Publications and Outreach Activities

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309. On Optimal Design Of Compliant Mechanisms For Specified Nonlinear Path Using Curved Frame Elements And Genetic Algorithm, 30th Annual


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357. Effect of pentacene thickness on bottom and top contact organic thin film transistor, 12th International Display Workshop (IDW/AD’05, December 2005, Takamatsu, Japan, Dipti Gupta, M.Katiyar, Deepak.

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362. Role of Surface in the Light Induced Degradation of Nanocrystalline and Amorphous Silicon, N. P. Mandal, Abhishek Kumar And S. C. Agarwal, Proc. of IWPSD 2005, New Delhi, INDIA.


SEMINAR PRESENTED

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.
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, 2205, S.Mittal.
University, 801 22nd St. NW, Washington, DC 20052, USA June 17, 2005, S.Mittal.


15. Formosa Plastics Group, Maliliao Village, Yunlin country, Taiwan, December, 2005, J.P. Gupta.


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.

25. DMSRDE (Kanpur) A. Sharma
26. Banaras Hindu University (Varanasi), A. Sharma.
27. University of Western Ontario, 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.
44. (ii) Convenor: Chhattisgarh Swami Vivekanand Technical University, Bhilai,
12. Instrumentation, Debabrata Goswami, Symposium on Digital Fabrication 
50. BARC: Novel materials and structural chemistry division, Mumbai, April 2005, 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
60. Control of Organic Molecular Photoreactivity and Ordering in the Solid State, Department of Chemistry, Dresden University, Germany, Date: 05th April, 2005, J.N. Moorthy.
61. 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


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.


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.


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.


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.


91. IBM India Research Lab, Feb 2005, Pankaj Jalote.


95. Workflows, University of Mauritius, September 2005, Mauritius, T V Prabhakar.


101. Tutorial delivered at IEEE Power Engineering Society General Meeting in San Francisco., 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.


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


120. Signals and Systems on Sets: Towards a Non-numerical Theory of Systems: GE Bangalore (John F Welch Centre), Oct 7th , '05, 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.
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.
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.


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.


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.
144. Scope of Community Participation in Rainwater Harvesting, Bharat Vikash Parishad, Ramakrishna Sakha, Kanpur, May 23, 2005, B.Rath.
152. Significance of HRM in the Times of Downsizing and Restructuring, Ministry of Petroleum Training Centre, Mehmoudabad, Iran, 20th June, 2005, Rahul Varman.
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.
165. Comparative approaches to thesaurus Building Methodologies for Domain Knowledge aggregation ICRISAT, Hyderabad, June 14-15, 2005, Chatterjee, Jayanta, and Prabhakar, TV.
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).
Equations - Professor S.K. Lakshamana Rao endowment lecture at NIT
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.,
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,
183. Curious consequences of simple sequences, CMERI, Durgapur,
184. Dynamic Failure of Functionally Graded Composites Under High
Strain Rates, Central Ceramic and Glass Research Institute, Kolkata, December
12, 2005, (V. Parameswaran).


188. Optical Measurement Techniques, (B) Optical Tomography, lectures given at R & D (Engineers), Dighi, Pune, 22nd October 2005, (K. Muralidhar).


194. 4th International Conference on Smart Materials, Structures and Systems, July 2005, (Bishakh Bhattacharya).


199. CAD and Optimization in Molecular Docking, TU Berlin, 14 June 2005, (B. Dasgupta).


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).


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


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 (BiFeO3)x (PbTiO3)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.


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.


Traffic: from molecules to vehicles, Max-Planck Institute for Cools and Interface Research, Potsdam (Germany), 13 October, 2005, D. Chowdhury.


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.
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.

CONFERENCES ATTENDED OUTSIDE IIT KANPUR

8. Indo-German Winter Academy, Tata Steel, Jamshedpur, December, 2005, S. Mittal.
11. 11th International Workshop on Rotorcraft Dynamics and Aeroelasticity, Florida, USA, Oct. 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.
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.


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.


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.


25. Selective separation of cells: Supmacroporous 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.


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.


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 caenohabditis elegans nanoshomolog nos-2 to the primordial germ cells. XXIX All India Cell Biology Conference & Symposia, ITRC, Lucknow, Jan-17-20, 2006, K. Subramaniam.


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.


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.


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.
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.
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.
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.


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.


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.


80. Self-Assembled Metallomacrocycles Based on 1,1′- bis(1,8-napthyrid-2-yl)ferroene (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.


Powder Synthesized by Hydroxide Co-precipitation'; N. S. Gajbhiye, P. K. Pandey, Lyci George and Abishek Kumar, N.S. Gajbhiye.


94. Participated in the XItth 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 Reseach (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.


103. The Singapore international chemistry conference December 6-8, 2005, National University 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.


109. Spectroscopy and dynamics of molecules and clusters, International Center, Goa, April 2006 K. Srihari


111. East Midlands Mathematical Physics workshop on Molecules in Motion, School of Mathematical Sciences, University of Nottingham, June 2005, K. Srihari.


119. 12th Internaitonal conference on Biological Inorganic Chemistry, July 31 – August 5, 2005, University of Michigan, Ann Arbor, USA. Attended (my Ph D studentAkhilesh K. Singh presented our contributed paper), R.N. Mukherjee.


123. 8th National Chemistry Symposium, IIT-Bombay (February 3-5, 2006, S. Verma.


125. Delivered a plenary lecture at XX Carbohydrate Conference, Lucknow University 24-26th November 2005 Title: Newer Synthetic Approaches towards Glycosidase Inhibitors and Glycosamino Acids using Chemistry of Nitroaliphatics, Y.D. Vankar.

126. 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.

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. IICT, Hyderabad, October 2005, V.K. Yadav


133. Attended as one of the collaborators, representing India in a multinational 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.


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.


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.


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.


149. Hydro-2005, Tumkur, December 2005, three contributed papers, Srivastava, R.


156. XXVIII URSI General Assembly, New Delhi, Oct 2005, Bhaskaran Raman


158. FSTTCS ‘Foundations of Software Technology, 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
164. 13th Asia Pacific Software Engineering Conference, APSEC 2005, Taiwan, Dec2005, Co- Program Chair, Pankaj Jalote.
166. 11th International Computing Conference (COCOON 2005, Yunnan, China, Aug 2005, Shashank Kumar Mehta.
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
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.
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.
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.
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.
222. Kiski Ankhon Ka Tara Hai Tu?: Picturing Motherhood and Adoption in Popular Hindi Cinema, presented at the 26th Annual Meeting of the


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.


228. Chaired a Session: 11th International Conference on Productivity and Quality Research at IIT Delhi New Delhi, 12-15 December 2005, P.M. Prasad.


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.


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.


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.


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.


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 RCCAE) held in the Kogakuin University, Tokyo, Japan from August 2 to 4, 2005, S.K. Singh.


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.


254. Advisory Committee Meet on Electricity Futures by Multi-Commodity Exchange of India, Jan., 2006 Mumbai, Anoop Singh.


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.


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.


268. Eighth National convention on Student Quality Circle, Lucknow, 2-5 December, 2005, 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.


280. 20th summer conference on topology and its applications; July 10-14, 2005 Talk Order Convolution and vector-valued multipliers by U.B. Tewari.


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 minimizing 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)


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..


Annual Report 2005-2006


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.


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.


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.
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.
327. 18th National & 7th ISHMT-ASME Heat and Mass Transfer Conference, January 4 - 6, 2006, Guwahati, India,. Poster presentation, Sameer Khandekar.
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)
335. Workshop on Engineering challenges for Future Accelerators, IIT Delhi, March 13th 2006, Invited participant from IIT Kanpur (S. Bhattacharjee)
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)
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)
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.
11. Pickpacket v2: Network Monitoring Tool (Ready to be transferred.) Dheeraj Sanghi
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.
17. UHF RFID tag antenna, prototypes are undergoing testing at the partnering
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.
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.
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.
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.


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..


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, Srivilliputur, 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.
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.
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.
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 Maximillian 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-
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.
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.


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, Bhubaneswar 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
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.

(E) AWARDS AND HONOURS

7. Member, International Organizing Committee of ICCM07, Int. Conf. on Computational Methods, to be held in Hiroshima, JAPAN, 4-6, Apr. 2007, S. Mittal
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.
12. Member of Editorial Board, Indian Chemical Engineer (Journal of the Indian Institute of Chemical Engineers; 2006, A. Sharma.
18. Prof. R.D. Desai 80th Birthday Commemoration Award of 2004 was given early 2006, V. K. Singh.
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.
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.
34. Member national Technical Advisory Committee of Centre for Development of Advanced Computing (CDAC), R M K Sinha.
37. Elected Fellow of IEEE for contributions to education in power electronic applications to transmission and distribution systems, A. Ghosh
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.
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.
58. Member of Editorial Board, Journal: eSocial Sciences, Rahul Varman.

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.


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.


72. Presented the Ashwathanarayana keynote lecture during the annual Fluid Mechanics and Fluid Power Conference held at Osmanabad (Maharashtra), G. Biswas.


74. Invited to join Editorial Advisory Board Member of Transactions of the Indian Institute of 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.

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.
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.
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 Dec 2005, 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)

(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.
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. Sankararamakrishnan, Dr. S. Ganesh, Dr. Jamuna Subramaniam
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.
11. DST sponsored SERC School on Colloids and Interfaces, IIT Bombay, March 2006; gave 5 lectures; number of participants: 25, Ashutosh Sharma.
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)
   IIT Kanpur in August 2005 (37 participants for NPEEE)
   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)
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.

30. Organization, Coordination, and part Instruction of Avionics Course for HAL candidates, K. S Venkatesh.


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.


43. Two lectures in QIP short course on Overview of VLSI Design on 20th-24th December, 2005, IIT Kanpur, S. S. K Iyer.

44. Organized a one day short course on Solar Cells on 30th December, 2005 at IIT Kanpur, S. S. K Iyer.

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.


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).


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.


56. Delivered two lectures on Overcoming Barriers to Communication and Body Language on 10 March 2006 at the Polplyex Corporation Limited, Noida, T. Ravichandran.


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 & Uttarakhal at IITK.


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.


(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. Alexander von Humboldt Fellow, German Aerospace Centre (DLR), Goettingen, Germany May-June 2005, T.G. Pai.
3. Coordinated two 6-weeks courses for Executive Trainees from HAL from August to December, 2005, C.S.Upadhyay.
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.
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.
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 IITs 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.
3. Delhi Iron Pillar: New Insights, Archaeology Department, Deccan College Pune, 6 July 05, 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.


23. Multifunctional Oxide Thin Films, Condensed Matter Physics Workshop, Department of Physics, Indian Institute of Technology Kanpur (February 2006), A.Garg.


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.