, India, A.K. Saha.
327. 18th National & 7th ISHMT-ASME Heat and Mass Transfer Conference, January 4 - 6, 2006, Guwahati, India,. Poster presentation, Sameer Khandekar.
328. Computer Aided Production Engineering 2005, November 2005, Melbourne, Australia, N.V. Reddy.
329. First Japan-India Joint seminar on Micro/nano Manufacturing Science, Tokyo, Feb 2006, N.V. Reddy.
330. National Conference on Design for Product Life Cycle, February 17-18, BITS Pilani, N.V. Reddy.

331. IIT Roorkee, August, 2005 (S. C. Agarwal)
332. MRS Symposium, San Francisco, March 27- April, 2005 (S. C. Agarwal)
333. Presented poster titled Polycrystalline form of the flux line lattice and the anomalous variation in the critical current density at the DAE solid state physics symposium (50th Golden Jubilee year), B. A. R. C., Mumbai, Dec. 5-9th, 2005. (S. S. Banerjee)
334. Indo-French workshop on free electron laser and their applications, Goa, March 20-24, 2006, Invited Oral Presentation (Sudeep Bhattacharjee)
335. Workshop on Engineering challenges for Future Accelerators, IIT Delhi, March 13th 2006, Invited participant from IIT Kanpur (S. Bhattacharjee)
336. Plenary Lecture at the International conference on Traffic and Granular Flow 2005, Berlin (Germany), 10-12 October, 2005. (D. Chowdhury)
337. Invited talk at the National Conference on Physics in the Trails of Einstein' Indian Physical Society (Kolkata), 21-22 November, 2005. (D. Chowdhury)
338. Life Science Interface Workshop, EPSRC (UK), Bangalore 2005. (D. Chowdhury).
339. Third SERC School on Condensed Matter and Materials Physics held in BHU during February 28 to March 27, 2006. Delivered eight lectures on Phase Transitions in Disordered systems (Amit Dutta)
340. Invited talk at Department of Physics, Universitaet Dortmund, Germany Shocks in asymmetric simple exclusion processes, June, 2005 (S. Mukherjee)
341. National Symposium on Applications of Mössbauer Spectroscopy, JNV University, Jodhpur, worked as the Chairman Scientific Committee, One Invited Paper and two contributed papers, Chaired one session. (H. C. Verma)
342. Contributed papers at International Conference on Strongly Correlated Electron Systems held in Vienna, Austria during July 26th -30th , 2005. (Z. Hossain)
343. Symposium on Einsteinian Physics Indian Statistical Institute, Calcutta, 25, 26 June 05. on the National Advisory Board' (S. D. Joglekar)
344. International workshop on Theoretical High Energy Physics, IIT Roorkee, March 15-20, 2007 On the International Advisory Committee and National Organizing Committee (S. D. Joglekar)
345. National Conference on Nonlinear Systems and Dynamics-2006, Chennai, March 2006, Invited Speaker. (M. K. Verma).

346. Nonlinear Cosmology: Turbulence and Fields, held at ICTP in 9-12 May, 2005. contributed Speaker. (M. K. Verma).
347. International Solar Workshop on Transient Phenomena on the Sun and Interplanetary Medium, Nainital, April 2005, Invites Speaker. (M. K. Verma).
348. Negative refractive index and degenerate plasmonic surfaces, Third Indo-Israeli Meeting on Condensed Matter Physics, Toshali Sands, Puri, 17-21 April 2005, (Invited Lecture) (S. A. Ramkrishna)
349. Non-linear effects in negative magnetic meta-materials, The 6th General Assembly of the Union of Radio Science Inter-national (URSI), New Delhi, 23-29 October 2005 (Invited paper). (S.A. Ramakrishna).
350. Condensed Matter meeting at S. N. Bose National Centre for Basic Seminar, March 10-11, 2006, Invited talk. (Dr. R. Prasad).
351. Symposium on statistical and condensed Matter Physics, School of Physics JNU March 3-4, 2006, Invited talk. (Dr. R. Prasad)
352. Indo-EU workshop on Computational Materials Science, IISc Bangalore, Feb 20-22, 2006 Chaired a session. (Dr. R. Prasad)
353. International conference on Advanced materials, Design and Development, Goa, Dec. 14-16, 2005, invited talk, chaired a session. (Dr. R. Prasad)

OTHER ACTIVITIES

(A) TECHNOLOGY DEVELOPED

1. Design and development of a coal combustor, D. P. Mishra.
2. Set of Imidazoline-5-one analogues that absorb wavelengths of light have been developed for applications in organic photo diodes. This technology will be patented soon, R. Gurunath.
3. Scale up process of biodegradable polymers for nanoencapsulation of tuberculosis drugs : Jointly funded by DST and life care innovation, Gurgaon, India, S. Sundar Manoharan.
4. Prasant A., Ring Shear Apparatus for residual shear strength properties of soil. (Stability analysis of natural and manmade slopes against catastrophic failures), Further development needed.
5. Algorithms and software for network topology planning in Long- Distance Wireless mesh networks (further development needed), Bhaskaran Raman.
6. Wireless sensor network based system for structural health monitoring of Railway bridges (further development needed), Bhaskaran Raman.
7. Wireless sensor network based system for vibration monitoring of Industrial Motors (further development needed), Bhaskaran Raman.
8. The SRAWAN MAC protocol and 2P MAC implementation on Atheros-based Chipsets, in collaboration with Zazu networks, Bangalore, Bhaskaran Raman.
9. A Visual browsing tool for large Ontologies, T V Prabhakar.
10. Automatic Generation of Topic Map Driven Portals, T V Prabhakar.
11. Pickpacket v2: Network Monitoring Tool (Ready to be transferred.) Dheeraj Sanghi
12. AnglaBharti-II: English to Indian Languages Machine Aided Translation Technology (under development), R. M. K Sinha.
13. AnuBharti-II: Hindi to English and other languages Machine Translation Technology (under development), R. M. K Sinha.
14. 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.
15. True Zoom, Miltiview Image Format. Some more Development Needed., K. S Venkatesh.
16. Anthropological Security: Ready for Transfer, K. S Venkatesh.
17. UHF RFID tag antenna, prototypes are undergoing testing at the partnering

organization. A. R Harish.

18. A low power, wideband, hybrid active filter: hardware under development, P. Sensarma
19. A fast and improved PLL for Power System applications: hardware implementation in progress, P. Sensarma.
20. BriMon: Towards Long Term Bridge Monitoring (based on Sensor Networks), Further Development needed. K. Chebrolu.
21. Interactive Knowledge and Information Network for Food Corporation of India. Project sponsored by FCI and deployed in May, 2005, J. Chatterjee.
22. Digital Ecosystem for Agriculture and Rural Livelihood Service Network. Project sponsored by Media Lab Asia, MCIT, Phase I operational since December, 2005, J. Chatterjee.
23. Agricultural Ontology Service deployment through knowledge portal, Phase I, www.kheti.org.in operational since January, 2006, J. Chatterjee.
24. Patent Mapping Search Engine www.patentsmapping.com, AK Mittal & Veena Bansal.
25. Novel Turn-Indicator using SMA (Transferred to GM), B. Bhattacharya.
26. WIRO-The wire manager, P. Kumar.
27. A low cost table top setup for imaging data on a magnetic strip. (Patent applied for.) Satyajit Banerjee
28. Developed STM Control electronics in collaboration with Nuclear Science Center, New Delhi. (Anjan K. Gupta)

(B) SOFTWARE DEVELOPED

1. AnglaHindi-II : English to Hindi MAT System (under development) RMK Sinha.
2. HindiAngla-II : Hindi to English MAT (under development), R. M. K Sinha.
3. Brihaspati-2, Brihaspati_sync : ready for transfer, Y. N Singh.
4. Software developed for portfolio selection problem using GA, RRK Sharma and K Pankaj.
5. Software developed for dynamic plant layout problem (DPLP) using GA, RRK Sharma and SP Singh.
6. Developed a LES code for complex geometry. S. Sarkar.

(C) INDUSTRIES VISITED

1. Institut Européen des Membranes, Montpellier, France: from November 29, to December 29, 2005 (one month) - Research under Indo-French project, P.K. Bhattacharya.
2. Ranbaxy, Mohali - Discussion for consultancy - March 16, 2006, P.K. Bhattacharya.
3. Chemical Engineering Dept., Aligarh Muslim University - Thesis examiner and seminar presentation - February 04, 2006, P.K. Bhattacharya.
4. Chemical Engineering Dept., I. I. T. - Delhi - Thesis examiner and selection committee member, October & November, 2005, P.K. Bhattacharya.
5. Chemical Engineering Dept., I. I. T. - Kharagpur - Thesis examiner, October, 2005, P.K. Bhattacharya.
6. Formosa Plastics, Maliliao Village, Yunlin Country, Taiwan: One day workshop on Process Safety, Dec. 5-7, 2005, J.P. Gupta.
7. National Yunlin University of Science & Technology, Yunlin, Taiwan: Discussion on Collaborative research projects. Dec. 7-9, 2005, J.P. Gupta.
8. Threads India Pvt. Ltd, Consultancy project on improving adhesion of nylon filaments with each other in a thread. Started on 16 November 2005 and still continuing, Y.M. Joshi.
9. Spent last summer for research purpose (June-July, 2005 in Siegen University, Germany as a visiting faculty with a short term Alexander von Humboldt fellowship, Manas K. Ghorai.
10. Consultancy project initiated on composite polymer sleepers with rawatsons Pvt.
11. Ltd., Mumbai (Six months), S. Sundar Manoharan.
12. HCC, Mumbai Site - Site visit for one day, BARC, Mumbai - Facility visit for one day, Konkan Railway at Ratnagiri - Site visit and collection of data related to land sliding and boulder movements. For two days, Prasant A..
13. University of Maryland, College Park, Dheeraj Sanghi.
14. NTU, Singapore, Dheeraj Sanghi.
15. IIT Delhi, Dheeraj Sanghi.
16. IIIT, Hyderabad, Dheeraj Sanghi.
17. IDRBT, Hyderabad, Dheeraj Sanghi.
18. CDAC, Hyderabad, Dheeraj Sanghi.
19. CDAC, Trivandrum, Dheeraj Sanghi.
20. AK College of Engineering, Srivilliputtur, TN, Dheeraj Sanghi.
21. ERNET, New Delhi, Dheeraj Sanghi.
22. NIC, New Delhi, Dheeraj Sanghi.
23. DIT, New Delhi, Dheeraj Sanghi.
24. CERT-In, New Delhi, Dheeraj Sanghi.
25. Intel, Bangalore, Dheeraj Sanghi.

26. NIFFT, Ranchi, Dheeraj Sanghi.
27. AirTight Networks, Pune, Dheeraj Sanghi.
28. CDAC, Pune, Dheeraj Sanghi.
29. Persistent Systems, Pune, Dheeraj Sanghi.
30. Nanyang Technological University, Singapore for a fortnight in December, 2005, A. K. Chaturvedi.
31. Attended Workshop on Special Manpower Development Programme in the area of VLSI Design, February 3-5, 2006, held at I. I. T. Madras, S. Qureshi
32. Chung-Ann University, Seoul, Korea as a distinguished professor from August 2005 to December 2005, A. Biswas.
33. Institute of Engineering Tribhuvan University Nepal, 8-9 Jan. 2006, S. C. Srivastava.
34. NTU Singapore during December 03-16, 2006 for exploring possible technical collaboration, A. R. Harish.
35. Delivered two lectures on Fractal Antennas and Chaos at Microwave Frequencies, A. R. Harish
36. BHEL, Bhopal, for Research Based Industrial Consultancy. (MoU signed on April 25, 2006, P. Sensarma.
37. University of Peredaniya, Kandy, Sri Lanka, Prof. J. Chatterjee.
38. National University of Singapore, Prof. J. Chatterjee.
39. ICRISAT, Hyderabad, Prof. J. Chatterjee.
40. Tata Steel, Janshedpur, Prof. J. Chatterjee.
41. Schneider Electric, New Delhi, Prof. J. Chatterjee.
42. FAO, Rome, Prof. J. Chatterjee.
43. ISI Delhi from 2nd June 2005 to 29th June 2005, Lal, A.K.
44. Shalabh visited (i) Faculty of information technology, Bond University, Australia in April 2005. (ii) Department of Statistics, University of Woolangong, Woolangong, Australia in April 2005, (iii) Institute of Statistics, Ludwig Maximilian University, Munich, Germany in May 2005, (iv) Institute of Statistics, University of Angsburg, Angsburg, Germany in May 2005.
45. Visited The Institute of Mathematical Sciences, Chennai, June-
46. July 2005, Banerjee, M..
47. Visited the Department of Mathematics, University of Bordeaux1, Bordeaux1, France from 1st June to 18th July 2005 for collaborative work with Prof. J. Esterle and M. Akkar, S. R. Patel.
48. Visited the Department of Mathematics, University of Copenhagen, Copenhagen, Denmark from 24th May to 31st May 2005 to discuss the research with Profs. K. B. Laursen and N. Gronbaek, S. R. Patel.
49. Visited ISI Kolkata, Stat/math Unit from 20th June, 2005 to 8th July, 2005, S. K. Ray.

50. Visited TU Berlin as Mercator Guest Professor during May-Dec 2005. From there also visited 4 other universities at Braunschweig, Munich and Karlsruhe, B. Dasgupta
51. Visited GEMPPM, Insa-Lyon, Lyon, France, Visiting Assistant Professor during 3rd May-28th July 2005, S. Basu.
52. Visited Department of Mechanical Engineering, Stanford University, California, USA, P. Kumar.
53. Visited University of Santa Catarina, Florianopolis, Brazil, as Visiting Faculty during June- July 2005, Research on Pulsating Heat Pipes and Summer Course (30 hrs, 12 Graduate Students) on Heat Pipe Science and Technology, Sameer Khandekar.
54. Visited Nuclear Science Centre, New Delhi, for scientific interaction and collaboration, during 2-3 February, 2006, Sudeep Bhattacharjee.
55. Visited Nuclear Science Centre, New Delhi, for scientific interaction and collaboration, during 12-15 March, 2006, Sudeep Bhattacharjee.
56. Visited Institute of Physics, Bhubneswar for Collaborative research during April 2005, S.A. Ramakrishna.
57. Visited Raman Research Institute, Bangalore for Collaborations and Colloquium in July 2005, S.A. Ramakrishna.
58. Visited Inter University Accelerator Centre, New Delhi for Discussions and Seminar in March 2006, S.A. Ramakrishna.
59. Visited the Centre for Theoretical Physics, MIT during 11th to 17th May, 2005, for discussions with the MIT String Theory group. (Dr. T. Sarkar)
60. Visited the High Energy Theory Group, Harvard University, during 17th to 26th May, 2005, for discussions with the Harvard String Theory group. (Dr. T. Sarkar)
61. Visited the Ohio State University for discussions with the String Theory Group, during 26th to 29th May 2005. (Dr. T. Sarkar)
62. Visited the High Energy Group, Caltech, for discussions with the String Theory Group, during May 29th to June 5th, 2005. (Dr. T. Sarkar)
63. Visited the Physics Department, University of Lethbridge, Alberta, Canada, during June 6th to 24th, for discussions with the High Energy Physics Group. (Dr. T. Sarkar)
64. Visited International Center for Theoretical Physics, Trieste (as an Associate), and University of Brussels for collaboration during summer 2005. (Dr. M. K. Verma)

(D) PATENTS

1. Process for the Recovery of Inorganic Chemicals from Kraft Black Liquor - Patent No. (India) 189310, P.K. Bhattacharya.
2. Indian Patent No.2787/DEL/2005, filed on 19.10.2005, A method and apparatus for the formation of patterns on surfaces and an assembly and alignment of the structure thereof, A. Sharma, M. Gonuguntala, S Subramanian and R. Mukherjee, P.K. Bhattacharya.
3. System and Method for Improved Coherent Pulsed Communication System having Spectrally Shaped Pulses, M. Sinha and D. Goswami, US Patent US2004/0208613 A1.
4. A novel method to prepare Gamma Iron oxide, Indian Patent Appl. No.532/Del/2001, accepted April 2006, S. Sundar Manoharan, Ranjan Kumar Sahu, Manju Lata Rao, M. Qureshi, J. Prasanna.
5. Programmable Interface without Computer. Initial Disclosure Filed through Media Lab Asia May 2005, Sarala Verma and Amitabha Mukerjee.
6. Power Supply for Personal Computers, in place of the Conventional SMPS and UPS. Awaiting filing of patent. K. S Venkatesh.
7. US patent on Dielectric Resonator, US patent Application No. 11/2248023, Date of filing: Oct 11, 2005, Kumar Vaibhav Srivastava, Vishwa V. Mishra, Animesh Biswas.
8. Variable threshold voltage in proximally located MOSFETs by controlling buried oxide and location below the transistor, 2056/DEL/2005, S. S. K Iyer, Chander Pal and Baquer Mazhari.
9. Transfer of Power to contact-less Smart Cards with light from the reader 2190/DEL/2005, S. S. K Iyer.
10. Patent on Solar Cells with CNT ____/DEL/2006, Arun Tej Mallajosyula and S. S. K Iyer.
11. B. Bhattacharya, Vibration Damping System And A Method Of Damping Vibrations, US Patent No. 6688439.
12. Kamal K. Kar, P. K. Agnihotri And S. Dasgupta, Carbon Nanotube Coated Long Fiber And The Process For Preparation Thereof, Ref. No.:- 3061/Del/2005 Dated: 16th November, 2005, India.
13. Kamal K. Kar, P. K. Agnihotri And S. Dasgupta, Nickel Coated Carbon Fiber Reinforced Polymer Composites And A Method For The Preparation Thereof, Ref. No.:- 3062/Del/2005 Dated 16th November 2005, India.
14. Kamal K. Kar, P. K. Agnihotri And S. Dasgupta, A Method For Preparation Of Nanoparticle Coated Carbon Fiber, Ref. No.:- 3063/Del/2005 Dated 16th November 2005, India.

15. Kamal K. Kar And Ahankari S. Suresh Rao, A Functionally Graded Elastomer Nanocomposites (Fgencs) And A Process For Preparation Thereof, Ref. No.:- 3125/Del/2005 Dated 23rd November 2005, India.
16. Kamal K. Kar And Pradip Paik, A Process For Preparation Of Nanoparticles Of Higher Molecular Weight Of Polyethylene Polypropylene And Polystyrene, Ref. No.:- 3161/Del/2005 Dated 25th November 2005, India.
17. Kamal K. Kar, P. Kumar, N.G.R. Iyengar And P. K. Agnihotri, Carbon Nanotube And Nanoparticle Coated Carbon Fiber Reinforced-Polymer Hybrid Nanocomposite With Improved Thermomechanical Properties And A Process For Preparation Thereof, Ref. No.:- 1813/Del/2005 Dated 14th July 2005, India.
18. Corrosion Resistant Phosphoric Iron for Concrete Embedment and Reinforcement Applications Indian Patent Application No. 1823/DEL/2005, R. Balasubramaniam.
19. Plasmon Assisted Enhancement of Organic Optoelectronic Devices, US Patent No. 6,999,222 issued on 14 February 2006, G.C. Bazan*, J.C. Ostrowski*, A. Mikhailovsky*, M. Katiyar (*University of California, Santa Barbara).
20. Applied for Indian Patent on the work Synthesis of nano iron carbides by reaction milling in a dual-drive planetary mill, D.Chaira, B. K.Mishra, and S. Sangal.
21. Applied for Indian Patent on the work Technique for the preparation of thin foils for cross sectional transmission electron microscopy of very thin surface layers including Galvannealed coating on steels, S.Sangal.
22. An improved organic light emitting diodes, an improved organic emitting diodes for tuning the white emission and a process for fabrication thereof, Patent Application No.1532/DEL/2005, A.Sharma .M.Katiyar, D.Gupta, Shu Seki.

(E) AWARDS AND HONOURS

1. Fellow, Indian National Academy of Engineering (FNAE) 2006, S.Mittal.
2. Member of the Organizing Committee of the Indo-US Frontiers of Science Symposium conducted in January 2005 by the Indo-US Forum, DST, S.Mittal.
3. Member of the Organizing Committee International Seminar on Technologies & Trends in Development of Para Recovery Systems, (PARA INTERNATIONAL 05 Agra, India, March 15-17, 2005, S.Mittal.
4. Member, Advisory Board, International Journal of Numerical Methods in Fluids John Wiley & Sons 2005, S.Mittal.
5. Chairman, Organizing Committee, First National Frontiers of Engineering Symposium (NatFOE), February 4-5, 2006, IIT Delhi, S.Mittal.

6. Co-Chairman, Organizing Committee, First Indo-US Frontiers of Engineering Symposium (FOE), March 1-5, 2006, Jaypee Palace Hotel and Convention Center, Agra, S.Mittal
7. Member, International Organizing Committee of ICCM07, Int. Conf. on Computational Methods, to be held in Hiroshima, JAPAN, 4-6, Apr. 2007, S.Mittal
8. Elected Fellow, The National Academy of Sciences, India, Allahabad, 2005, S. K. Gupta.
9. BRNS Young Scientist Research Award by Department of Atomic Energy, Government of India, Y.M. Joshi.
10. J. C. Bose Fellow, Department of Science & Technology 2006, A. Sharma.
11. Member of Editorial Advisory Board, The Canadian Journal of Chemical Engineering 2006-2007, A. Sharma.
12. Member of Editorial Board, Indian Chemical Engineer (Journal of the Indian Institute of Chemical Engineers; 2006, A. Sharma.
13. Professor Gopal Tripathi Memorial University Lecture, Banaras Hindu University 2005, A. Sharma.
14. Bronze Medal of Chemical Research Society of India, February, 2006, Dr. A. Chandra.
15. International Who's Who citation 2005, D. Goswami.
16. Swarnajayanti Fellowship in Chemical Sciences, DST, S. Verma.
17. Bronze Medal, Chemical Research Society of India, S. Verma.
18. Prof. R.D. Desai 80th Birthday Commemoration Award of 2004 was given early 2006, V.K. Singh.
19. CNR Rao Lecture, IIT Kanpur, Fellow, Academy of Sciences for the Developing World (TWAS), Trieste, Italy, N. Sathyamurthy.
20. Keynote Lecture, A Probabilistic Seismic Hazard Analysis of North-East India, at the International Conference on Advances in Structural Dynamics and its Applications (ICASDA-2005, College of Engineering, GITAM, Visakhapatnam on December 7-9, 2005, Gupta, Vinay Kumar.
21. Awarded Royal Society Fellowship to carry out research at the University of Leeds, Leeds, UK, Feb-Jul, 2006, Jain, Ashu.
22. Fellow of the Indian Water Resources Society, Jain, Ashu.
23. Fellow of the Indian Society for Hydraulics, Jain, Ashu.
24. Editor-in-Chief, World Housing Encyclopedia, Earthquake Engineering Research Institute, October 2005 - present, See <http://www.world-housing.net>, Murty, C.V.R..
25. ICI Best Construction Technique Paper Award for authoring the book Earthquake Tips: Learning Earthquake Design and Construction, Indian Concrete Institute, September 2005, Murty, C.V.R..

26. Honorary Advisor (Earthquake Mitigation), Government of National Capital Territory of Delhi, June 2005 – present, Murty, C.V.R.
27. Young Researcher Fellowship Award, Third M.I.T. Conference on Computational Fluid and Solid Mechanics, June 2005, at the Massachusetts Institute of Technology, Cambridge, MA 02139 U.S.A., Prashant A.
28. Invited Speaker, First Indo-US Frontiers of Engineering Symposium, Agra, March 3-5, 2006, First National Frontiers of Engineering Symposium, Feb, Rai, D.C.
29. G.M. Nawathe award of the Indian Society for Hydraulics for best paper at Hydro-2005, Srivastava, R.
30. Program committee chair for 21st conference on computational complexity to be held in Prague, July 2006, Manindra Agrawal.
31. Godel Prize for outstanding paper in the area of theoretical computer science, Manindra Agrawal.
32. Prog Committee ICSM, RE, ISSRE etc, Pankaj Jalote.
33. Invited Expert on occasion of release of CD for Hindi fonts and Web-site by Smt. Sonia Gandhi, Vigyan Bhavan, June 20, 2005, R M K Sinha.
34. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC), R M K Sinha.
35. Chairman of the Working Group on Localisation and Language Technology Standards under National e-Governance Program (NeGP), R M K Sinha.
36. Member IASTED International Technical committee, R M K Sinha.
37. Elected Fellow of IEEE for contributions to education in power electronic applications to transmission and distribution systems, A. Ghosh
38. Invited Expert on occasion of release of CD for Hindi fonts and Web-site by Smt. Sonia Gandhi, Vigyan Bhavan, June 20, 2005. R. M. K Sinha.
39. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC). R. M. K Sinha.
40. Chairman of the Working Group on Localisation and Language Technology Standards under National e-Governance Program (NeGP), R. M. K Sinha.
41. Member IASTED International Technical committee, R. M. K Sinha.
42. Vice Chairperson, Technical Activities of IEEE India Council for the year 2006, S. C Srivastava.
43. Invited to join as Member of the State Advisory Committee of the U.P. Electricity Regulatory Commission, S. C Srivastava.
44. Chief Guest to the inaugural function of the National Power Engineering Conference (NPEC 2005 held at Thiagarajar College of Engineering, Madurai, during 16-17 December 2005, S. C Srivastava.
45. Bharat Jyoti Award (India International Friendship Society), P. K Kalra.

46. Inclusion in Afro-Asian Who's Who 2006, Rifacimento International, New Delhi, Braj Bhushan.
47. Man of The Year Award 2005, American Biographical Institute, North Carolina, USA, Braj Bhushan.
48. Received the Manas Chatterji Award for Excellence in Research in Regional Science during the Regional Science Association International (RSAI) Symposium held at the Indian Institute of Management Bangalore during Jan. 6-8, 2006. This award is instituted by Dr. Manas Chatterji, Professor of Management, School of Management, Binghamton University (State University of New York), Binghamton, NY on behalf of Regional Science Association - Indian Section, S.K. Singh.
49. VIJAYSHREE AWARD, 2005, India International Friendship Society, New Delhi, Award given at the hands of Honorable Minister Shri Haroon Yusuf, Minister for Transport and Power, Govt of Delhi, Prof. RRK Sharma.
50. GLORY OF INDIA GOLD MEDAL, 2005, International Institute of Success Awareness, New Delhi, Award given at the hands of Dr Bhisham Narain Singh, Honorable Ex Governor of Tamil Nadu State, India, Prof. RRK Sharma.
51. LFIBA, Life Fellow, International Biographical Association, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, Prof. RRK Sharma.
52. The IBC Leading Educators of the World 2005, given by International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, Prof. RRK Sharma.
53. Reviewer, International Journal of New Product Development, Hong Kong, Prof. RRK Sharma.
54. Reviewer, Academy of Marketing Science Review and Journal of Macromarketing, Rohit Varman.
55. Reviewer, ACR (Association for Consumer Research)/Sheth dissertation competition, 2006, N K Sharma.
56. Visiting Researcher Fellowship from Asian Development Bank Institute, Tokyo for a period of 6 months from July 2005, Anoop Singh.
57. Reviewer, Academy of Management Review, Philosophy of Management, IIMB Review, Rahul Varman.
58. Member of Editorial Board, Journal: eSocial Sciences, Rahul Varman.
59. Nominated to International Advisory Board of ICKM 2006, Greenwich, London, www.ICKM2006.org, J Chatterjee.
60. Prof. J Chatterjee, Nominated as Track Chair to Information System Governance Conference, PACIS 2006, Kualalampur, Malaysia. www.pacis2006.com.my.
61. Prof. J Chatterjee, Invited to Academic Advisory Council of Management School, Thapar Institute of Engineering & Technology, Patiala.

62. Prof. J Chatterjee, Invited to Global Experts Group on Digital Content Management, FAO, Rome.
63. Dr S Swami, Best Reviewer (Top 60 List), Marketing Science, Senior Member, ORSI (Operational Research Society of India), Member, CDC (Consultancy Development Center), New Delhi, Reviewer : Manufacturing and Services Operations Management, Management Science, Annals of Operations Research, International Marketing Review, IIMB Management Review, D.E.I. Journal of Science and Engineering Research.
64. Dr P. Mehta, Reviewer, IIMB Review (IIMB Journal).
65. INAE Young Engineer Award-2005 awarded by Indian National Academy of Engineers, India, A.K. Agarwal.
66. Swarna Jayanti Fellowship awarded by DST, 2005-2006, P.K. Panigrahi.
67. Young Scientist awarded by the Department of Atomic Energy, Government of India, 2005. Sameer Khandekar.
68. S.S. Bhatnagar awarded by CSIR in Engineering Sciences for the year 2005, Kalyanmoy Deb.
69. AICTE Career Award awarded by AICTE, 200502006, Anupam Saxena.
70. Appointed to the Editorial Board of *International Journal of Machining and Machinability of Materials*, V.K. Jain.
71. Invited to join the editorial board of *International Journal of Nano-manufacturing*, an Inter science Journal, V.K. Jain.
72. Presented the Ashwathanarayana keynote lecture during the annual Fluid Mechanics and Fluid Power Conference held at Osmanabad (Maharashtra), G. Biswas.
73. Nominated to the Editorial Consultant Board of *International Journal of Advanced Robotics Systems*, Ashish Dutta
74. Invited to join Editorial Advisory Board Member of Transactions of the, Indian Institutof Metals Journal, R. Balasubramaniam.
75. Invited to join Editorial Board Member of Journal of South Asian Archaeology Journal, R. Balasubramaniam.
76. The research on corrosion of phosphoric irons being conducted in the laboratory, Has been covered in a special article in the journal MATERIALS PERFORMANCE, [M.V. Veazey, 1600 Years Young, Materials Performance, **44(7)** 2005 16-19]. This article was also reprinted in CHEMISTRY INTERNATIONAL [**27(6)** 2005 10-5], R. Balasubramaniam.
77. Indian National Science Academy (INSA) medal for 'Young Scientist' in Engineering Sciences, 2005, B. Basu.
78. Invited foreign member on the editorial board of Journal of Korean Ceramic Society, B.Basu.

79. Editorial board member of India's only Biomaterials journal: Trends in Biomaterials and Artificial organs, published by Society of Biomaterials and Artificial organs (SBAOI), B.Basu.
80. Invited as a member of the Editorial Board of the journal Powder Metallurgy, published by the Institute of Materials, Minerals and Mining, London, R.K. Dube.
81. Invited as a member of the Central Advisory Board of Archeology, Government of India, New Delhi, and also as a member of its Standing Committee, R.K. Dube.
82. Sri Ram Arora Award 2005 presented by the TMS, USA, A.Garg.
83. Elected a fellow of the Indian Institute of Metals, D Mazumdar.
84. Re-elected , Key Reader Materials & Metallurgical Transactions, D Mazumdar.
85. Best Poster Award in International Conference on Advances in Materials Design and Development, Goa (India), 14-16 Dec2005, Umesh Prasad, Sumeet Kumar and Ashish Garg.
86. G.S. Tendulkar Prize for the overall best paper in the PM-06 conference by Powder Metallurgy Association of India, Feb 06, A. Upadhyaya.
87. Continue as Honorary Technical Director of METFORM India, Bangalore, A. Upadhyaya.
88. Invited to serve as a member of the Editorial Advisory Board of the 'Transactions of the Indian Ceramic Society and Transactions Indian Institute of Metals, A. Upadhyaya.
89. Appointed as Joint Secretary of the Powder Metallurgy Associate of India (PMAI) , A. Upadhyaya.
90. Elected Fellow of the National Academy of Sciences 2005, Prof. R. C. Budhani.
91. Paper titled A Compact Scanning Tunneling Microscope System for Low Temperatures got selected for presentation at YPC-05 (Colloquium for young Physicists) in SINP, Kolkata. (Dr. Anjan Kr. Gupta)
92. Review Paper The Physics of negative refractive index materials, Rep. Prog. Phys. 68, 449-521 2005 was adjudged by IOP, UK as one of the Highlights for the year 2005 and show-cased by the journal. (Dr. S. A. Ramakrishna)
93. Best Paper Award for his research paper entitled Magnetotransport in ZnCoO films in the Journal of Physics: Condensed Matter for the year 2005, Professor R.C. Budhani.

(F) CONTINUING EDUCATION ACTIVITIES

1. CEP Course On Design of FAE Bombs at HEMRL, Pune , A. K. Ghosh.

2. CEP Course On Issues Related to Parafoil Dynamics at ADRDE, AGRA, A. K. Ghosh.
3. CEP Course On Engineering Approach Towards- Prediction, Accuracy of an Artillery Shell and Rocket at PXE Chandipur, A. K. Ghosh.
4. CEP Course On, Stability and Control of Military Transport Aircraft at HAL, Kanpur, A. K. Ghosh.
5. Coordinator, Non Conventional Energy Sources, IRDP sponsored short-term course, December 2005, D. P. Mishra.
6. HAL Management and Design Trainee Programs, C.S.Upadhya.
7. Following faculty members and scientists of the department participated in short term course on selected topics in biology held for CHIPS in the e-classroom from Feb 2nd -Feb. 10th, 2006 at IIT Kanpur., Dr. K. Subramaniam, Dr. Ashok Kumar, Dr. R. Sankararamkrishanan, Dr. S. Ganesh, Dr. Jamuna Subramaniam
8. Keynote Address on Bio-separations and pressure driven membrane separations: an overview, in a Workshop on Biotechnology & Bio-separations (under TEQIP) at department of Chemical Engineering, JNTU College of Engineering, Ananthapur (A.P.) on February 16, 2006, P.K. Bhattacharya.
9. Visited National Chemical Laboratory, Pune as a visiting faculty to conduct courses on fundamentals of polymer science, viscoelasticity, thermodynamics and statistical mechanics, Y.M. Joshi.
10. Delivered lectures in the DST-SERC School on Modeling of Industrial Reactors, May 2005, IIT Bombay, D. Kunzru.
11. DST sponsored SERC School on Colloids and Interfaces, IIT Bombay, March 2006; gave 5 lectures; number of participants: 25, Ashutosh Sharma.
12. SERC/DST School on Modeling and Optimization of Chemical Reactors, I I T, Bombay: Polymerization Engineering and Genetic Algorithms (6 lectures), May 2005, S. K. Gupta.
13. Optical Computing, Short-term Course on Developments in and Applications of All Solid State Lasers, SERC School, Centre for Laser Technology, IIT Kanpur, India, January 9-14, 2006, D. Goswami
14. Short term course in Bioinformatics for College teachers from Chhatisgarh at IIT Kanpur 4-8, April 2005, R. Gurunath.
15. Short term course in Biology for students of Chhatisgarh at IIT Kanpur Feb. 2-13, 2006, R. Gurunath.
16. National Symposium on current trends in materials characterization (CTMC - 05, December 3-5, 2005, Sponsored by DST and CSIR, Cosponsored by six industries registered participants 120, S. Sundar Manoharan.
17. Co-coordinator, QIP short course on Pavement and Traffic Engineering, October 04-07, 2005, IIT Kanpur, 31 participants from academia participated, Das, A.

18. QIP Short-Term Course on Unsteady Flow in Open Channels (UFOC), Oct 24 - 29, 2005, IIT Kanpur, 13 persons attended this course, Mohapatra, P.K.
19. Murty, C.V.R., 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 Steel Structures at:
IIT Kanpur in May 2005 (43 participants under NPEEE)
on Seismic Evaluation and Strengthening of Structures at:
IIT Kanpur in August 2005 (37 participants for NPEEE)
on Seismic Design of Masonry Structures at:
IIT Kanpur in October 2005 (31 participants for NPEEE)
20. Murty, C.V.R., 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 professional architects and planners, and teachers of colleges of architecture on Architecture for Earthquake Resistance of Buildings/Architectural Considerations in Seismic Design of Buildings at:
SCET, Surat in October 2005 (30 participants under NPEEE)
21. Seismic Design of Concrete and Steel Structures, Sponsored by Reliance Engineering, Jamnagar, Gujarat, 23-25 January, 2006, Number attended 31, Rai, D.C.
22. 6. Seismic Design of Masonry Buildings, Sponsored by NPEEE for Engineering college teachers, IIT Kanpur, 3 - 7 October 2005, Number attended 31, Rai, D.C..
23. Seismic Evaluation and Strengthening of Buildings, Sponsored by NPEEE for Engineering college teachers, IIT Kanpur, August 8-12, 2005, Number attended 31, Rai, D.C..
24. Five invited lectures in the 4th PG Course on Space and Atmospheric Science of CSSTEAP (Center for Space and Technology Education in Asia and Pacific) conducted at Physical Research laboratory, Ahemdabad, August 2004, Tripathi, S.N.
25. QIP short term course on Fundamentals of Wired and Wireless Networks, May 9-13, 2005, Bhaskaran Raman and Kameswari Chebrolu.
26. Technology and operations Village Knowledge Centres Using the Digital Ecosystem Model, Workshop for KVK Scientists' UP Uttaranchal at IITK, PBCEC, March, 9-10 and 23-24, 2006, Chatterjee, Jayanta, Prabhakar TV, and Singh, Murat.
27. Knowledge Management and eLearning Workshop for College of Defence Management at IITK, PBCEC, February, 27-28, 2006. Chatterjee, Jayanta, Prabhakar, TV, and Singh, Y.N.
28. Organized a Workshop on System Administration at IIT Kanpur, October 2005, Dheeraj Sanghi.

29. QIP course on Overview of VLSI Design, Dec. 20-24, 2005, Kanpur. Short-term course on Organic Electronics and flat panel Displays, July 11-15, Kanpur. B. Mazhari.
30. Organization, Coordination, and part Instruction of Avionics Course for HAL candidates, K. S Venkatesh.
31. Design of DSP-Based Work Station, 16-21 May and 18-23 July, 2005, G.C.Ray.
32. Virtual Instrumentation using LabVIEW, Self-sponsored, IIT Kanpur, July 25-29, 2005, J John.
33. Two-day workshop on Recent Advances in Controls & Sensors sponsored by the Department of Electrical Engineering (IITK), IEEE UP Section, and INAE. March 24 & 25, 2006, R Potluri.
34. Lectures in course on QIP Short Term Course on Overview of VLSI Design, December 20-24, 2005, S. Qureshi.
35. Delivered lectures for CHiP programme, S. Qureshi
36. Electrical Characterization and Characteristics of MOS Devices with Ultrathin (0.5-1.5 nm) High-K Gate Dielectrics; Sponsored by The Electrochemical Society, USA at the 208th Meeting of The Electrochemical Society, 16-21 October 2005, Los Angeles, S.Kar.
37. Co-organizer of a Workshop on design and applications of meta-materials, 27 October 2005, IIT Kanpur, AR Harish.
38. QIP short-term course on Application of MATLAB® in Engineering, 2006, P.K. Kalra.
39. Delivered lectures on the short course on VLSI Systems, organized by the Department of Electrical Engineering, January 2006, Alope Dutta.
40. Organised QIP short term course on Fundamentals of Wired and Wireless Networks, IIT Kanpur, May 9-13, 2005, K. Chebrolu.
41. Gave lectures on Printable Electronics and in Organic Solar Cells Short term course on Organic Electronics and Flat Panel Displays 11-15 July, 2005 held at IIT Kanpur, S. S. K Iyer.
42. CHiPS Programme - remote classroom project. 26, 28-29 Sept. and 3-4 Oct., 2005, S. S. K Iyer.
43. Two lectures in QIP short course on Overview of VLSI Design on 20th-24th December, 2005, IIT Kanpur, S. S. K Iyer,
44. Organised a one day short course on Solar Cells on 30th December, 2005 at IIT Kanpur, S. S. K Iyer
45. Organized the International Workshop on Radio Frequency Identification (RFID) and Wireless Sensors, 11-13 November 2005, IIT Kanpur, sponsored by Indo-US Forum on Science & Technology, New Delhi; Department of Information Technology, S. Kar.

46. Conducted a Workshop on 'Communication Skills for Hospital Staff Dealing With Cancer Patients'. The Workshop was conducted for the hospital staff at Ratan Cancer Hospital, Kanpur on 25th February 2006. S. Dixit.
47. Workshop (invited) - Two 3-hr sessions (for CA trainees of Institute of Chartered Accountants of India, Kanpur - December 8, 2005, L. Krishnan.
48. 1) Team Building 2) Success in interviews.
49. Workshop/talk (invited) - One 3 -hr session (for CA trainees of Institute of Chartered Accountants of India, Kanpur - January 29, 2006, L. Krishnan. (1)Team Building
50. Delivered a Lecture on Non-Verbal Communication on 14 October 2005 to the participants of the QIP Short Term course on Recent Trends in Advanced Composites at IIT Kanpur, T. Ravichandran.
51. Delivered a lecture on Interview Skills on 18 September 2005 during VAARTA 2005 - A Dialog on Careers, organized by the Career counseling Cell at IIT Kanpur, T. Ravichandran.
52. A short-term course on Law and Economics during 9-16 October 2005 Department of Humanities and Social Sciences, IIT Kanpur, for engineering faculty and non-engineering academicians. The course has been sponsored by the AICTE under the Quality Improvement Programme at IIT Kanpur, P.M.Prasad, (Along with Prof. TVS Ramamohan Rao).
53. Short Term Course on Environmental Economics & EIA, sponsored by CDTE/QIP, IIT Kanpur, July 11-17, 2005, B. Rath.
54. Workshop (invited): Lucknow University, Department of Psychology: April 30, 2005. Interpersonal Skills and Team Building. - 3 hours (including exercises in Interpersonal Judgment, Team Building, Conflict-handling and Self- disclosure. L. Krishnan.
55. Workshop (invited): Personality assessment with Cattell's 16 PF (Training session). NABARD, Principal, NBSC, Lucknow. March 24, 2006, L. Krishnan.
56. Delivered two lectures on Overcoming Barriers to Communication and Body Language on 10 March 2006 at the Polplyex Corporation Limited, Noida, T. Ravichandran.
57. Conducted a SAP workshop for ICFAI business schools faculty, Gurgaon, Dec.2005, Veena Bansal.
58. Organized a two day workshop on Role of patent literature in technology development, at IIT Kanpur, Dec 1-2, 2005, sponsored by MCIT, Veena Bansal & A.K. Mittal.
59. Taught Software Project Management to Faculty of AICTE approved Engineering and Management colleges from July 1 -7, 2005 at IIT Kanpur, Veena Bansal.
60. Technology and operations for Village Knowledge Centres Using the Digital Ecosystem Model, Workshop for KVK Scientists' UP & Uttaranchal at IITK,

- PBCEC, March, 9-10 and 23-24, 2006, Chatterjee, Jayanta, Prabhakar, TV, and Singh, Murat.
61. Knowledge Management and eLearning Workshop for College of Defence Management at IITK, PBCEC, February, 27-28, 2006, Chatterjee, Jayanta, Prabhakar, TV, and Singh, Y.N.
 62. Manufacturing Execution System- Bridging strategies between Factory Automation and Business Automation Systems, IEEE sponsored Workshop at IITK, PBCEC, March, 25-26, 2006, Chatterjee, Jayanta.
 63. Targeted Innovation Deploying Prior Art Knowledge Base, presentation at MCIT Workshop organized by Prof. A.K. Mittal and Dr. Veena Bansal at IITK, PBCEC, Dec, 2005, Chatterjee, Jayanta.
 64. QIP sponsored short term course on Micromachining Oct. 25, 2006 - Oct. 29, 2006 at I.I.T. Kanpur, V.K. Jain.
 65. QIP sponsored, Recent trends in advanced Composites October 10-14, 2005 at IIT Kanpur. K.K. Kar. And J. Ramkumar.
 66. Organizing secretary of a two-day national workshop titled, Fuel Cells: Power Device of the Future, February 3-4, 2006 at IIT Kanpur, S. Khandekar and A.K. Saha.

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

1. Visited University of Maryland to collaborate on dilute magnetic semiconductors, S. Sundar Manoharan.
2. New Projects Received, Ab initio quantum simulations of protonic defects in mixed hydrogen bonded liquids, Agency : BRNS (DAE), Government of India, Amount : Rs. 16,03,500, A. Chandra.
3. SAP Labs, Bangalore. Workshop on SAP Modules. 3 days, 2005, Piyush Mehta.
4. Indo-Japan Joint research program worked on advanced composites machining from May to July 05 at Tamagawa University, Tokyo Japan, J. Ramkumar.
5. QIP for Central School physics teachers , Central School IITK, Dates: 12.05.05 & 13.05.05 (Lectures on vacuum tech. and cryogenics) Anjan K. Gupta.
6. Delivered lecture on 'Biotechnology by Lasers' in a short course on Developments & Applications of All Solid State Lasers held on January 09-14, 2005, course Coordinator Dr. Bansi Lal, Dr. A. Pradhan.

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

1. Alexnder von Humdoldt Fellow, German Aerospace Centre (DLR), Goettingen, Germany May-June 2005, T.G. Pai.
2. Recorded a 38 lecture course on Finite Element Method for NPTEL, C.S.Upadhyay.
3. Coordinated two 6-weeks courses for Executive Trainees from HAL from August to December, 2005, C.S.Upadhyay.
4. Coordinated a semester programme for Management Trainees from HAL from January to May, 2006, C.S.Upadhyay.
5. Technical committee member of 4-th Asian Aerosol Conference, Bombay December 2005. Reviewed the submitted papers for planning the technical sessions. Rajdip Bandyopadhyaya.
6. Participated in Winter academy 2005 held Jamshedpur as faculty for section polymers and polymeric fluids, Y.M. Joshi.
7. Member of National Activity on Aeroelasticity of gas turbines, Venkatesan, C.
14. 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.
15. Member, Technical Committee, Environmental Systems 2004-2007), International Association of Science and Technology for Development, IASTED, Jain, Ashu.
16. Member, Program Committee, Second Indian International Conference on Artificial Intelligence: IICAI2005, December 20-22, 2005, Pune, India, Jain, Ashu.
17. Session Organizer, Special Session (H35O)-Soft computing tools for hydrologic modeling at the AGU Fall Meeting 2005, December 5-9, 2005, San Francisco, California, USA, Jain, Ashu.
18. Session Organizer, Special Session (H35P)-Soft computing tools for hydrologic modeling at the AGU Fall Meeting 2005, December 5-9, 2005, San Francisco, California, USA, Jain, Ashu.
19. Session Organizer, Special Session on AI Applications to Hydraulic and Environmental Engineering (HEE2005, Second Indian International Conference on Artificial Intelligence: IICAI2005, December 20-22, 2005, Pune, India, Jain, Ashu.
20. Session Organizer, Special Session on AI Applications to Water Resources Engineering (WRE2005, Second Indian International Conference on Artificial Intelligence: IICAI2005, December 20-22, 2005, Pune, India, Jain, Ashu.
21. Conducted Summer Camp 2005 (June-July, 2005 at IIT Kanpur for UG students of various Engineering Colleges of India, Mohapatra, P.K..
22. Organized: CIV-ERE - Civil Engineering Armature Paper Presentation Competition, 17-19 February 2006, IIT-Kanpur. Papers invited from the undergraduate and graduate level students from all over the country, Prashant A.
23. Member of the Administrative Reforms Committee, Bihar Government, T V Prabhakar.
1. CAD/CAM, German technical cooperation, Finished in December 2005, N.V.

Reddy.

2. Organized Winter Academy 2005, G. Biswas, Winter Academy 2005 was organized in TATA STEEL premises, Jamshedpur during December 11-18, 2005. The purpose of the Academy is to motivate the bright students of different IITs in their research pursuit. The major objective is to let the students know what research is and what is exciting in innovation. TATA STEEL Jamshedpur, the Aditya Birla Group Mumbai and the German Ministry of Education and Science sponsored the Academy. A total number of 47 students from IIT Kanpur, IIT Kharagpur, IIT Bombay, IIT Delhi, IIT Guwahati and the University of Erlangen-Nuremberg, participated in the Academy. The seminar topics were in the areas of (i) Fluid Mechanics and Thermal Sciences (ii) Polymers and Dynamics of Polymeric Liquids and (iii) Semiconductors and Silicon Technology. A number of well-known Professors from Germany and various IIT s took part in the Academy.

INVITED LECTURES

1. New Insights on Delhi Iron Pillar - A Metallurgical Marvel, Bhabha Atomic Research Centre, Mumbai, 4 July 05, R. Balasubramaniam.
2. The Story of The Delhi Iron Pillar - A Metallurgical Marvel, Nehru Science Museum, Mumbai, 5 July 05, R. Balasubramaniam.
3. Delhi Iron Pillar: New Insights, Archaeology Department, Deccan College Pune, 6 July 05, R. Balasubramaniam.
4. Massive Forge Welded Iron Cannons of India, Salem Steel Plant, Salem, 5 September 05, R. Balasubramaniam.
5. Story of the Delhi Iron Pillar, Research and Development Centre for Iron and Steel, SAIL, Ranchi, 9 January 2006, R. Balasubramaniam.
6. Story of the Delhi Iron Pillar, Tata Steel, Jamshedpur, 11 January 2006, R. Balasubramaniam
7. Story of the Delhi Iron Pillar, National Metallurgical Laboratory, 12 January 2006, R. Balasubramaniam.
8. Story of the Delhi Iron Pillar, Indian Institute of Technology, Roorkee, 02 April 2006, R. Balasubramaniam.
9. The Saga of Ferocious Gunpowder and Mighty Cannons of India, Science Day Lecture of Chemistry Department, IIT Kanpur, 27 Feb 06, R. Balasubramaniam.
10. Metallurgy of Indian Coins through Ages, IIM Kanpur Chapter Annual General Body Meeting, IIT Kanpur, 30 April 06, R. Balasubramaniam.

11. Processing and characterization of nanostructured and biocompatible ceramics, International Advanced Center for Powder Metallurgy and New Materials, ARCI, Hyderabad, June, 2005, B.Basu.
12. Overview of Research Activity on Structural Ceramics at Laboratory for Advanced Ceramics at IIT-K, Energy Technology Division, NTPC, New Delhi, 13th August, 2005, B.Basu.
13. Processing and characterization of nanostructured composites and biocompatible materials, Department of Metallurgy and Materials Engineering, IIT-Madras, Chennai, 23rd August, 2005, B.Basu.
14. Processing and characterization of nanostructured ceramics, National seminar Advanced Characterisation Tools for Nanomaterials, IIT-Roorkee, 26rd August, 2005, B.Basu.
15. Processing and Characterisation of Bulk Nanostructured Ceramics and Biocompatible materials, ICAMDD, Goa, December 2005, B.Basu.
16. Fundamentals of Tribology and Materials for Tribological Applications, IT-BHU, Varanasi, March 4th, 2006, B.Basu
17. National seminar on Advances in Corrosion, Jadavpur University, Kolkata, 16th March, 2006, B.Basu .
19. Nanostructured Coating for Tribological and sensor Applications, IIT-Kharagpur-extension centre, kolkata, 25-26th March, B.Basu.
20. Thin Films for Sensors and Actuators Applications, National Thermal Power Corporation National Meeting, Noida (India), (September 2005), A. Garg.
21. National Conference on Materials for Electrical, Electronic & Magnetic Applications: Characterization & Measurements, September 2-3, 2005, Hyderabad (India), (September 2005), A.Garg.
22. Growth and Characterization of Bi-layered ferroelectric thin films, International Conference on Advances in Materials Design and Development, 14-16 December, Goa (India), (December 2005), A. Garg.
23. Multifunctional Oxide Thin Films, Condensed Matter Physics Workshop, Department of Physics, Indian Institute of Technology Kanpur (February 2006), A.Garg.
24. Application of TEM and SEM :A few Case Studies, CTMS, Kanpur, December, 2005, Gouthama.
25. Potential of Transmission Electron Microscope in Materials Characterization, RRL, Bhubaneswar, March, 2006, Gouthama.
26. CFD, Modelling and Steelmaking: Approach & Efforts, IIT, Kanpur, 2nd South East Asia USG, Fluent, Pune, 2005, D.Mazumdar.

27. Microgravity Sintering of Liquid Phase Sintering Systems, Presented in the Workshop on National Microgravity Research Program jointly organized by ISRO and IISC, Bangalore (June 05), A.Upadhyaya.
28. Modeling of Sintering Processes, Presented at METFORM Inc., Bangalore (June 05), A.Upadhyaya.
29. Invited to deliver the Daya Swaroop Memorial Lecture on 'P/M Processing of Advanced Composites, The Institution of Engineers, Kanpur Chapter, 2006, A.Upadhyaya