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262. AMGA: An archive-based micro genetic algorithm for multi-objective optimization. Proceedings of Genetic and Evolutionary Computation conference (GECCO-2008), 12-16 July, 2008, Atlanta, USA, pp. 729-736, 2008, Tiwari, S., Koch, P., Fadel, G. and Deb, K.
263. A domain-specific crossover and a helper objective for generating minimum weight compliant mechanisms. Proceedings of Genetic and Evolutionary Computation conference (GECCO- 2008), Atlanta, USA, 1723-1724, 2008, Sharma, D., Deb, K., and Kishore, N. N.
264. Visualizing multi-dimensional Pareto-optimal fronts with a 3D virtual reality system. Proceedings of the International Multiconference on Computer Science and Information Technology, Volume 3, Wisła, Poland, 907-913, 2008, Madetoja, E., Ruotsalainen, H., Mönkkönen, V.-M., Hämäläinen, J., and Deb, K.
265. Deciphering innovative principles for optimal electric brushless D.C. permanent magnet motor design. Proceedings of the World Congress on Computational Intelligence (WCCI-2008), Hong Kong, Piscataway: IEEE Press, 2283-2290, 2008, Deb, K. and Sindhya, K.
266. Dimensionality reduction of objectives and constraints in multi-objective optimization problems: A system design perspective. Proceedings of the World Congress on Computational Intelligence (WCCI-2008), Hong Kong, Piscataway: IEEE Press, 3203-3210, 2008, Saxena, D. and Deb, K.
267. Towards generating diverse topologies of path tracing compliant mechanisms using a local search based multiobjective genetic algorithm procedure. Proceedings of the World Congress on Computational Intelligence (WCCI-2008), Hong Kong, Piscataway: IEEE Press, pp. 2004-2011, 2008, Sharma, D. and Deb, K., and Kishore, N. N.
268. Design and validation of a hybrid interactive reference point method for multi-objective optimization. Proceedings of the World Congress on Computational Intelligence (WCCI-2008), Hong Kong, Piscataway: IEEE Press, pp. 2914-2921, 2008, Sathe, M., Rudolph, G. and Deb, K.
269. Rheological Characterization and Performance Evaluation of a New Medium Developed for Abrasive Flow Finishing process, Proc. AIMTDR Conference held at IITM Chennai, 2008, Sankar M.R, Jain V.K, Ramkumar J. and Kar K. K.
270. Complex Shaped Micro- channel Fabrication using Electrochemical Spark, Proc. AIMTDR Conference held at IITM Chennai, 2008, Anjali Kulkarni, V.K.Jain, K.A Mishra and Prachi Saxena.
271. Multiobjective Optimization of Piezoelectric Actuator Placement for Shape Control of Plates using Genetic Algorithms, ASME Conference on Smart Materials & Intelligent Systems, SMASIS 2008-343, pp. 1-12, 2009, R. Kudikala, K. Deb and B. Bhattacharya.

272. Optimum discrete location of Shape Memory Alloy Wire for enhanced actuation of slender free-free beam, ASME Conference on Smart Materials & Intelligent Systems, SMASIS 2008-471, 2009, Banerjee, J. Badhothiya, B. Bhattacharya and A. K. Mallik.
273. Control of Instabilities of Pipes Conveying Pulsating Fluid using SMA based actuation, Proceedings of the ISSS, 2008, N. H. Sheik and B. Bhattacharya.
274. Real time integrity monitoring of composite laminate with magnetostrictive sensory layer, Proc. of SPIE, Vol. 7268, I. Kumar and B. Bhattacharya.
275. Parametric Study of Strain Hardening Behaviour of Glassy Polymers using Molecular Simulations, Proceedings of the ICTAM2008, ISBN 978-0-9805142-0-9, Mahajan D and Basu S.
276. On the invariance of structure-borne sound source unit. IISc Centenary - International Conference on Advances in Mechanical Engineering, Bangalore, India, July 2-4, 2008, P.Wahi and B.A.T. Petersson.
277. Infinite dimensional slow modulations in a delayed model for orthogonal cutting vibrations. ASME Engineering Systems Design and Analysis Conference, ESDA2008-59339, Haifa, Israel, July 7-9, 2008. K. Nandakumar, P. Wahi and A. Chatterjee.
278. Control of friction-induced vibration by time-delayed position feedback. 2009 International Conference on Vibration Problems, Kharagpur, India, January 19-22, 2009. A. Saha, and P.Wahi.
279. Nonlinear stability analysis of the Advanced Heavy Water Reactor (AHWR) near the linear stability boundary. 2009 International Conference on Advances in Mathematics, Computational Methods, and Reactor Physics, Saratoga Springs, New York, USA, May 3-7, 2009, V. Kumawat and P.Wahi.
280. Influence of wake structure on unsteady flow in an LP turbine blade passage, ASME Turbo Expo 2008, Paper No. GT2008-50809, Berlin, Germany, 2008, S. Sarkar.
281. Wake and Boundary Layer Interactions as Shape Changes from a Circular to an Elliptic Cylinder, FMFP 2008, pp.168-175, 2008, S. Sarkar and Sudipto Sarkar.
282. Large Eddy Simulation of a Separation Bubble, FMFP 2008, pp.176-184, 2008, S. Sarkar and N. K. Singh.

Humanities and Social Sciences

283. ICT Productivity Across Nations Using DEA and Malmquist Indices. Proceedings of the Fourth Annual APEA (Asia Pacific Economic Association) Meeting, Beijing, China, December 13-14, 2008 - S.K. Mathur.

284. Chiba Consuming America: The Local Toppling the Global in Postmodern Science Fiction. From Global to Glocal: The Future of American Studies-- Proceedings of the 43rd American Studies Association of Korea (ASAK)s International Conference, Seoul National University, Seoul, 24-25 October 2008, pp.134-140, T. Ravichandran.

Chemistry

285. Coherent control in multiphoton fluorescence imaging, SPIE Proc. 7183, 71832B, 2009, Arijit Kumar De, Debabrata Goswami.

Mathematics and Statistics

286. Rough set theory: a temporal logic view. In: Studies in Logic Vol. 15, Proc. Logic, Navya-Nyāya & Applications: Homage to Bimal Krishna Matilal, January, 2007, Kolkata, Eds. Chakraborty, M.K., Löwe, B., Mitra, M.N., Sarukkai, S. (College Publications, London), 1-20, 2008, Mohua Banerjee and M.A. Khan.
287. Multiple-source approximation systems: membership functions and indiscernibility. In: LNAI 5009, Proc. Rough Sets and Knowledge Technology (RSKT 2008), May, 2008, Chengdu, China, Eds. Wang, G., Li, T., Grzymala-Busse, J., Miao, D., Skowron, A., Yao, Y., Springer-Verlag, 80-87, 2008, M.A. Khan and Mohua Banerjee.
288. Variational analysis in bilevel programming, Mathematical Programming and Game Theory for Decision Making, Proceedings of the International Symposium on Mathematical Programming and Game Theory for Decision Making : Indian Statistical Institute, Delhi, Dec. 10-11, 2007, World Scientific, Singapore, 257-277, 2008, S. Dempe, J. Dutta and B. S. Mordukhovich.
289. On the existence of constrained labelling of locally finite graphs. Proceedings of the Thirty-Eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. Congr. Numer. 187, 2007, 132-144, B. Bhattacharjya, A. K. Lal.
290. Graph Structure via its Laplacian matrix, The Mathematics Student, Vol. 76, Nos. 1-4, 2007, 203-216, A. K. Lal, S. Pati and K. L. Patra.
291. On Generalized Hamming Weights and the Covering Radius of Linear Codes, LNCS, 4851/2007, 347-356, H. Janwa and A. K. Lal.
292. Stochastic comparisons and aging properties of multivariate reversed frailty models. Proceedings of International Conference on Mathematical Sciences-2007 (ICMS-2007) Bangi-Putrajaya, Malaysia, 2007, 993-1015, Neeraj Misra, Nitin Gupta and R. D. Gupta.

293. Three point Stationary and Non-Stationary Subdivision Schemes, appeared in the proceedings of Geometric Modeling and Imaging, IEEE Computer Society, pp. 3-8, 2008, Sunita Daniel, P. Shunmugaraj.

Physics

294. Temperature Dependent Tunneling study of $\text{La}_{0.625}\text{Ca}_{0.375}\text{MnO}_3$ Thin Films, J. Phys.: Conf. Ser. 150, 042183, 2009, Udai Raj Singh, S. Chaudhuri, R. C. Budhani, and Anjan K. Gupta.
295. A compact low temperature scanning tunneling microscope, J. Phys.: Conf. Ser. 150, 012007, 2009, Anjan Kumar Gupta, Jaivardhan Sinha, Shyam Kumar Choudhary.
296. Time-independent excited-state density-functional theory, AIP Conference Proceedings 1108, 54, 2009, M.K. Harbola, Md. Shamim, P. Samal, M. Rahman, S. Ganguly and A. Mookerjee.
297. Time-Dependent Density Functional Theory Calculation of van der Waals Coefficient of Metal Clusters, AIP Conference Proceedings 1108, 114, 2009, A. Banerjee, M.K. Harbola, A. Chakrabarti and T.K. Ghanty.
298. Investigating the effect of blind hole pinning on the magnetization response of a superconductor, Proceedings of the DAE solid state physics symposium Vol. 53, 949, 2008, Gorky Shaw, Shyam Mohan, Jaivardhan Sinha, Pabitra Mandal, S. S. Banerjee.
299. Nonlinearities in the moving elastic vortex state of 2HNbSe_2 , Proceedings of the DAE solid state physics symposium Vol. 53, 929, 2008, Shyam Mohan, Jaivardhan Sinha, S. S. Banerjee, A. K. Sood, S. Ramakrishnan, A. K. Grover.
300. Magnetic domain patterns produced in a magnetic tape with Femtosecond laser pulse irradiation, Proceedings of the DAE solid state physics symposium Vol. 53, 1211, 2008, Jaivardhan Sinha, Shyam Mohan, S. S. Banerjee, Subhendu Kahaly and G. Ravindra Kumar.
301. ^{11}B NMR study of possible heavy fermion compound $\text{CePt}_2\text{B}_2\text{C}$, AIP Conference Proceedings, Vol. 1003, 213-15, 2008, Sarkar, R.; Ghoshray, A.; Pahari, B.; Ghoshray, K.; Anand, V.K.
302. Antiferromagnetism in Fe-doped PrRh_2Si_2 : a Mössbauer Study; Hyperfine Interact , V. 184, 2008, 173, V.K. Anand, B. Pandey, Z. Hossain, H.C. Verma, C. Geibel.
303. Comparing spectral fluctuations between Laser and Lamp tissue auto fluorescence data, Saratov Fall Meeting SFM08 and XII International School for Junior Scientists and Students on Optics, Laser Physics & Biophotonics, Saratov, Russia, September 23-26, 2008, A. Gharekhan, D. Rath, M.B. Sureshkumar, P. K. Panigrahi, A. Pradhan.

304. **Comparing spectral features of normal and cancerous human breast tissues with laser and lamp as excitation sources, Proceedings of SPIE 09, Biomedical Optical Spectroscopy, San Jose, USA, Jan 2009, A. Gharekhan, D. Rath, A. Oza, A. Pradhan M.B. Sureshkumar, P. K. Panigrahi.**
305. Characterizing Fluorescence Spectral features of Tissues through Principal Component Analysis, National Laser Symposium, New Delhi, India, 2008, A. Gharekhan, D. Rath, A. Oza, M.B. Sureshkumar, P. K. Panigrahi, A. Pradhan.
306. Potential of Principal Component Analysis (PCA) for discriminating normal against dysplastic state in cervical tissues, National Laser Symposium (NLS08), New Delhi, India, 2009, Prashant Shukla, Binay Bhushan and Asima Pradhan.
307. Polarized Fluorescence Studies in Breast Tissue. CLBAS-2009, Department of Physics, Shantiniketan, West- Bengal, Feb 14-17, 2009, Rajbeer Singh, Dharitri Rath, Prashant Shukla, Asima Pradhan.
308. Sensitivity of Mueller decomposition images for highly scattering media, MMSETLSA 09, Allahabad, 2009, Prashant Shukla, Prabodh Kr. Pandey and Asima Pradhan.
309. Study of ion energy distribution in a microwave plasma ion source for focused ion beams, Proceedings 23rd National Symposium on Plasma Science and Technology (PLASMA 2008), pp. 215 - 217, BARC, Mumbai, December 10-13, 2008, Jose V. Mathew Abhishek Chowdhury, Shail Kumari, Samit Paul and S. Bhattacharjee.
310. Standing-wave interaction with an anisotropic plasma column, Proceedings 23rd National Symposium on Plasma Science and Technology (PLASMA 2008), 91-94, BARC, Mumbai, December 10-13, 2008, Indranuj Dey and Sudeep Bhattacharjee.
311. Development of a microwave plasma based negative ion source, Proceedings 23rd National Symposium on Plasma Science and Technology (PLASMA 2008), 113-115, BARC, Mumbai, December 10-13, 2008, Debaprasad Sahu and Sudeep Bhattacharjee.
312. Study of electromagnetic waves in a bound anisotropic plasma using the finite difference time domain (FDTD) technique, Proceedings 23rd National Symposium on Plasma Science and Technology (PLASMA 2008), BARC, Mumbai, 109-111, December 10-13, 2008, Mani Chandra, Udit Khanna and Sudeep Bhattacharjee.
313. Generation of multiple focused ion beamlets from a compact microwave driven plasma ion source, Proceedings 23rd National Symposium on Plasma Science and Technology (PLASMA 2008), BARC, Mumbai, 115-118, December 10-13, 2008, Abhishek Chowdhury, Jose V. Mathew and S. Bhattacharjee.

314. Pre-discharge electron dynamics in a gas in the presence of linearly and circularly polarized electromagnetic wave, Proceedings 23rd National Symposium on Plasma Science and Technology (PLASMA 2008), BARC, Mumbai, 126-128, December 10-13, 2008, Samit Paul, Indranuj Dey and S. Bhattacharjee.
315. Subnanosecond electron transport in polarized electromagnetic waves and the quasi steady state interpulse plasma, Proceedings 22nd National Symposium on Plasma Science and Technology (PLASMA 2007), Institute for Plasma Research (IPR) and Plasma Science Society of India (PSSI), pp. 3, December 6, 2007, S. Bhattacharjee.
316. Black rings in a R-S Brainworld, , Proceedings of the Workshop on Physics of Extra Dimensions, PWED 2008, Center for Theoretical Studies, Indian Inst. of Technology, Kharagpur, 2008, Anurag Sahay and Gautam Sengupta.
317. Energy transfer in anisotropic MHD turbulence, in the proceedings of PAMIR International Conference on Fundamental and Applied MHD, Presqu'île de Giens - France, September 8 - 12, 2008, B. Teaca, M. K. Verma, P. Buratini, B. Knaepen, M. Kinet, D. Carati.

CONFERENCES ATTENDED OUTSIDE IIT KANPUR

Aerospace

1. Effect of Mach Number on Supersonic Wrap Around Fin Aerodynamics, National Conference on Advances in Armament Technology, ARDE, Pashan, Pune, India, Peyada, N. K., Sen, A., Dutta, G. G., Singhal, A., Rajan, K. M., Raj, A. and Ghosh, A. K.
2. 5-Degree of Freedom Dynamic Rig for Wind Tunnel Tests of Aerospace Vehicles, National Conference on Advances in Armament Technology, ARDE, Pashan, Pune, India, Sen, A., Peyada, N. K., Subrahmanyam, S., Wahi, P. and Ghosh, A. K.
3. Wind Tunnel Study of A Grid Fin Stabilizedguided Projectile, AIAA Atmospheric Flight Mechanics Conference and Exhibit, Honolulu, Hawaii, USA, Misra A., Singhal A., Ghosh A.K. and Ghosh K.
4. Cascade Fins - An Alternate Tail Stabilization Unit, AIAA Atmospheric Flight Mechanics Conference and Exhibit, Honolulu, Hawaii, USA, Misra A., Ghosh A.K. and Ghosh K.
5. Aerodynamic Parameter Estimation using New Filtering Technique Based on Neural Network and Gauss-Newton Method, ARMS 2008, ARDE, Pashan, Pune, Peyada, N. K. and Ghosh, A. K.
6. Neural Networks Based Approach to Model Lattice Fin Aerodynamics, INSARM-2008, National Seminar on Aerospace and Related Mechanism at ARDE Pune, Pune, Misra A., Uma P., Singhal A., Ghosh A.K. and Ghosh K.
7. International conference on creep and fatigue (CF-5), IGCAR, Kalpakkam, S. Mahesh.
8. International Conference on Aerospace Science and Technology (INCAST), NAL, Bangalore, Venkatesan C.
9. 34-th European Rotorcraft Forum, Liverpool, UK, Venkatesan C.
10. International Conference and Exhibition on Total Engineering, Analysis & Manufacturing Technologies, Bangalore, Venkatesan C.
11. INDUS MAV Workshop, NAL, Bangalore, Venkatesan C.

Biological Science and Bio-engineering

12. HUGO 13th Human Genome Meeting, held at International Convention Centre, Hyderabad, Ganesh S.

13. 1st International Stem Cell Summit India - 2008, IIT Chennai, Amitabha Bandyopadhyay.
14. Young Investigators' Meeting Estuary Island, Kerala, Amitabha Bandyopadhyay.
15. Young Investigators' Meeting Estuary Island, Kerala, Jonaki Sen.
16. Papers presented, Joint International Meeting of Neurogastroenterology and Motility, Lucerne, Switzerland, Anupam Pal.
17. Local longitudinal muscle contractions of the stomach during peristalsis in Wistar rats, Anupam Pal, D. Verma.
18. Papers presented, Joint International Meeting of Neurogastroenterology and Motility, Lucerne, Switzerland, Anupam Pal.
19. Assessment of in vivo gastric muscle stress through finite element analysis of concurrent magnetic resonance imaging and fiber optic pressure measurement during gastric emptying, T. Rawal, V. Pagaria, S. H. Rizvi, M. R. Fox, A. Steingoetter, P. Boesiger, M. Fried, W. Schwizer, Anupam Pal.
20. 1st Biennial Congress of Asian Neurogastroenterology and Motility Association, Seoul, Korea, Anupam Pal.
21. Analysis of local longitudinal muscle contractions of the stomach during peristalsis in Wistar rats, D. Verma, Anupam Pal.
22. Analysis of gastric flow using computer simulation, Pal, J. G. Brasseur, B. Abrahamsson.
23. Understanding root-knot nematode development using RNAi, Fifth International Congress of Nematology, Brisbane, Australia, B.C. Yadav, Y.S. Bibin and K. Subramaniam.
24. C. Elegans proteins puf-8 and mex-3 promote germline stem cell mitosis, Germ cells, October 1-5, 2008, Cold Spring Harbor Lab., Cold Spring Harbor, New York, USA, 2008, M. Ariz, M. Rana and K. Subramaniam.

Chemical

25. Elastic instability and pattern formation in confined soft elastomeric films, American Physical Society Meeting, Pittsburgh. Presented invited paper in the session on Elastic Instability and Pattern Formation in Confined Soft Elastomeric Films, A Ghatak.
26. Two phase flow in multi-helical micro-channels, Indo-German Workshop on Micro-reaction Technology, Pune. SR Ganneyoyina, A Ghatak.
27. 3rd International Conference on Safety and Environment in Process Industry, Rome, Italy, D Kunzru.
28. INTERFACE-08 held at HBTI-Kanpur, PK Bhattgacharya.

29. Axial segregation in horizontally vibrated granular materials: A numerical study, International association for computer methods and advances in geomechanics, Goa, 2008, A Bhateja, JK Singh, and I Sharma.
30. Critical properties of fluids in nanopores, CHEMCON 2008, SK Singh, S Jana, JK Singh.
31. Interface mixing behaviour of Lennard-Jones FCC (100) thin film, AICHE, Annual Meeting, P Gazali, SK Kwak, JK Singh.
32. Thermophysical properties of confined fluids, AICHE, Annual Meeting, SK Singh, S Jana, SK Kwak JK Singh.
33. Surface phase morphological transitions on functional surfaces, AICHE, Annual Meeting, JK Singh and J Saha.
34. Wetting transitions on functional surfaces, Nanomem, FORTH-ICT, Greece, JK Singh.
35. Contributed oral presentation at the International Congress on Rheology at Monterey, California, USA, V Shankar.
36. Lattice Boltzmann study of velocity, temperature, and concentration in micro-reactors, ICMES-2008, Amsterdam (Netherlands), N Verma, D Mewes and A Luke.
37. 25th Annual meeting of Polymer Processing Society, Goa, YM Joshi.
38. Annual Meeting of the Indian National Academy of Engineering, Goa, Y M Joshi.
39. 78th Annual Session of the National Academy of Sciences, Chandigarh, YM Joshi.
40. The XVth International Congress on rheology, monterey (California), de Gennes days symposium, Paris, YM Joshi.

Civil

41. National Conference HYDRO 2008, MNIT Jaipur, Rajasthan, Jain, A.
42. Brainstorming Workshop on Application of Advanced Soft Computing Techniques in Geospatial Data Analysis, IIT Bombay, Mumbai, Jain, A.
43. Water Industry Alliance Awards Ceremony, Adelaide Convention Center, Adelaide, Australia, Jain, A.
44. Living Laboratories Technological Innovation in Wetland Management, The Vines Room, National Wine Centre, University of Adelaide, Adelaide, Australia, Jain, A.
45. REACH2008 Symposium, Khajuraho, M.P, Organized by IIT Kanpur, Jain, A.
46. Track Chair for Infrastructure Session in the National Frontiers of Engineering Symposium-3, IIT Madras, Das, A.

47. Earthquake Research Institute, University of Tokyo, as Visiting Scientists under a fellowship awarded by ERI to work with Prof. Satake, J. N. Malik.
48. ESC (European Seismological Commission) - at Crete, Greece, J. N. Malik.
49. Earthquake Research Institute, University of Tokyo, Japan under the joint INDO-JAPAN project on Paleoseismology of Andaman Island with Prof. Satake, sponsored by DST New Delhi and JSPS, J. N. Malik.
50. International Symposium on the Restoration Program from Giant Earthquakes and Tsunamis, Phuket, Thailand, J. N. Malik.
51. ESC (European Seismological Commission) - at Crete, Greece, Dikshit, O.
52. National Conference on Communications, I.I.T. Guwahati; Chaired a session, presented a contributed paper, Adrish Banerjee.
53. Presented paper entitled On the optimality of sliding window Lempel - Ziv algorithm with side information, International Symposium on Information Theory and its Applications, ISITA 2008, Auckland, New Zealand, R. K. Bansal.
54. IFAC World Congress, Seoul, Laxmidhar Behera.
55. World Congress on Computational Intelligence (WCCI), in Hongkong, Laxmidhar Behera.
56. IEEE Multi-Conference on Systems and Control, San Antonio, USA, Laxmidhar Behera.
57. Fifteenth National Conference on Communications, IIT Guwahati, A. K. Chaturvedi.
58. Chair, Technical Committee, IEEE Conference and Exhibition on Control, Communication and Automation, INDICON 2008, IIT Kanpur, A. K. Chaturvedi.
59. Presented peer reviewed paper at the National Conference on Communications (NCC 2009), IIT Guwahati, India, Rajesh M. Hegde.
60. Presented two contributed papers at IEEE-IECON 08, Orlando, Florida, US, Parthasarathi Sensarma, Rajesh M. Hegde.
61. 3rd National Frontiers in Engineering, IIT Madras. Theme IV - Infrastructure, S. N. Singh.
62. Colloquium for Humboldt Alumni in the Engineering Sciences in India, New Delhi / INDIA, S. N. Singh.
63. IEEE Conference & Exhibition on Control, Communication and Automation, INDICON 2008, IIT Kanpur, S. N. Singh.
64. 15th National Power System Conference, IIT Bombay (Mumbai), S. N. Singh.
65. GRIDTECH 2009 Conference and Exhibition, PGCIL, New Delhi, S. N. Singh.
66. IEEE Power Engineering Society, General Meeting, Pittsburg, USA, S. N. Singh.

67. Power Systems Conference and Exhibition (PSCE 09), Seattle, Washington USA, S. C. Srivastava.
68. North American SynchroPhasor Initiative (NASPI) Working Group Meeting during at Electric Power Research Institute (EPRI) office, Charlotte, NC, USA, S. C. Srivastava.

Computer Science

69. Formal Methods Update Meeting, held at TRDDC, Pune, Foundations of Software Technology and Theoretical, Anil Seth.
70. Computer Science, held at Indian Institute of Science, Bangalore, India, Anil Seth.
71. International Conference on Scientific and Statistical Database Management (SSDBM) at Hong Kong, China, Arnab Bhattacharya.
72. 15th IEEE International Symposium on High-Performance Computer Architecture, Raleigh, NC, USA, Mainak Chaudhuri.
73. 10th Asia Pacific High-Performance Computing Conference, Kaohsiung, Taiwan, Mainak Chaudhuri.
74. Foundations of Computer Science, Philadelphia, Manindra Agrawal.
75. Indian Algorithms Seminar, Khandala, Manindra Agrawal.
76. Foundations of Software Technology and Theoretical Computer Science, Bangalore, Manindra Agrawal.
77. ICDCIT, New Delhi, R.K. Ghosh.
78. Intl Conf of Parallel Processing, Portland, Oregon, Sanjeev K. Aggarwal.
79. Asia Academic Forum, Taipei, Taiwan, Sanjeev K. Aggarwal.
80. High Performance Computing, Bangalore, India, Sanjeev K. Aggarwal.
81. Intl Conf on Distributed Systems and Internet Technologies, Delhi, India, Program Chair, Sanjeev K. Aggarwal.
82. India Software Engg Conference, Pune India, Session Chair, Sanjeev K. Aggarwal.
83. 20th Canadian Conference on Computational Geometry (CCCG'08), McGill University, Montreal, Canada, Shashank K Mehta.
84. Dagstuhl Seminar 08341 on Sublinear Algorithms, Dagstuhl, Germany, Sumit Ganguly.
85. Computer Science Conference of Russia (CSR), Moscow, Russia, Sumit Ganguly.
86. Frontiers of Algorithmics, Changsha, China, Sumit Ganguly.
87. International Conference on Scientific and Statistical Database Management, Hong Kong, contributed paper, Sumit Ganguly.
88. Indian Algorithms Seminar, Khandala, Sumit Ganguly.

89. International Symposium on Automata, Algorithms and Computation, Gold Coast, Australia, contributed paper, Sumit Ganguly.
90. Computing: The Australasian Symposium (CATS), Wellington, New Zealand, contributed paper, Sumit Ganguly.

Electrical

91. National Conference on Communications, I.I.T. Guwahati; Chaired a session, presented a contributed paper, Adrish Banerjee.
92. Presented paper entitled On the optimality of sliding window Lempel - Ziv algorithm with side information, International Symposium on Information Theory and its Applications, ISITA 2008, Auckland, New Zealand, R. K. Bansal.
93. IFAC World Congress, Seoul, Laxmidhar Behera.
94. World Congress on Computational Intelligence (WCCI), in Hongkong, Laxmidhar Behera.
95. IEEE Multi-Conference on Systems and Control, San Antonio, USA, Laxmidhar Behera.
96. Delivered a plenary talk Limited Feedback in Wireless Communication Systems, at the Fifteenth National Conference on Communications, IIT Guwahati, A. K. Chaturvedi.
97. Chair, Technical Committee, IEEE Conference and Exhibition on Control, Communication and Automation, INDICON 2008, IIT Kanpur, A. K. Chaturvedi.
98. Presented peer reviewed paper at the National Conference on Communications (NCC 2009), IIT Guwahati, India, Rajesh M. Hegde.
99. Presented two contributed papers at IEEE-IECON 08, Orlando, Florida, US, Parthasarathi Sensarma.
100. 3rd National Frontiers in Engineering, IIT Madras. Theme IV - Infrastructure, S. N. Singh.
101. Colloquium for Humboldt Alumni in the Engineering Sciences in India, New Delhi / INDIA, S. N. Singh.
102. IEEE Conference & Exhibition on Control, Communication and Automation, INDICON 2008, IIT Kanpur, S. N. Singh.
103. 15th National Power System Conference, IIT Bombay (Mumbai), S. N. Singh.
104. GRIDTECH 2009 Conference and Exhibition, PGCIL, New Delhi, S. N. Singh.
105. IEEE Power Engineering Society, General Meeting, Pittsburg, USA, S. N. Singh. (Panelist)
106. 2009 Power Systems Conference and Exhibition (PSCE09), Seattle, Washington, USA, S. C. Srivastava.

107. North American SynchroPhasor Initiative (NASPI) Working Group Meeting at Electric Power Research Institute (EPRI) office, Charlotte, NC, USA, S. C. Srivastava.

Industrial & Management

108. Reliability in Portfolio Optimization using Uncertain Estimates, 6th Computational Management Science, University of Geneva, Geneva, Switzerland, Presenter, R. Seth, R. N. Sengupta, P. Winker
109. 32nd Indian Social Science Congress, Jamia Millia Islamia New Delhi, Chairman Multidisciplinary Thematic Research Committee: Labour In Organized And Unorganized Sectors, Rahul Varman
110. 32nd Indian Social Science Congress, Jamia Millia Islamia New Delhi, Varman, Rahul & Chakrabarti, Manali.
111. International Conference on Social Network Analysis, Mumbai: Tata Institute of Social Sciences, D. Pattanaik and J. Chatterjee.
112. A session on Data Mining at the IEEE International conference on Systems, Mann and Cybernetics at Singapore, B. Chandra.
113. International Conference on Neural Information Processing at Auckland, New Zealand, B. Chandra.
114. IFORS conference held at Johannesburg, B. Chandra.

Materials and Metallurgical

115. Processing and Fabrication of Advanced Materials, Delhi, K. Balani.
116. Gordon Research Conference on Aqueous Corrosion New London, R. Balasubhramaniam.
117. International Workshop on Corrosion Evaluation and Mitigation Defense Institute of Advanced Technology, Pune, R. Balasubhramaniam.
118. Conference on Failure Investigation: A Pathway for Railway Safety Research Designs and Standards Organization, Lucknow, R. Balasubhramaniam.
119. International Conference on Processing and Fabrication of Advanced Materials XVII New Delhi, R. Balasubhramaniam.
120. International Conference on Frontiers of Metallurgy and Materials Technology Hyderabad, R. Balasubhramaniam.
121. International conference on Processing and Fabrication of Advanced Materials -XVII, New Delhi, Krishanu Biswas.
122. DAE-BRNS 2nd International Symposium on Materials Chemistry, M. Katiyar.

123. DST's Pan-IIT Solar-research Initiative Workshop at IIT Bombay, M. Katiyar.

Mechanical

124. Technex 2008, 2nd Global Automotive Technology Conference, New Delhi, A.K. Agarwal.
125. SAE World Congress, Detroit, USA, A.K. Agarwal.
126. Indo-US Frontiers of Engineering, Irvine, CA, A.K. Agarwal.
127. Petrotech 2009, Delhi, A.K. Agarwal.
128. Winrock International 6th International Conference on Biofuels-2009, New Delhi, A.K. Agarwal.
129. ASME Conference on Smart Materials, Adaptive Structures & Intelligent Systems (SMASIS 2008), Maryland, B. Bhattacharya.
130. Fluid Mechanics and Fluid Power Conference 2008, held at PESIT Bangalore, K. Muralidhar.
131. IACMAG, Goa, I. Sharma.
132. Indo-Russian workshop on Topical Problems in Solid Mechanics, Goa, Contributed paper, I. Sharma.
133. Discussion on Contribution of Women in Science and Strategies and Methods to Promote women towards Science Education, Anjali K.
134. National Women's Science Congress, at Karnataka State Women University, Bijapur, Anjali K.
135. 2nd Intl. and 23rd AIMTDR Conf., IIT Madras, Anjali K.
136. Interquadrennial Conference of the International Congress on Fracture, IISc Bangalore, P. Venkitanarayanan
137. Indo-Russian Workshop on Topical Problems in Solid Mechanics, BITS, Goa, P. Venkitanarayanan.
138. 2008 ASME Summer Heat Transfer Conference, Jacksonville, Florida, USA, P. Venkitanarayanan.
139. International conference on creep and fatigue (CF-5), IGCAR, Kalpakkam, S. Mahesh.
140. Characterization of plasma in Micro-EDM discharge using Optical Spectroscopy, ICOMM - 08, Carnegie Mellon, USA, Nagahanumaiah, J.Ramkumar, Nick Glumac, S.G.Kapoor, R.E.De vor.
141. Understanding Gap Phenomena in Micro EDM process using underwater acoustics, IWMF 2008, Chicago, USA, J. Ramkumar, Anuj Kumar Garg, Nagahanumaiah, J.Ramkumar, Nick Glumac, S.G.Kapoor, R.E.De vor.
142. World Congress on Computational Intelligence (WCCI-2008), Hong Kong, K. Deb.
143. Genetic and Evolutionary Conference (GECCO-2008), Atlanta, USA, K. Deb.

144. Parallel Problem Solving from Nature (PPSN-2008), Dortmund, Germany, K. Deb.
145. Biologically Inspired Memetic Optimization (BIOMA-2008), Ljubliana, Slovenia
146. Simulated Evolution and Artificial Learning (SEAL-2008), Melbourne, Australia, K. Deb.
147. Dagstuhl Seminar, Saarbrucken, Germany, K. Deb.
148. Evolutionary Multicriterion Optimization (EMO-2009), Nantes, France, K. Deb.
149. 1st Int. Conference on Abrasive based Processes held at Churchill College, Cambridge (UK), V. K. Jain.
150. 23rd AIMTDR conference held at IIT Madras, Chennai, V.K. Jain.
151. Indo - US workshop held at PSG College, Coimbatore, V.K. Jain.
152. Inter Quadrennial International Conference on Fracture at Bangalore India, August 2008, Basu S.
153. XXII international Conference on Theoretical and Applied Mechanics at Adelaide, Australia, Basu S.
154. IISc Centenary - International Conference on Advances in Mechanical Engineering, Bangalore, P. Wahi.
155. Indo-Russian workshop on Tropical Problems in Solid Mechnics, BITS Pilani, Goa Campus, Zuarinagar, Goa, P. Wahi.
156. 2009 International Conference on Vibration Problems, Kharagpur, P. Wahi.

Humanities and Social Sciences

157. Fifth All India Conference of Indian Association for Social Sciences and Health, Xavier Institute of Management, Bhubaneswar, A.K. Sharma and Rita Singh.
158. Workshop on Orientation of the Selected Mapping Agency and SACS/TSU, National Aids Control Organization, Ministry of Health and Family Welfare, Chandralok Building, Janpath, New Delhi, A.K. Sharma.
159. International Conference on Fundamental and Transnational Research on HIV/AIDS - Global Perspectives, ISSRF and ICMR, ITC Grand Sheraton Hotel and Towers, Mumbai, Sonal Mobar, Ashish Kumar Mishra, A.K. Sharma, and Rita Singh.
160. 30th Annual Conference of IASP, ISEC, Bangalore, Ashish Kumar Mishra and A. K. Sharma.
161. National Seminar on Methodological Issues in Measuring Millennium Development Goals in Districts of India, International Institute for Population Sciences, Mumbai, A.K. Sharma and Rita Singh.

162. Sixth Annual Conference of Indian Association for Social Sciences and Health (IASSH), School of Social Sciences & International Studies, Pondicherry University, Pondicherry, Ashish Kumar Mishra and A. K. Sharma.
163. Workshop on Productivity Measurements jointly organized by Swiss Re and CDE (Centre for Development Economics), DSE (Delhi School of Economics) at the DSE, S.K. Mathur.
164. From 'Spiderman' to 'Nagraj': The Nativisation of the American Superhero. International Comics Conference 2009 organised by CPRACISIS, Thrissur, Kerala, Suchitra Mathur.
165. The Superhero Goes Native: 'Translating' Spiderman for an Indian Audience. Annual IACLALS International Conference, Karnataka University, Dharwad, Suchitra Mathur.
166. International Conference on Translation and Postcolonialities, organized by IACLALS (Indian Association for Commonwealth Literature and Language Studies) and Department of English, Karnataka University, Dharwad, Mini Chandran.
167. 18th Annual Conference of National Academy of Psychology,- India, IIT Guwahati, Braj Bhushan.
168. World Intellectual Property Organization (WIPO) in cooperation with the Department of Industrial Policy and Promotion (DIPP), Government of India and the Federation of Indian Chambers of Commerce and Industry (FICCI), New Delhi, P.M. Prasad.
169. Maintaining Sustainable Flows in River Ganga: Approach and Methodology Workshop, New Delhi; and IIT Kanpur- P.M. Prasad.
170. Water logging, Land Development & Drainage in Agriculture, State Water Resources Agency (SWaRA), PACT and Irrigation Department UP, Lucknow, P.M. Prasad.
171. Participated in Indo-German Symposium on Education and Research in Sustainability, IIT Madras, Chennai, P. M. Prasad.
172. The challenge of renewing the social sciences and humanities in India, National Seminar, Higher Education:Policies and Perspectives, Department of Political Science, Osmania University, Amman Madan.
173. Questioning dominant discourses in higher education: the struggle to rethink the global university, National Seminar, Sociology - Meeting the Challenges of Globalization, University of Kashmir, Srinagar, Amman Madan.
174. A Cultural Psychological Inquiry among the Survivors of Post-Godhara Riots in Gujarat at the 18th Annual Conference of National Academy of Psychology, IIT Guwahati, Kumar Ravi Priya.

175. Symposium on 'Teaching of Psychology in India: Mapping the Terrain'. 18th Annual Conference of National Academy of Psychology, IIT Guwahati, Kumar Ravi Priya.
176. Contextualizing Social Psychological Research on Trauma and Healing in India: Promises and Challenges, National Seminar on Social Psychology in India: Perspective and Potential, D. D. U. Gorakhpur University, Kumar Ravi Priya.
177. 18th Annual Conference of NAOP, IIT Guwahati, L. Krishnan and P. Varma.
178. Realistic self-esteem. National Seminar on Healthy Adolescent Girl -Sarojini Naidu Women's PG College, Bhopal, L. Krishnan.
179. The role of changing parenting attitudes. National Seminar on Changing Trends in Family Environment, Mata Jeejabai Girls' Post-Graduate College, Moti Tabela, Indore, L. Krishnan.
180. Sixth conference of Indian Association for Social Sciences on Health, Equity and Human Rights, organized by School of Social Sciences and International Studies, Pondicherry University, Puducherry, S. Dixit.
181. 12th International and 43rd National Conference of the Indian Academy of Applied Psychology, organized by Department of Applied Psychology, University of Calcutta, Kolkata, in Collaboration with National Institute of Technical Teachers' Training and Research, Kolkata, and Psychology Research Unit, ISI Kolkata, Kolkata A. Mehrotra and S. Dixit.

Chemistry

182. 4th EuCheMS Conference on Nitrogen Ligands' at Garmisch-Partenkirchen, Germany, J.K. Bera
183. 38th International Conference on Coordination Chemistry (37th ICCC)' at Jerusalem, Israel, J. K. Bera. Symposium on Chemical Dynamics in Complex Systems, held in IISc, Bangalore, A. Chandra.
184. Eighth Triennial Congress of the World Association of Theoretical and Computational Chemists, held in Sydney, Australia, A. Chandra.
185. The International Conference on Theory and Applications of Computational Chemistry, held in Shanghai, China, A. Chandra.
186. Seminar on Frontiers of Spectroscopy, held at Lucknow University, A. Chandra.
187. Meeting on Future Directions of Ultrafast Spectroscopy: A Guideline, held at S.N. Bose Centre for Basic Sciences, Kolkata, A. Chandra.
188. Theoretical Chemistry Symposium (TCS 2009), held at IISc and JNCASR, Bangalore, A. Chandra.

189. Sixth Discussion Meeting on Spectroscopy and Dynamics of Molecules and Clusters (SDMC 09), held at Mandarmoni, West Bengal, India, A. Chandra.
190. India-Japan Workshop on Frontiers in Molecular Spectroscopy and Theory, held at IACS, Kolkata, A. Chandra.
191. National Seminar on Current Trends in Chemistry - III, held at University of Kalyani, West Bengal, A. Chandra.
192. Molecules and Materials: New Directions at JNCASR, Bangalore, V. Chandrasekhar.
193. 4th EuCheMS Conference on N-Ligands, Garmisch-Partenkirchen, Germany, V. Chandrasekhar
194. UGC/State symposium at Goa University, Goa, M. K. Ghorai.
195. National seminar on recent trends in chemistry Punjabi University Paptiala, Member National Advisory Committee, B. D. Gupta.
196. 4th International Conference on Coherent Multidimensional Spectroscopy (CMDS 2008), Fukui Institute for Fundamental Chemistry, Kyoto University, Kyoto, Japan, S.K. Karthick Kumar, T. Goswami, A. Kumar, A. Nag and D. Goswami.
197. Control of laser induced molecular fragmentation benzene using chirped femtosecond laser pulses, AISAMP8, Perth, Australia, Tapas Goswami, S. Karthick Kumar, Aveek Dutta and Debabrata Goswami.
198. Photonics-2008, Habitat World Convention Center, New Delhi, Stable optical trapping: towards trapping single molecules, A. K. De, D. Roy and D. Goswami.
199. Nonlinear optical response of carbon nanotubes functionalized with a water soluble ink, Jyotsana Gupta, C. Vijayan, Sandeep Kumar Maurya and D. Goswami.
200. National Laser Symposium 2008 (NLS-08), DRDO Complex, New Delhi, Control of Laser Induced Molecular Fragmentation of n-Propylbenzene Using Chirped Femtosecond Laser Pulses, T. Goswami, S.K.K. Kumar, A. Dutta and D. Goswami.
201. Investigation of the effect of slit-width on the retrieved group delay from XSTRUT pulses, A. Dutta, I. Bhattacharya and D. Goswami.
202. Spectroscopy and Dynamics of Molecules and Clusters (SDMC) Discussion Meeting 09, Mandarmoni, Kolkata, Chirp enhanced molecular photo-fragmentation, D. Goswami.
203. Control of Laser Induced Photo-Fragmentation of n-Propylbenzene with Chirped Femtosecond Laser Pulses, T. Goswami, S.K.K. Kumar, A. Dutta and D. Goswami.
204. Towards polarization dependent control using collinear pump-probe z-scan technique, Sandeep Kumar Maurya and D. Goswami.

205. Probing Ultrafast Two-photon Fluorescence Dynamics in Laser-scanning Microscopy, A.K. De, S.K. Maurya, and D. Goswami.
206. Fluorescence-2009: An International Conference on Fluorescence in Biology, TIFR, Mumbai, Optical Sectioning with one-photon femtosecond laser illumination, Debabrata Goswami.
207. Probing Ultrafast Two-photon Fluorescence Dynamics in Laser-scanning Microscopy, A.K. De and Debabrata Goswami.
208. JNOST, Madurai, R Gurunath.
209. Lattice Inclusion Cornucopia: Sterically-Engineered Rigid Molecular Modules for Kaleidoscopic Guest Inclusion, J.N. Moorthy.
210. Indo-US bilateral workshop on pharmaceutical co-crystals and polymorphs, Mysore, J.N. Moorthy.
211. Influence of weak interactions on the self-assembly of sterically-hindered acids, amides, boronic acids and alcohols, J.N. Moorthy.
212. Discussion Meeting on Crystal Engineering and Noncovalent Interactions: Contemporary Themes and Futuristic Developments, Orange County, Coorg, J.N. Moorthy.
213. The 4th Asian Biological Inorganic Chemistry Conference (AsBIC-IV), Jeju, Korea, R.N. Mukherjee.
214. International Conference on Coordination Chemistry (ICCC38), Jerusalem, Israel, R.N. Mukherjee.
215. 11th National Symposium in Chemistry (NSC-11), National Chemical Laboratory, Pune, Book of Abstracts (P-49), R.N. Mukherjee.
216. Discussion Meeting on Theoretical Chemistry, IISc Bangalore, Nisanth Nair.
217. Recent trends in Organometallic Compounds & their Industrial Application, OMCA-2009, KIIT-University, Patia, Bhubaneswar, M.L.N. Rao.
218. 11th CRSI National Symposium in Chemistry (NSC-11) held on NCL, S. K. Ghosh, R. Patra and S. P. Rath.
219. 1st FOIC held at Jadavpur University, S. P. Rath.
220. Nanosteps Summer Workshop, Cargese, Madhav Ranganathan.
221. National Conference on Thermodynamics of Chemical and Biological Systems, Nagpur, Madhav Ranganathan.
222. Theoretical Chemistry Symposium. IISc. Bangalore, Madhav Ranganathan.
223. Molecular Science Conference, Fukuoka, Japan, Pratik Sen.
224. FACSS Conference, Reno, USA, Pratik Sen.
225. 11th NSC CRSI 2009, Pune, Pratik Sen.
226. National Symposium on Radiation and Photochemistry, Nainital, Pratik Sen.
227. BIFUR08, Madrid, Spain, K. Srihari.
228. Theoretical Chemistry Conference, Bangalore, K. Srihari.

229. Spectroscopy and Dynamics of Molecules and Clusters VI, Sana Beach Resort, Kolkata, K. Srihari.
230. American Physical Society Focus meeting on Transition States in Chemistry, Physics, and Astrophysics, Pittsburg, USA, K. Srihari.

Physics

231. International Conference on Cold Atoms, IISER-Kolkata, T.K. Ghosh.
232. K. S. Krishnan Discussion Meeting on Frontiers in Quantum Science, The Institute of Mathematical Sciences, Chennai, T.K. Ghosh
233. New Trends in Field Theories, BHU, Varanasi, S.D. Joglekar
234. New Trends in Field Theories, BHU, Varanasi, S.D. Joglekar
235. International conference on computational material science and engineering (ICCMSE) 2008, held at Crete, Greece, M.K. Harbola
236. Controlling magnetic and superconducting properties at extreme scales in the International symposium on clusters, cluster assemblies and nanomaterials (ISCANM 2009), held at HRI, Allahabad, S.S. Banerjee
237. Controlling magnetic and superconducting properties at extreme scales in the Workshop on Magnetic Nanomaterials and their Application (MNTA), at S.N. Bose Center, Kolkata, S. S. Banerjee.
238. Indian Condensed Matter Physics Workshop, Mahabaleshwar, S.S. Banerjee.
239. 4th Indo-Israeli conference in Condensed Matter Physics, Zfat, Israel. S.S. Banerjee.
240. Talk in the Condensed Matter Seminar at Weizmann institute of Science, Israel, on Instabilities and nonlinearities in bulk and nanopatterned superconductors. S.S. Banerjee.
241. Quantum Phase Transition and Dynamics: Quenching, Annealing and Quantum Computation, Saha Institute of Nuclear Physics, Kolkata, Beyond the Kibble-Zurek Scaling: Quenching through a multicritical point and a gapless line. A. Dutta
242. Recent trends in condensed matter II, Saha Institute of Nuclear Physics, Kolkata, Adiabatic dynamics of quantum spin chains across quantum critical points: A. Dutta
243. Unconventional Phases and Phase Transitions in Strongly Correlated Electron Systems, MPIPKS, Dresden, Germany, Quenching Dynamics and Defect Generation in a transverse XY Chain. A. Dutta
244. Conference on Laser Applications in Basic and in Applied Sciences, Allahabad University, A. Pradhan
245. Meghnad Saha Memorial Symposium, Santiniketan, A. Pradhan.

246. 23rd National Symposium on Plasma Science and Technology (PLASMA 2008), BARC, Mumbai, Sudeep Bhattacharjee.
247. International workshop titled "CMB anisotropy and polarization measurements held in Inter University center for Astronomy and Astrophysics (IUCAA) Pune, Kaushik Bhattacharyya.
248. International Symposium on clusters and nan-scale materials, HRI, Allahabad, R. Prasad.
249. Recent trends in Condensed matter physics, LNMIIIT, Jaipur, R. Prasad.
250. Member, National Organizing Committee and Session Chair in the Indian Strings Meeting 2008 (ISM 08), Pondichery, G. Sengupta.
251. Workshop on Advanced Instability Methods, IIT Madras, M.K. Verma.
252. Plasma Society of India Annual conference at BARC, M.K. Verma.
253. International Workshop on Entanglement in Condensed Matter Physics at Matscience, Chennai. V. Subrahmanyam.
254. Krishnan Conference at Matscience, Chennai, V. Subrahmanyam.
255. QAQC International Workshop, at SINP, Kolkata, V. Subrahmanyam.

Mathematics

256. Stochastic Differential Equation Modeling of Some Ecological Systems, National Conference on Mathematical Modeling and Simulation, IIITM Gwalior, Malay Banerjee.
257. Stochastic Modeling and Simulation in Bio-mechanics, National Conference on Biomechanics, IIT Roorkee, Malay Banerjee.
258. 4th Asia-Pacific Computing and Philosophy (APCAP) Conference, NIAS, IISc Bangalore, Mohua Banerjee.
259. Logics from Rough Sets, National Seminar on Mathematics with special emphasis on Discrete Mathematics (NSMDM 2009), Univ. of Calcutta, Mohua Banerjee.
260. Rough Sets: Algebraic Aspects, 74th Annual Conference of the Indian Mathematical Society, Univ. of Allahabad, Mohua Banerjee.
261. Third Indian Conference on Logic and its Applications (ICLA 2009), IMSc, Chennai, Mohua Banerjee.
262. Subnormal Algebraic Operator Tuples, HRI International Conference in Mathematics held at Harish-Chandra Research Institute, Allahabad, S. Chavan.

263. Interdisciplinary Science Conference - 2008 on Mathematics in Biology, Jamia Milia Islamia, New Delhi, P. Chandra.
264. 76th Annual session of Indian Mathematical Society, Allahabad University, Allahabad, P. Chandra.
265. National Conference Mathematical Modeling and Computer Simulation, ABV IITM Gwalior, P. Chandra.
266. National Seminar on Mathematics & Its Applications to Industries - DBS College, Kanpur, P. Chandra.
267. National Seminar on 'Advanced Fluid Mechanics', NIT Warangal, P. Chandra.
268. Great Plains Operator Theory Symposium, University of Cincinnati, Cincinnati, USA, M. Gupta.
269. International workshop on Operator Theory, College of Williams and Mary, Williamsburg, Virginia, USA, M. Gupta.
270. International conference on Analysis and its Applications, Aligarh Muslim University, Aligarh, India, M. Gupta.
271. Indian Mathematical Society Annual Meeting, University of Allahabad, M. Gupta.
272. International conference on Differential Equations and Dynamical Systems and at Baltimore, Maryland, USA, M. K. Kadalbajoo.
273. The International Conference on Numerical Methods for PDEs, IIT Bombay, M. K. KadalBajoo.
274. Indo-French Conference in Mathematics, Madras, P. Mohanty.
275. Nonlinear Elliptic equations-an over view, National conf. on Analysis and applications, Department of Mathematics, Sardar Patel university, V.V. Nagar, Gujarat. Also chaired a session, V. Raghavendra.
276. Nonlinear Elliptic Equations, 24th Annual conference of the Mathematical Society of BHU, Dept. of Mathematics, BHU, Varanasi, V. Raghavendra.
277. Approximation by K finite functions, National Conference on Fourier analysis and its Applications, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, R. Rawat.
278. Twisted spherical means in annular regions in \mathbb{R}^n , HRI International Conference in Mathematics, Harish-Chandra Research Institute, Allahabad, R. Rawat.
279. Obata's theorem and its generalizations, HRI International Conference in Mathematics, HRI Allahabad, G. Santhanam.
280. Thermal and roughness effects in a slider bearing with special reference to load generation in parallel sliders, presented at the 63rd Annual Meeting of the Stle, Cleveland, OH, USA, Prawal Sinha & Getachew Adamu.

281. Mathematical Modeling of Thermo Hydrodynamic Effects in a Rough Slider Bearing Considering Heat Conduction through the Pad, presented at the 2008 International Conference on Modeling, Simulation and Visualization Methods (MSV'08) held at Las Vegas, NV, USA, Prawal Sinha & Getachew Adamu.
282. The STLE/ASME International Joint Tribology Conference, at Miami, Florida, USA, Prawal Sinha & Getachew Adamu.
283. The Fourier Algebra of a Locally Compact Group and Completely Bounded Multipliers, IMS-2008, U. B. Tewari.

SEMINAR PRESENTED

Aerospace

1. Grid and Cascade Fins for control of Large-incidence Missiles, BIT Ranchi (Mesra) Deptt of Aerodynamics & Rocketry, Kunal Ghosh.
2. Damage LMT mesomodel and its validation, International Seminar on Composites for Aerospace Applications, Hindustan University, Chennai, PM Mohite, G Lubineau, P Ladevèze and AC Galucio.
3. Hierarchical modeling of polycrystals. IIT Bombay, Metallurgical Engineering and Materials Science Dept., S. Mahesh.
4. Banding in single crystals. IIT Kanpur, ME Department seminar series. Creep lifetime of fiber composites, International conference on creep and fatigue (CF-5), IGCAR, Kalpakkam, S. Mahesh.
5. Design and development of an autonomous mini helicopter, *Invited Talk* in International Conference and Exhibition on Total Engineering, Analysis & Manufacturing Technologies, Bangalore, Venkatesan. C., Kushari, A., Upadhyay, C.S., Dhadwal, M., and Swaroop, B.
6. Flight dynamic modeling and analysis of a mini helicopter for trim and stability *Invited Talk* in INDUS MAV Workshop, NAL, Bangalore, Venkatesan. C.
7. Rotary-Wing Technology: Past, Present and Future, *Invited Talk* in Industry Awareness Workshop, University of Petroleum and Energy Studies, New Delhi, Venkatesan. C.

Biological Science and Bio-engineering

8. *Invited talk* in the BSI Invited Seminars & Forums, organized by the RIKEN Brain Science Institute, Wako-shi, Japan, Ganesh S.
9. *Invited talk* in the HUGO 13th Human Genome Meeting, held at International Convention Centre, Hyderabad, Ganesh S.
10. 1st International Stem Cell Summit India - 2008, IIT Chennai, Amitabha Bandyopadhyay.
11. *Invited talk* - Yin and Yang of skeletal development: Gene hunting and Genetics, CDRI, Lucknow, Amitabha Bandyopadhyay.
12. From sequence analysis to structural simulations: How can basic and applied biology benefit from bioinformatics applications, *plenary lecture* in the National Seminar on Bioinformatics Applications in Medical Sciences organized by SRM University, Chennai, R. Sankar.

13. Comparative molecular dynamics simulations reveal specificity of Bcl-XL anti-apoptotic protein, *Invited talk* at the Bioinformatics Institute, Singapore, R. Sankar.
14. Biomolecular simulations: Future challenges in high performance computing, *Invited talk* in the HPC User Group Workshop on Advancements in High Performance Computing and Interoperability jointly organized by Microsoft Inc. and SERC, Indian Institute of Science, Bangalore, R. Sankar.
15. Comparative molecular dynamics simulations reveal specificity of a member of Bcl-2 cancer proteins, *Invited talk* in the International Conference on Emerging Trends in Biological Sciences at KIIT University, Bhubaneswar, R. Sankar.
16. Protein-Protein interactions in Bcl-2 apoptotic proteins: Comparative MD simulations on Bcl-XL complexes, *Invited talk*, Biotechnology Centre, School of Biosciences and Bioengineering, Indian Institute of Technology, Bombay, R. Sankar.
17. New generation of polymeric biomaterials for biotechnological and bioengineering applications. 13th International Biotechnology Symposium and Exhibition, Dalian-China, Kumar, A.
18. Designing New Supramacroporous Cryogels Biomaterials for Bioengineering applications. Tissue and Cell Engineering Society, Annual conference, University of Nottingham, UK, Kumar, A.

Chemical

19. Adhesion enhancement via physical patterning of surfaces, TATA Iron and Steel Co., Jamshedpur, A Ghatak.
20. 3-dimensionally Oriented Multihelical Channels for Microfluidic Mixing, Indo-German Workshop on Micro-reaction Technology, Pune, A Ghatak.
21. Bio-inspired Microfluidic Adhesion. Department of Physics, Indian Institute of Technology, Kanpur, A. Ghatak.
22. Pressure driven membrane processes: Effluent Treatment, INTERFACE-08 held at HBTI-Kanpur, PK Bhattacharya.
23. Genetic Algorithm and Multi Objective Function Optimization, Harcourt Butler technological Institute Kanpur, S Garg.
24. Chemical sensors - Engineering Perspectives, Institution of Engineers, Kanpur Chapter, S Panda.
25. Organic Chemical Sensors, Summer Course on Organic Electronics, IIT Kanpur, S Panda.
26. Atoms, Summer Course on Organic Electronics, IIT Kanpur, S Panda.

27. Molecular Modeling and Simulation: Can it help in the development of micro and nano devices?, INDO- US Workshop, IIT KGP, J.K. Singh.
28. Molecular simulation of fluids near surfaces, HPC workshop, IISc Bangalore, J.K. Singh.
29. Mechanical Engineering Seminar, IISc Bangalore, V Shankar.
30. Fluid Dynamics Colloquium, JNCASR, Bangalore, V Shankar.
31. Time-Temperature superposition in soft glassy materials, 25th Annual meeting of Polymer Processing Society, Goa, Y.M. Joshi.
32. Time-Temperature superposition in soft glassy materials, Annual Physics convention, Department of Physics, Indian Institute of Technology-Kanpur, Y.M. Joshi.
33. Ageing under deformation field: Time-Stress superposition, Tata Research Development and Design Center, Pune, Y.M. Joshi.
34. Ageing under deformation field: Time-Stress superposition, National Chemical Laboratory-Pune, Y.M. Joshi.
35. Ageing under deformation field: Time-Stress superposition, Annual Meeting of the Indian National Academy of Engineering, India, Goa, YM Joshi.
36. Ageing under deformation field: Time-Stress superposition, 78th Annual Session of the National Academy of Sciences, India, Chandigarh, YM Joshi.
37. Ageing under deformation field in soft glassy materials, Polymères, Colloïdes, Interfaces, Université du Maine, Le Mans, YM Joshi.
38. Ageing under deformation field in soft glassy materials, Laboratoire de Physique des Solides, Université Paris Sud Bât, Orsay, YM Joshi.
39. Ageing under deformation field in soft glassy materials, Navier Institute, University of Eastern Paris, Paris, YM Joshi.
40. Ageing under deformation field in soft glassy materials, Dipartimento di Fisica Università di Roma La Sapienza, Rome, YM Joshi.

Civil

41. *Invited Talk* entitled Rainfall-runoff modeling using neural networks: State-of-the-art and future research needs in The Brainstorming Workshop on Application of Advanced Soft Computing Techniques in Geospatial Data Analysis, IIT Bombay, Mumbai, India, Jain, A.
42. *Invited Guest Lecture* entitled Integrated Hydrologic Modeling and Knowledge Extraction from Trained ANN Hydrologic Models in Prof. Holger Maiers class: C&ENVENG 4087 (Final Year) and C&ENVENG 7029 (Masters) Environmental Modelling, Management and Design 08, School of Civil

- Environmental, and Mining Engineering, University of Adelaide, Adelaide, Australia, Jain, A.
43. School Seminar entitled Development of Integrated Hydrologic Models, School of Civil Environmental, and Mining Engineering, University of Adelaide, Adelaide, Australia, Jain, A.
 44. ICE WaRM Public Seminar entitled Water Problems and Solutions: An Indian Perspective, Water SA, 77 Grenfell Street, Adelaide, Australia, Jain, A.
 45. School Seminar entitled Integrated Hydrologic Modelling and Hidden Neuron Specialisation in Neural Network Hydrologic Models, School of Civil and Environmental Engineering, University of New South Wales, Sydney, Australia, Jain, A.
 46. ICE WaRM Public Seminar entitled Water Problems and Solutions: An Indian Perspective, Radisson Hotel, Liverpool Street, Sydney, Australia, Jain, A.
 47. Centre for Water Management and Reuse Seminar entitled Modelling of Water Resources Variables using Soft Computing Approaches, School of Natural and Built Environments, University of South Australia, Adelaide, Australia, Jain, A.
 48. Hydrology Discussion Forum Seminar entitled The Development of Hybrid Hydrologic Models using Process Based and Artificial Neural Network Methods, School of Chemistry, Physics and Earth Sciences, Flinders University, Adelaide, Australia, Jain, A.
 49. Disaster management and mitigation related issues related to road infrastructure, Workshop on disaster management and mitigation, HBTL, Kanpur, Das, A.
 50. Do we know how to build roads? National Seminar in Geotechnical Engineering for applications in pavement, embankment and retaining wall constructions, IT-BHU, Varanasi, Das, A.
 51. Aggregate shape characterization for bituminous mixes, National Seminar in Geotechnical Engineering for applications in pavement, embankment and retaining wall constructions, IT-BHU, Varanasi, Das, A.
 52. Center for Archaeological Sciences and Technologies (CAST): An Indian Initiative, Dikshit O, Malik J N, Dhande S G, Chatterjee A , Rai G K, Mani B K, Fonia R S, Prabhakar V N.
 53. Paleoseismological Investigations around Port Blair, Andaman Islands: Evidence of Subsidence and Uplift from Sedimentary Records, Malik J N, Shishikura M, Echigo T, Ikeda Y, Satake K , Kayanne H, Basir S R, Chakraborty G K, Murty C V R & Dikshit O.
 54. Paleo-Earthquake Evidence from Archaeological Site in Mesoseismal Zone of 1819 Allah Bund Event, Great Rann of Kachchh, Gujarat, Western India, Malik J N, Gadhavi M S, Ansari K, Dikshit O.

55. Lead Speaker, Third Indo-US Frontier of Science held in Agra, S.N. Tripathi.
56. Invited Lecture at Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, S.N. Tripathi.
57. Chairpersons talk delivered titled, Brief overview of Atmospheric Haze/Aerosol research in India with Special Reference to Ground Based Measurement and Chemical Characterization of Submicron Aerosol Particles at National frontiers of Science, DST sponsored symposium, New Delhi, Tarun Gupta,
58. Presentation on Measurement and chemical characterization of submicron aerosol collected at IITK made at Indo-US Frontiers of Science, Agra, Tarun Gupta,

Computer Science

59. Talk, Title: Parity Games on Multi-Stack Pushdown Systems Delivered as part of the Indo-French Workshop on Automata Concurrency and Timed Systems (ACTS), held at Chennai Mathematical Institute, Anil Seth.
60. Distributed Indexing and Querying in Sensor Networks using Statistical Models at Universite Libre de Bruxelles, Brussels, Belgium, Arnab Bhattacharya.
61. Arithmetic Circuits: A Chasm at Depth Four, Tokyo Institute of Technology, Tokyo, Japan, Manindra Agrawal.
62. Arithmetic Circuits: A Chasm at Depth Four, Kyoto University, Japan, Manindra Agrawal.
63. A Possible Pseudorandom Generator Against Arithmetic Circuits, Indian Algorithms Seminar, Khandala, Manindra Agrawal.
64. Fermats Last Theorem: From Integers to Elliptic Curves, BHU, Manindra Agrawal.
65. Arithmetic Circuits: A Chasm at Depth Four, MSR Theory Day, Bangalore, Manindra Agrawal.
66. The P versus NP Question and Pseudorandom Generators, INSA Diamond Jubilee lecture, Delhi, Manindra Agrawal.
67. The P versus NP Problem, Infosys Award lecture, Bangalore, Manindra Agrawal.
68. Cooperative Black and Gray Hole attacks on Mobile Ad hoc Networks, University of Louisville, Kentucky, R.K. Ghosh.
69. Security attacks on MANET, University of Texas at Arlington, R.K. Ghosh.
70. Multi-core program at IIT Kanpur, Intel Asia Academic Forum, Taipei, Taiwan, Sanjeev K. Aggarwal.

71. Program Optimization for Multi-core Architectures: Current Trends, Wipro Technologies, Bangalore, Sanjeev K. Aggarwal.
72. Program Optimization for Multi-core Architectures: Opportunities and Challenges, NIT, Trichy, Sanjeev K. Aggarwal.
73. Lower bound for estimating frequencies of data streams, University of Frankfurt, Sumit Ganguly.

Electrical

74. Smart House, 40th World Telecommunication and Information Society Day, IIT Kanpur organized by IETE Kanpur Chapter, Adrish Banerjee.
75. Turbo Code Design For Half-Duplex Relay Channels, Department of Electronic Engineering, Far East University of Science and Technology, Taiwan, Adrish Banerjee.
76. Quantum Computational Intelligence, *Invited Talk* in Indo-US workshop held in DEL, Agra, Laxmidhar Behera.
77. Decision-Directed Channel Estimation and Data Detection over Time Varying Flat Fading Channels, School of EEE, NTU, Singapore, K. Chaturvedi.
78. Low Complexity Frequency Offset Estimation for Flat Fading MIMO Channels, School of EEE, NTU, Singapore, A.K. Chaturvedi.
79. Power Electronics Today, COMPCON-08 (A National Seminar and Workshop on Communication, Power Electronics and Control Systems), Mohandas College of Engineering and Technology Thiruvananthapuram, Shyama P. Das.
80. Partial Discharges, NERIST (AICTE course), Itanagar, Nandini Gupta.
81. Nano-dielectrics, NERIST (AICTE course), Itanagar, Nandini Gupta.
82. Partial Discharges in High Voltage Power Apparatus, *Invited Lecture*, NIT Durgapur, Nandini Gupta.
83. RFID and Applications, IETE Kanpur Chapter, R. Harish.
84. RFID and Location Sensing, Institution of Engineers, Kanpur, R. Harish.
85. RF Research at IIT Kanpur, International crossroads at TELECOM and Management, SudParis, R. Harish.
86. Antenna Design for CRISIS Radars, University of Kansas, USA, R. Harish.
87. Active and Passive RFID and Location Technology Research at IIT Kanpur, Boeing Company, St Louis, USA, R. Harish.
88. Speaker Recognition: Part I: Speech Production, Broad Overview of Vector Quantization, and Gaussian Mixture Models, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, Rajesh M. Hegde.

89. Speaker Recognition: Part II: Theoretical and Implementation Aspects of VQ and GMM for Speaker Recognition, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, Rajesh M. Hegde.
90. Data Acquisition using LabVIEW, Lohia Starlinger Ltd., Chaubepur, Kanpur, Joseph John.
91. Health Monitoring of Internal Combustion Engine, Indo-German, Theme Meeting, Kolkata, P. K. Kalra.
92. Advanced Converter Technology for FACTS Controllers, QIP Course, IIT Kanpur, Santanu K. Mishra.
93. Variable Phase Input Power Plant Design for Telecom Application, Power Plant Workshop, ALTTC, BSNL, Ghaziabad, Santanu K. Mishra.
94. Introduction to Controller Area Network, Lohia Starlinger Ltd., Chaubepur, Kanpur, R. Potluri.
95. Key Note speaker at AICTE-ISTE course on Recent Trends in Power Systems at NERIST, Nirjuli, Itanagar, S. N. Singh.
96. Key Note speaker at All India Seminar on Energy Management in Indian Perspective; Efficiency Improvement and Energy Conservation in Power & Utilities & Emerging Technologies in the Alternative Energy for Power Generation, IE (I), Lucknow, S. N. Singh.
97. Key Note speaker and Panelist at National Seminar on Non-Conventional Energy Resources & Its Application (NCERU09), KNIT Sultanpur, S. N. Singh.
98. FACTS Course at POWERGRID Substation, Lucknow, S. N. Singh.
99. Optical Networks, IMPACT 2009, Zakir Hussain College of Engineering, Aligarh Muslim University, Y. N. Singh.
100. Optical Networks, Ambedkar Institute of Technology, Geeta Colony, Delhi, Y. N. Singh.
101. Fast dynamic ATC determination and its enhancement using FACTS controller Invited Lecture at Illinois Institute of Technology, Chicago USA, S.C. Srivastava.
102. Development of methods for optimal placement of PMUs, machine internal state estimation and a global index for voltage stability prediction, Invited Presentation (a working group presentation authored by S.C. Srivastava, S.N. Singh, Ranjana Sodhi, Praveen Tripathi and K. Seethalekshmi) in the NASPI working group committee meeting, at EPRI Charlotte, North Carolina, USA, S.C. Srivastava.
103. Computer Vision Applications: an Introduction, IIITM-K Thiruvananthapuram, K. S. Venkatesh.
104. New Trends in Video Surveillance Technology, LNMIIT, Jaipur, K. S. Venkatesh.

105. Short Course in Image Processing, BMS Engineering College, Bangalore, K. S. Venkatesh.
106. Surveillance Video Analysis Systems: Components, Developments and Challenges, Univ. of Ulster, Magee, Derry, N. Ireland, K. S. Venkatesh.
107. A General Theory of Signals and Processing: The Formalism, Univ. of Ulster, Magee, Derry, N. Ireland, K. S. Venkatesh.

Industrial & Management

108. Use of Asymmetric Loss Functions in Sequential Estimation Problem for the Multiple Linear Regression, Department of Industrial and Operations Engineering, University of Michigan, Ann Arbor, USA, R. N. Sengupta.
109. Impact of information sharing and lead time on bullwhip effect and on-hand inventory, Department of Information, Operations & Management Sciences, STERN School of Business, New York University, USA, R. N. Sengupta.
110. Use of Asymmetric Loss Functions in Sequential Estimation Problem for the Multiple Linear Regression, Department of Computer Science, The University of Memphis, USA, R. N. Sengupta.
111. Bankruptcy Prediction Using Artificial Immune Systems, Lally School of Management & Technology, Rensselaer Polytechnic Institute, USA, R. N. Sengupta.
112. A study of two different variants of adaptive sampling procedures and some interesting applications in management science, Fordham University, USA, R. N. Sengupta.
113. Study of Asymmetric Loss function and its use in Sequential Analysis Estimation, Department of ORFE, Princeton University, USA, R. N. Sengupta.
114. Concept of Alternative Development, Jharkhand Alternative Development Forum, Ranchi, Rahul Varman
115. Role of Incubation for successful Entrepreneurship: TiE-UP, B.V.Phani
116. Teaching Entrepreneurship: A Practitioners View NEN Calcutta, B.V.Phani
117. Entrepreneurial Eco System, IITs Role in Nation Building, Pan IIT-Global Conference, B.V.Phani
118. Intellectual Property Rights: Where, When and Why-RDSO, Lucknow, B.V.Phani

119. Tacit and its dynamics, International Workshop on Knowledge Management, Aligarh: Aligarh Muslim University, D. Pattanaik and J. Chatterjee.
120. KM strategy and assessment to strategic assessment of KM, KM India 2008 - Enhancing Competitiveness through KM, Mumbai, D. Pattanaik and J. Chatterjee.
121. A case study on knowledge networking - DEAL as an innovation ecosystem, IMI-CSIR HRD Workshop on Knowledge Management, New Delhi, D. Pattanaik and J. Chatterjee.
122. Gene Expression Data Analysis at the Workshop on Bio Informatics organized by Mahila University Tirupathi, B. Chandra.
123. Two Way Clustering at Virginia Tech, USA, B. Chandra.
124. Data Mining for Manufacturing at Nanyang Technological University, Singapore, B. Chandra.

Mechanical

125. Simulation of Oscillatory Flow in Tubular Bifurcations on Unstructured Grids, presented at the International Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics, Bhabha Atomic Research Center, K. Muralidhar.
126. Optical imaging of convection during growth of KDP and protein crystals, the second joint symposium between NTU Singapore and IIT Kanpur (at IIT Kanpur), K. Muralidhar.
127. Refractive index methods for the measurement of temperature, solutal concentration and fluid flow, presented at AFFTS-2008 (National Conference on Advanced Fluid Flow and Thermal Sciences), K. Muralidhar.
128. Hierarchical modeling of polycrystals. IIT Bombay, Metallurgical Engineering and Materials Science Dept. S. Mahesh.
129. Banding in single crystals. IIT Kanpur, ME Department seminar series, S. Mahesh.
130. Creep lifetime of fiber composites, international conference on creep and fatigue (CF-5), IGCAR, Kalpakkam, S. Mahesh.
131. Applied Mechanics, IGCAR, I. Sharma.
132. Thermal ratcheting in pipes, IGCAR, I. Sharma.
133. *Invited talk* at MNIT Allahabad for workshop on faculty development entitled Optical Techniques in Mechanical Engineering, P.K. Panigrahi.
134. *Invited talk* at IET Lucknow for workshop on Research Methodologies entitled Design and analysis of experiments, P.K. Panigrahi.
135. Prediction of Bubble Growth in Film Boiling using a Variant of Volume-of-Fluid Method, University of Western Ontario, Research Seminar of the Faculty of Engineering, G. Biswas.

136. Analysis of Bubble Growth in Film Boiling Using a Variant of Volume of Fluid Method, BRNS-INS Symposium on Multiphysics Modeling for Current and Future Nuclear Reactors, BARC, Mumbai, G. Biswas.
137. Educational (Science and Technology) Environment in India and Distance Mode of Delivering Education - A Proposal, Educational Track, PAN-IIT, IIT Madras, G. Biswas.
138. Profile of Engineering Education in India: Status, Concerns and Recommendations, INAE Seminar on Agenda for Reforms in Engineering Education, ISRO Satellite Centre, Bangalore, G. Biswas.
139. *Invited lecture* in AICTE approved Summer School (STTP) on Computational Fluid Dynamics: Basics and Applications) at Department of Mechanical Engineering, S.V. National Institute of Technology Surat, Gujarat-395007, 2008, A.K. Saha.
140. Micro to Nano-finishing presented in the SERC school on Micromachining held at IIT Bombay, Mumbai, V.K. Jain.
141. Mechatronics: The Highway to the National Development Invited talk presented at National Womens Science Congress, Karnataka State Women University, Bijapur, 2008, Anjali K.
142. 22nd National convention of Metallurgical and materials Engineers, Hyderabad, N.V. Reddy.
143. Indo-US Workshop held at PSG, Coimbatore, N.V. Reddy.
144. Third National Frontiers of Engineering (NatFOE) (organized by INAE), N.V. Reddy.
145. The Puzzling Primes, the open house of Mathematics Department at IIT Kanpur, A.K. Mallik.
146. Pendulum - The Paradigm of Oscillations, S. N. Bose National Centre of Basic Sciences, Kolkata, A. K. Mallik.
147. The science and art of planar linkage design - *Invited lecture* delivered at AMM Workshop held at IIT Madras, A. K. Mallik.
148. Mathemagical Black Holes and Dynamical Systems - National meet of Research Scholars in Mathematics and Statistics, IIT Kanpur, A K Mallik.
149. Pendulum - The Paradigm of Oscillations - Prof. B Karunesh Memorial Lecture in 53rd Congress of ISTAM, Osmania University, Hyderabad, A K Mallik.
150. Significance of Nonlinearity in Vibration Control - Keynote address in ICOVP at IIT Kharagpur, A K Mallik.
151. Geometry and Nonlinearity in Mechanics - Pravartana II at IIT Kanpur, March 6, 2009, A.K. Mallik.
152. Concept of Stability in Mechanics and Mathematics - Workshop on teaching Mechanics at BESUS, A.K. Mallik.

153. Abrasive flow machining (AFM): An Overview, INDO - US WORKSHOP on Smart Machine Tools, Intelligent Machining Systems and Multi-scale Manufacturing, M. Ravishankar, V.K. Jain and J. Ramkumar.
154. Tutorial delivered at GECCO-2008 in Renaissance Atlanta Hotel, USA, entitled `Evolutionary Multi-Criterion Optimization, K. Deb.
155. Tutorial to be delivered at SEAL-2008 Conference in Melbourne, Australia entitled `Evolutionary Multi-Objective Optimization (EMO), K. Deb.
156. Evolutionary Practical Optimization at the Ship Laboratory, Helsinki University of Technology, Espoo, Finland, K. Deb.
157. Masters Course on Evolutionary Computation delivered at University of Pavia, Italy, K. Deb.
158. Energy Scavenging Sensors for Automobiles and Crawling Robots for Health Monitoring of Pipes and Barrels, IPS, Waseda University, B. Bhattacharya.
159. Principles of Vibration Control, given jointly with Prof A. K. Mallik organized by i2k at Delhi, B. Bhattacharya.
160. Smart Materials and Design of Intelligent Systems, organized by Cats Inc. at Delhi, B. Bhattacharya.
161. Describing Mechanical Properties of Amorphous Polymers through Simulations at Multiple Scales, invited talk at National Chemical Labs Pune, CFPE Seminar series, S. Basu.
162. Control of Friction-Driven Oscillations by Time-delayed Feedback, Aerospace Engineering Department, Indian Institute of Technology Kanpur, P. Wahi.
163. Bifurcation and Chaos in Rayleigh-Benard Convection, Pravartana II - Nonlinearity and Geometry in Mechanics, Indian Institute of Technology-Kanpur, P. Wahi.

Humanities and Social Sciences

164. Productivity Analysis of the ICT Sector Across Countries with Special Reference to India: Directions for New Science Policy. International Conference on Liberalizing Research in Science and Technology, organized by Department of HSS, IIT Kanpur and Institute of History of Science and Technology, St Petersburg, Russia, S.K. Mathur.
165. Vulnerability Mapping and District Situation Analysis of HIV/AIDS in two districts of Bihar - Muzaffarpur and Vaishali, Reports based on studies sponsored by UNICEF Bihar, BSACS, Patna, Rita Singh and A.K.Sharma.
166. Invited talk on Research Methodologies, National Meet of Research Scholars in Mathematics and Statistics (NMRSMS-08), Department of Mathematics and Statistics, IIT Kanpur, A.K. Sharma.

167. Studying factors in prevention & management of post partum hemorrhage (PPH). Meeting of Pathfinders International, A.K. Sharma.
168. Invited paper - From ICT to Empowerment: Roadmap towards a Sensitive Society for Persons with Disabilities. National Symposium on Road Designs and Accessibility for Persons with Disabilities, ISIC, New Delhi, Vineet Sahu.
169. Invited talk on Science and Technology in India for Class formation or Class annihilation-Department of Humanities and Social Sciences, IIT Kharagpur, B.K. Pattnaik.
170. Cognitive Emotional Processing in the Aftermath of Trauma: Reflections from Questionnaire Based Assessment, Universities of Wurzburg and Bamberg, Germany (Graduierertenkolleg: Cognition and Emotion- Forced Choice between Siamese Twins?), Braj Bhushan.
171. Earthquakes: Human behaviour and societal impact. IIT Madras & Structural Engineering Research Center (at University of Stuttgart, Germany). TU9-IITM Indo-German Workshop on Earthquake Engineering for Sustainable Structures), Braj Bhushan.
172. Stress research in perspectives. Keynote address at the National conference on Management of stress for Quality Living. Amity Institute of Behavioural & Allied Sciences, Lucknow, Braj Bhushan.
173. *Invited talk* - Dynamic Post Disaster Socio-economic and Cultural Contexts and the Challenges of Psycho-social Rehabilitation and Disaster Management. Workshop on Disaster Management and Mitigation, Department of Civil Engineering, HBTI Kanpur, Kumar Ravi Priya.
174. From Verbal to Visual: Recapturing the Postmodern Comic Sublimity in Paul Austers City of Glass: The Graphic Novel, International Conference on Representing Comics: Transgressions in Culture and Media, organised by the Centre for Performance Research and Cultural Studies in South Asia-CPRAC SIS at Thrissur, Kerala, T. Ravichandran.
175. Future Trends: Cybercriticism - lecture for the Short Term Course on Literary Theory: Theories of Reading and Writing, organised by the Department of Humanities and Social Sciences, IIT Kharagpur, T. Ravichandran.
176. Future Trends: Ecocriticism - lecture for the Short Term Course on Literary Theory: Theories of Reading and Writing organised by the Department of Humanities and Social Sciences, IIT Kharagpur, T. Ravichandran.
177. Popular *invited talk* - Game Theory and its Applications - at Business Club, IIT, Kanpur, Sarani Saha.

Chemistry

178. *Invited talk* is given by my student K. Elango, at Recent Advances in Metalloorganic Chemistry (RAMC), held at Periyar University, Salem, Synthesis and Hydrolysis of NHC-Stabilized Zinc Aryloxides, Kandasamy Elango and Ganapathi Anantharaman and obtained best oral presentation award, G. Anantharaman.
179. *Invited talk* on Recent trends in Organometallic Compounds and their Industrial Applications (OMCA) held at KIIT, Bhubaneswar, Synthesis and Hydrolysis of NHC-Stabilized Zinc Aryloxides, G. Anantharaman.
180. Frontiers of Science at Indian Science Congress on in Shillong, J.K. Bera.
181. Hydrogen and Hydrogen Storage - Methods and Materials in Bangalore, India, January, J.K. Bera.
182. Vibrational spectral diffusion in aqueous solutions, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, A. Chandra.
183. Theoretical studies of water dynamics under normal and supercritical conditions from first principles, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bangalore, A. Chandra.
184. Hydrogen bond fluctuations and vibrational spectral diffusion in normal and supercritical water, Shanghai Jiao Tong University, China, A. Chandra.
185. Vibrational spectral diffusion in water under normal and supercritical conditions, Lucknow University, A. Chandra.
186. Dynamics of water and aqueous solutions from ab initio molecular dynamics, Department of Chemistry, IIT Delhi, A. Chandra.
187. Charge defects in hydrogen bonded clusters, monolayers and chains: Hydration characteristics, dynamics and vibrational spectroscopy, S.N. Bose Centre for Basic Sciences, Kolkata, A. Chandra.
188. Ab initio molecular dynamics studies of aqueous systems: Hydration dynamics and vibrational spectroscopy, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, A. Chandra.
189. Proton transfer Kinetics in water clusters, monolayers and chains, Indian Association for the Cultivation of Science, Jadavpur (talk held at Sana Resort, Mandarmoni), A. Chandra.
190. Kinetics of proton transfer in aqueous systems of different dimensions, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, A. Chandra.
191. Proton transfer in water-filled narrow pores, Department of Chemistry, University of Kalyani, A. Chandra.
192. 3d-4f Heterometallic Trinuclear Compounds. A New Family of Single-Molecule Magnets, Talk at CHEMFEST Conference held in Kanpur, V. Chandrasekhar.
193. 3d-4f Heterometallic Trinuclear Compounds. A New Family of Single-Molecule Magnets, Invited Talk in the conference: Molecules and Materials:

- New Directions at JNCASR, Bangalore, V. Chandrasekhar.
194. Phosphorus-supported Multidentate N-Donor ligands for the Construction of Multimetal Assemblies, Invited Talk at the 4th EuCheMS Conference on N-Ligands, Garmisch-Partenkirchen, Germany, V. Chandrasekhar.
 195. Nobel Prize in Chemistry - 2008, An invited Institute Talk at IIT Hyderabad, V. Chandrasekhar.
 196. 3d-4f Heterometallic Trinuclear Compounds. A New Family of Single-Molecule Magnets Department of Chemistry, IIT Bombay, V. Chandrasekhar.
 197. 3d-4f Heterometallic Trinuclear Compounds. A New Family of Single-Molecule Magnets Department of Chemistry, IIT Kharagpur, V. Chandrasekhar.
 198. Modelling the luminophore of the green fluorescent protein; Seminar presented at the Du pont knowledge center Hyderabad, R. Gurunath.
 199. *Invited lecture* at Institut fuer Chemie und Biochemie, Freie Universitaet Berlin, Organische Chemie, Takustr. 3, D-14195 Berlin, Germany, F.A. Khan.
 200. *Invited lecture* at Department Chemie und Biochemie, Ludwig-Maximilians-Universitaet Muenchen, Germany, F.A. Khan.
 201. *Invited lecture* at Institut für Organische Chemie, Universitaet Stuttgart, Germany, F.A. Khan.
 202. *Invited lecture* at Institut für Organische Chemie, Johannes Gutenberg University Mainz, Germany, F.A. Khan.
 203. *Invited lecture* at Institute of Chemistry, University of Potsdam, Germany, F.A. Khan.
 204. *Invited lecture* at Fachbereich Chemie, Philipps-Universität Marburg, Germany, F.A. Khan.
 205. *Invited lecture* at Organisch-Chemisches Institut, Ruprecht-Karls-Universität Heidelberg, Germany, F.A. Khan.
 206. *Invited Lecture* at Technische Universität Dresden, Germany, F.A. Khan.
 207. *Invited Lecture* at Institut de Chimie des Substances Naturelles, CNRS, F-91198 Gif-sur-Yvette, France, F.A. Khan.
 208. *Invited Lecture* at LABORATOIRE DE CHIMIE ORGANIQUE, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France, F.A. Khan.
 209. *Invited Lecture* at the Department of Chemistry, IIT Bombay, F.A. Khan.
 210. *Invited lecture* at Sixth One Day National Symposium in Chemistry on 8th of November, Dept of Chemistry, Indian Institute of Technology, Kharagpur, F.A. Khan.
 211. *Invited lecture* at Indo-Korean symposium (KOSEF), NCL Pune, F.A. Khan.
 212. Discussion Meeting on Crystal Engineering and Noncovalent interactions: Contemporary Themes and Futuristic Developments Orange County, Coorg, Karnataka, R.N. Mukherjee.

213. Rational approaches to engineering organic nanoporous materials and organic amorphous functional materials, Humboldt-Keelg on Structural characterization and spectroscopy of materials relevant to nanotechnology, biomedical and geobiology, BHU, Varanasi, J.N. Moorthy.
214. Rational Approaches to organic porous and amorphous functional materials, Indian Science Congress, NEHU, Shillong, J.N. Moorthy.
215. In Silico Prebiotic Peptide Synthesis, IISc Bangalore, Nisanth Nair.
216. Iron Sulfur World and Iron Sulfur Proteins, IACS, Kolkata, Nisanth Nair.
217. Motion of Spiral Steps on Pb Crystallites, at Nanosteps Summer Workshop, Cargese, France, Madhav Ranganathan.
218. Impurity Effects in Crystal Growth from Solutions, National Conference on Thermodynamics of Chemical and Biological Systems, Nagpur, Madhav Ranganathan.
219. Impurity Effects in Crystal Growth from Solutions, Department of Physics, IIT Kanpur, Madhav Ranganathan.
220. Incorporating Elastic Effects in Kinetics Monte Carlo Simulations of Heteroepitaxial Growth, Theoretical Chemistry Symposium, IISc. Bangalore, Madhav Ranganathan.
221. Title: Bioinspired Design of Porphyrin and Bisporphyrin based Metal Complex, ChemFest, IIT Kanpur, S. P. Rath.
222. Study of Interfacial Molecules using Novel Nonlinear Electronic Spectroscopy, FACSS Conference, Reno, USA, Pratik Sen.
223. Study of Interfacial Molecules using Novel Nonlinear Electronic Spectroscopy, Chemistry Department, University of California at Berkeley, Pratik Sen.
224. Unique Property of Nano-thick Interface Revealed by Novel Nonlinear Electronic Spectroscopy. Department of Nanoscience, Chiba University, Chiba, Japan, Pratik Sen.
225. Study of Interfacial Molecules using Novel Nonlinear Electronic Spectroscopy, National Symposium on Radiation and Photochemistry, Kumayun University, Nainital, Pratik Sen.
226. Classical-Quantum correspondence in isomerization dynamics: quantum eigenstates and classical Arnold web, at the APS Focus meeting on Transition States in Chemistry, Physics, and Astrophysics, Pittsburg, USA, K. Srihari.
227. Classical-Quantum correspondence: Three Examples, theory talk at Berkeley, USA, K. Srihari.
228. Local phase space barriers and quantum control: interplay of classical and quantum mechanisms, at the Theoretical Chemistry Conference, Bangalore, K. Srihari.

229. Classical Mechanics and Chemical Reaction Dynamics?, Mechanical Engineering seminar, IITK, K. Srihari.
230. Postmodern Chemical Dynamics, IACS Kolkata, K. Srihari.
231. Intramolecular vibrational energy flow, quantum eigenstates and the dynamical Arnold web, at BIFUR08, Madrid, Spain, K. Srihari.
232. Triarylbi-muthanes as atom-efficient sub-stoichiometric organometallic reagents for carbon-carbon bonds formations in organic synthesis (invited), Recent trends in Organometallic Compounds & their Industrial Application, OMCA-2009, KIIT-University, Patia, Bhubaneswar, M.L.N. Rao.
233. Delivered a lecture entitled Design and Synthesis of Mono and Bicyclic Glycosidase Inhibitors at Chemistry Department IIT Bombay, Y.D. Vankar.

Mathematics and Statistics

234. Dynamical Analysis in Mathematical Ecology, IIT Kanpur, Malay Banerjee.
235. Nonlinear Dynamical Modelling in Mathematical Ecology, Department of Mathematics, IIT Guwahati, Malay Banerjee.
236. Logics for Information Systems, invited talk at the Workshop on Logic and Cognition, Jadavpur University, Kolkata, Mohua Banerjee.
237. Mathematical Modeling - Invited theme Lecture in a workshop on Advanced mathematics, Department of Mathematics, BHU, Varanasi, P. Chandra.
238. Hyperexpansivity version of the Berger-Shaw Theorem, delivered a presentation in the conference International Workshop on Operator Theory and its Applications held at the College of William and Mary, Virginia, S. Chavan.
239. On hereditary semi-embeddings and G_δ -embeddings of Banach spaces, presented at ISI Bangalore while visiting there under young scientist visiting program of ISI, S. Dutta.
240. Simple Box Model and Advection Diffusion Equations and Numerical Solutions, IIT Kanpur, S Ghorai.
241. Presented 04 invited lectures in the Indo- German instructional school and workshop held at IIT Madras, FEM-A Birds Eye view and FEM for Unsteady Problems, M K Kadalbajoo.
242. A Look at Cardiac-Electric-Activity & Domain Decomposition Methods, ICCPDE-08, IIT Mumbai, B.V. Rathish Kumar.
243. A Look at the Arlequin Approach for Multiscale / Multimodel Problems (53rd Congress of ISTAM (An International Meet) University College of Engineering, Osmania University, Hyderabad, B.V. Rathish Kumar.
244. Mathematics at the frontiers of Science & Technology, DBS College Kanpur, B. V. Rathish Kumar.

245. Glimpses of Mathematical Modeling and Simulations pertaining to Cardio-Vascular Flows under Pathological conditions, ICRTMA-09, B. V. Rathish Kumar.
246. Bivariate Generalized Exponential Distribution, Presented at Indian Statistical Institute, New Delhi, D. Kundu.
247. Reliability Sampling Plan, Presented at Indian Statistical Institute, New Delhi, D. Kundu.
248. Generalized Exponential Distribution: A Review, Presented at the University of Cochi, Trivandam, D. Kundu.
249. Convex Functions and Inequalities. Christ Church College, Kanpur, Neeraj Misra.
250. Extensions of Multipliers, University of Hawaii, P. Mohanty.
251. On Maps which are one-one iff they are onto (an *invited talk*), IIT Madras, V. Raghavendra.
252. On Elliptic equations and jumping nonlinearities (an *invited talk*), IIT Madras, V. Raghavendra.

Physics

253. Signatures of Coherent Polarons in STM/S study of CMR Manganites, Invited talk in Symposium on Physical Sciences, JNU, New Delhi, A.K. Gupta.
254. Local Electronic Properties of Graphene, CMP Workshop, IITK. A.K. Gupta.
255. Electronic and transport properties of graphene in presence of inhomogeneous magnetic fields, IIT-Kanpur, T.K. Ghosh.
256. Low-energy properties of fermionic superfluid along the BEC-BCS crossover, IISER-Kolkata, T.K. Ghosh.
257. Causality violation and its detection, BHU, Varanasi, S.D. Joglekar
258. Lee-Wick Quantum field theories, IIT Kanpur, S.D. Joglekar
259. Time-independent excited-state density-functional theory, Centre for Theoretical studies, IIT Kharagpur, M.K. Harbola.
260. Can we construct excited-state energy functionals by splitting k-space? Condensed Matter Theory workshop, IIT Kanpur, M.K. Harbola.
261. *Invited talk* on Magneto-optical imaging technique: from superconductors to plasmas at the Condensed Matter Physics Workshop held at IIT Kanpur, India, S.S. Banerjee.
262. *Invited lectures*, 33rd Mahabaleshwar Seminar on Modern Biology, Mahabaleshwar, D. Chowdhury.
263. *Invited talk*, Nonequilibrium Phenomena in Condensed Matter, Indian National Science Academy, New Delhi, D. Chowdhury.

264. *Invited lectures*, CCMT advanced Graduate School in Statistical and Condensed Matter Physics, Indian Institute of Science, Bangalore, D. Chowdhury.
265. Plenary lecture, ACRI 2008: 8th international conference on Cellular Automata for Research and Industry, Yokohama, Japan, D. Chowdhury.
266. *Invited talk*, Indo-Israeli Conference in Condensed Matter Physics, Zfat, Israel, D. Chowdhury.
267. Invited talk, Indo-Belgian Conference on Statistical Physics of Small Systems, IIT, Chennai, D. Chowdhury.
268. Invited talk, DISCOMB09: Disordered Systems, Complexity and Biology, Banaras Hindu University, Varanasi, D. Chowdhury.
269. Adiabatic quantum dynamics of quantum spin chains, International School for advanced studies, Trieste, Italy, A. Dutta.
270. Spin Dynamics in Diluted Magnets, Correlation Effects in Metallic Ferromagnets, Two invited talks of 1.5 hrs duration each presented at the Homi Bhabha Centenary DAE-BRNS National Conference & HRI School on Spintronic and Magneto-electronic Materials and Devices (NCSMMD), jointly organized by BARC, Mumbai; HRI, Allahabad; IACS, Kolkata; IoP, Bhubaneswar at Toshali Sands, Puri, A. Singh
271. Correlated Motion of Electrons and Quantum Magnetism *Invited talk* at a Symposium on Recent Trends in Condensed Matter Physics organized by the JNU - School for Physics Sciences, A. Singh
272. *Invited Talk* at TIFR-ANSO Collaboration Initiative Meeting, Mumbai, Interplay between superconductivity and magnetism: from borides to iron arsenides; Z. Hossain
273. Physics Colloquium: Interplay between superconductivity and magnetism in conventional and unconventional superconductors Organization: Dept. Physics, IIT Kanpur, Z. Hossain
274. *Invited Talk*, Biomedical Optics: Polarization Based Spectroscopy and Imaging, Condensed Matter Workshop, Conference on Laser Applications in Basic and in Applied Sciences, Santiniketan, A. Pradhan
275. *Invited Talk*, Biomedical Optics: Polarization Based Spectroscopy and Imaging, Condensed Matter Workshop, IIT Kanpur, A. Pradhan
276. *Invited Talk*, Biomedical Optics: Polarization Based Spectroscopy and Imaging, Condensed Matter Workshop, Meghnad Saha Memorial Symposium, Allahabad University, A. Pradhan
277. *Invited talk*, New Frontiers in Mesoscopic Physics and Applications using Multielement Focused Ion Beams from intense collimated plasmas, Condensed Matter Physics Workshop 2009, Department of Physics, IIT Kanpur, Sudeep Bhattacharjee.

278. *Invited talk*, One day workshop and inauguration of Ion Beam Facility for Micro and Nano Scale Science and Engineering at IIT Kanpur, Department of Physics, IIT Kanpur, Sudeep Bhattacharjee.
279. *Invited talk*, New Frontiers in Nanoscience and Technology using Microwaves for Generation of Multielement Focused Ion Beams, Horizons of Microwave and Millimeter wave Engineering and Research (Hommer), Institute of Radio Physics and Electronics, University of Calcutta., Kolkata, Sudeep Bhattacharjee.
280. *Invited talk*, Electromagnetic wave interactions with an anisotropic plasma: Non-linear phenomena, fluctuations and stability, DST-PSSI Meeting for popularization of plasma science in India, Institute for Plasma Research (IPR), Ahmedabad, Sudeep Bhattacharjee.
281. The Legacy of Nambu, Kobayashi and Maskawa given in IIT Kanpur Kaushik Bhattacharyya.
282. *Invited talk*, Nanofabrication by ion beams; Indo-French conference on Nanostructuring by ion beams under Indo French Centre for Promotion of Advanced Research (IFCPAR), Bhubaneswar, V.N. Kulkarni.
283. Introduction to Turbulence (6 lectures) at SERC school in Gauhati, M. K. Verma.
284. Workshop on Turbulence (3 lectures) at SN Bose Institute, Kolkata, M. K. Verma.
285. *Invited talk*, Entanglement in Many-electron systems at Workshop on Entanglement in Condensed Matter Physics, Matscience, Chennai V. Subrahmanyam.
286. *Invited talk*, How entangled is a quantum state? at Quantum Annealing and Quantum Correlations Workshop, SINP, Kolkata, V. Subrahmanyam.
287. Slow Dynamics in Hard Condensed Matter: a Case Study; CMP Workshop, 2009, IITK; K.P. Rajeev.

OTHER ACTIVITIES

(A) TECHNOLOGY DEVELOPED

Biological Science and Bio-engineering

1. Joint chemical and plasma sterilizer for Indian hospitals, Anupam Pal.

Civil

2. 10LPM all aluminum body air sampler (PM1.0 inertial impactor) as part of the M.Tech. thesis of Mr. Kamal K. Ujinwal, Tarun Gupta.
3. Developed Terrestrial Laser Scanning (ILRIS3D) and data processing facility at GI laboratory, Lohani B.

Electrical

4. Review of electrical clearance in air for 25 kV, 50 Hz ac overhead electric Traction system of Indian Railways, sponsored by RDSO Lucknow, Ravindra Arora.
5. A Multi modal Data Acquisition Test Bed for simultaneous recording of 4 channel video and 8 channel Audio Data, Rajesh M. Hegde.
6. Fully automated Trackside Bogie Monitoring System for measuring i) angle-of-attack using laser range finder based system, ii) lateral and vertical rail forces, Joseph John.
7. Fully operational system installed at Ajgain Railway Station (Unnao Dist.) on the Kanpur - Lucknow main track, Graphical LCD-based Human-machine interface for a digital automatic voltage regulator for captive power plants, R. Potluri and P. Sensarma.
8. A DSP-based controller platform for automatic voltage regulator applications, P. Sensarma and R. Potluri.
9. Silhouette and Structured Light Based Low Cost 3D Scanner Laser Based Pointing Device for Large Screens, K.S. Venkatesh.

Mechanical

10. Electrochemical spark based micromachining (ECSMM) technology developed for varied materials, Prof. V.K. Jain (IIT) and Prof. K.A. Misra (HBTI), Anjali. K.

11. Development of Pipe Crawler for Health Monitoring, Development of Antenna Shape Control System, B. Bhattacharya.
12. Development and analysis of foil air bearing (air cooling application), S. Sarkar.

Physics

13. A compact ion energy analyzer for the measurement of ion energy distribution, Sudeep Bhattacharjee.
14. A compact B dot and antenna probe has been developed for the measurement of electromagnetic wave fields (E and B) inside a plasma, Sudeep Bhattacharjee.
15. A fully automated Langmuir probe system using LabView and National Instruments Data Acquisition card for measurement of plasma density and electron temperature, Sudeep Bhattacharjee.
16. A triplet Einzel lens for the extraction and focusing of ion beams, Sudeep Bhattacharjee.
17. A compact multiple beamlet extraction electrode system for extracting micron to nanosize ion beamlets from the plasma, Sudeep Bhattacharjee.

(B) SOFTWARE DEVELOPED

Biological Science and Bio-engineering

18. MRI3D - An MRI to 3D reconstruction software for **gastrointestinal** diagnosis, Anupam Pal.
19. Image Based Structural Characterization System for **Fibrous Materials**, Anupam Pal.

Civil

20. SBCM: Segmentation Based Classification Module for Indian Space Research Organization (ISRO), Dikshit O.
21. RISHI: Resource Information System for Heritage of India, a Cultural Resource Management (CRM) system for documentation of Antiquities, Dikshit O.
22. DHAROHAR: Documentation for Historical and Archaeological Research on Heritage and Remains, Cultural Resource Management (CRM) system for documentation of Monuments, Dikshit O.

Electrical

23. Location sensing simulator for indoor environments, A.R. Harish.
24. File Tracking System using RFID, A.R. Harish.
25. Digital Mandi for the Indian Kisan: Web interface for accessing current mandi prices on line, Rajesh M. Hegde.
26. Internal Combustion Engine Fault Diagnosis System, P.K. Kalra.
27. Software for calculating inductance of large non-linear shunt reactors, Parthasarathi Sensarma.

Mechanical

28. Analysis of IPMC based Flexible Smart Manipulator, B. Bhattacharya.
29. LES Solver for Turbomachinery Application (LES_TURBO), S. Sarkar.

IME

30. A combination of Wiki and Blog platform for knowledge sharing, Jayanta Chatterjee, Gaurav Vinod, Nai Dishayeen.
31. Krishi Katha (Mobile and voice protocol services through internet for knowledge sharing, Abhishek Jain, Jayanta Chatterjee.

Physics

32. Pseudospectral turbulence code: TARANG, M.K. Verma.

(C) INDUSTRIES VISITED

Aerospace

33. ARDE Pune, ADRDE Agra, Ghosh A.K.
34. IGCAR, Kalpakkam, P.M. Mohite.

Chemical

35. TISCO; February, 2009, A. Ghatak.
36. Institut fur Mikrotechnik, Mainz, Germany; May 2008, D. Kunzru.
37. Thermax (Pune); August 2008, S. Panda.
38. Moser Baer (Noida); October 2008, S. Panda.
39. Université du Maine France ; Visiting Professor ; May-June 2008, YM Joshi.

Civil

40. Indian Institute of Tropical Meteorology, Pune, Tripathi, S. N.
41. Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, Tripathi, S. N.

Computer Science

42. University of Bonn, Research on data stream processing, August 22-24, 2008, Sumit Ganguly.
43. Department of CSE, University of Texas at Arlington, for collaborative research in wireless sensor networks and mobile computing, Sept 2, 2008-December 7, 2009, R.K. Ghosh.
44. Department of CSE, University of Louisville, for collaborative research in mobile agents, November 6-9, 2008, R.K. Ghosh.

Electrical

45. Department of Electrical Engineering, National Yunlin University of Science and Technology, Douliou City, Taiwan, July-August 2008, Adrish Banerjee.
46. Department of Electrical and Electronics Engineering, Chung-Ang University, Seoul, South Korea, Sept-December 2008, Adrish Banerjee
47. University of Manchester, Manchester, UK, December, 2008, UKIERI/British Council project, Animesh Biswas.
48. School of EEE at NTU, Singapore from 15 May to 15 July, 2008 as a Tan Chin Tuan Fellow, K. Chaturvedi.
49. GE India Technology Centre Private Limited, Bangalore for Consultancy from July 2- 17, 2008, S.P. Das.
50. Boeing, Seattle, USA for discussion on project proposal entitled Prognosis and Diagnosis in HVAC Systems and Rotating Machinery, P. K. Kalra.
51. TVS Motors, Hosur, Bangalore for final Installation of hardware and software for project entitled Condition Monitoring of Internal Combustion Engine, P. K. Kalra.
52. Lohia Starlinger Ltd., Chaubepur, Kanpur for technical interactions; August 2008, Joseph John.
53. BSNL Field Trip: Kalyanpur and Lakhanpur to study power plant systems used within BSNL, Santanu K. Mishra.

54. Moserbear solar cell manufacturing facility in Greater Noida, Santanu K. Mishra.
55. POWERGRID SVC station Bhauti to show the SVC station to Course participants, S. N. Singh.
56. UPSIDC Ghaziabad for Third party checking of 33kV substation at Bagpat, S. N. Singh.
57. Electrical and Computer Engineering Department at Mississippi State University USA, for one year from 1st August 2008, S. C. Srivastava.
58. Univ. of Ulster, Magee, Derry, N. Ireland, UKIERI project on Assisitive Robotics, 17 Nov to 20 Dec 2008, K.S. Venkatesh.

Mechanical

59. IIGCAR Kalpakkam, August 2008 and March 2009, I. Sharma.
60. ISRO, Trivandrum: Meeting on Lunar rover power module, December 2008, Malay K Das.
61. DST, Delhi: Meeting on Pan-IIT solar research initiative, November 2008, Malay K Das.
62. IIT Bombay: Meeting on Pan-IIT solar research initiative, February 2009, Malay K Das.
63. HAL, Lucknow: Meeting on starter-generator simulation project, 18th April, 2009, Malay K Das.
64. Nokia, Finland, October 2008, K. Deb.
65. KONE, Finland, September 2008, K. Deb.
66. Rolls Royce, UK, October 2008, K. Deb.
67. Orelogy, Australia, December 2008, K. Deb.
68. Endesa Power Company, Madrid, Spain, February 2009, K. Deb.
69. University of Waseda, Japan for Joint Research and Collaboration, March 19-28, 2009, B. Bhattacharya.
70. HAL, NAL, S. Sarkar.

Materials and Metallurgical

71. Moserbaer Photovoltaic, 18th Oct 2008, M. Katiyar.
72. Tata Steel R&D, Jamshedpur, March 2009, M. Katiyar.

IME

73. Dr. Eric Hoffman of Centre for Genetic Medicine, Washington D.C. at his invitation in the area of Bio Informatics using Data mining techniques, B. Chandra

HSS

74. Workshop on Productivity and Efficiency Measurement, Delhi School of Economics, Jan 5-7, 2009, S.K. Mathur.

Chemistry

75. Jacobs University Bremen, Bremen, Germany, During June-July 2008, J. N. Moorthy.

Mathematics

76. Department of Mathematics, University of Limoges, France, 26 May to 1 June 2008, J. Dutta.
77. Department of Mathematics, University of Perpignan, France, June 2-30, 2008, J. Dutta.
78. Dept. of Mathematics, IIT Guwahati, Dec. 17-23, 2008, A. K. Lal.
79. Department of Econometrics and Business Statistics, Monash University, Melbourne, Australia, May 18-July 12, 2008, A. Mitra.
80. IISc., Bangalore, to attend a lecture series on 'Multi-normed spaces and multi-Banach algebras', Jan. 01-06, 2009, S. R. Patel.
81. Department of Pure Mathematics, University of Leeds, Leeds, U. K.; to avail a Commonwealth fellowship; from Jan. 26 to Jul. 26, 2009, S. R. Patel.

Physics

82. NISER, Bhubaneswar; Purpose: Meeting of Academic Council; March 27-28, 2009, S.D. Joglekar
83. National Centre for Education and Research and Training, New Delhi; Purpose: To develop a book Exemplar Problems in Physics for class XII; June 4-9, 2008, S.D. Joglekar
84. T.I.F.R., Mumbai during August 2008, Z. Hossain.
85. Bright Engineering Works, Mumbai, to monitor progress of fabrication of the multielement focused ion beam system, April 7 - 10, 2009, by Ph.D student: Jose V. Mathew, Sudeep Bhattacharjee.
86. Computational Research Laboratory, Pune- December 2008; M.K. Verma.

(D) PATENTS

Biological Science and Bio-engineering

87. Process for adsorption-based separation of bioparticles from an aqueous suspension. PCT/SE 2006/000556, Mattiasson, Bo; Galaev, Igor Yu; Kumar, Ashok; Dainiak, Maria.
88. Antiseptic polymeric macroporous hydrogel based thin sheets containing iodine as wound dressing materials (Patent filed, 2009), Ashok Kumar and Era Jain.
89. Polymer Matrix Scaffold and Process for Preparation Thereof (Patent filed; IPA 3948; 2009), Ashok Kumar and Anuj Tripathi.

Chemical

90. Methods and apparatus to synthesize nano-metals impregnated hierarchal web of micro/nano carbon fibers for the adsorptive and catalytic remediation in air and liquid systems, IPA_4395, January 2009; Inventors: Nishith Verma and Ashutosh Sharma.

Electrical

91. An improved lateral bipolar junction transistor (BJT) on selective buried oxide (selbox) and a method for manufacturing the same, patent application No. 1478/DEL/2008, S. Qureshi and S. S. K. Iyer.

Mechanical

92. Enhancing blood flow images using computational fluid dynamics, jointly with ETH Zurich, PCT/EP2008/061078 (2008), international patent filed in Switzerland, K. Muralidhar.
93. Jute sandwich composites - Small scale industries, Kanpur, 2009, J. Ramkumar.
94. Rotary Abrasive Flow Machining - novel set-up, 2009, J. Ramkumar.

Materials and Metallurgical

95. Two patents currently filed and under processing, R. Balasubhramaniam.

96. A novel 2/3-Dimensional Soft-lithography technique to formulate micro-channels and evaluation of various associated mechanical and biological phenomena, under the process for filing Indian Patent, R K Singh, S. Bhattacharya and B. Basu.
97. A tundish adapted for reduction in residual metal losses and a method there of, Application No 1397/MUM/2008, Date of Application 03.07.08, D Satish Kumar, Dipak Mazumdar, B.Reddi Prasad, Sujay Pandit Patil, Abijit Sarkar, P.C.Mahapatra and Madhu Ranjan.

Chemistry

98. Optical enhancement of two-photon absorption process, Patent Application No. 704/DEL/2008, 19-03-2008, D. Goswami, Chemistry, and students Sumit Ashtekar, M.Sc. & Amit Nag, Graduate Student.

(E) AWARDS AND HONOURS

Aerospace

99. Guided a team of students from Mariampur Senior Secondary School, Kanpur, to help them secure the first position in a national competition concerning deployment of satellites solar arrays, Hari B Hablani.

Biological Science and Bio-engineering

100. Major international collaborative research project jointly funded by Research Council UK (RCUK) and Department of Science and Technology, (DST) India under the auspices of a newly launched UK-India Science Bridge Program. A combined funding to the tune of 1 million pounds (UK) Dr. P. Sinha.
101. UKIERI Award for research project on cartilage tissue engineering-2009, Ashok Kumar.
102. National Bioscience Award for Career Development for the year 2008 DBT, Ganesh S.
103. Scopus Young Scientist Award in Biological Sciences for the year 2008 (by Elsevier South Asia), Ganesh S.
104. Biotechnology Overseas Associateship, DBT, Ganesh S.

105. Invited to join the editorial board of the journal, Annals of Neurosciences (published by the Indian Academy of Neuroscience), Ganesh S.
106. IBRAO-Sfn travel fellowship award for attending the Sfn 2008 meeting in Washington, Deepti Dubey (PhD student).
107. Company Cell Biologist travel fellowship award for attending the Sfn 2008 meeting in Washington, Rajat Puri (PhD student).
108. Young Investigator Award by Joint International Society of Neurogastroenterology and Motility, Anupam Pal.
109. Young Investigator Award by Asian Neurogastroenterology and Motility Association, Anupam Pal.
110. National Bioscience Award for Career Development, 2008 by DBT, R. Sankar.

Chemical

111. The TWAS Prize in Engineering Sciences, TWAS, The Academy of Sciences for the Developing World, Trieste, Italy (2008), A Sharma.
112. BOYSCAST Fellowship, 2008-2009, JK Singh.
113. Young Engineer Award, Indian National Academy of Engineering, 2008, YM Joshi.
114. Young Scientist Platinum Jubilee Award, National Academy of Sciences (NASI) 2008, YM Joshi.

Civil

115. Co-convenor of the Composite Pavement Committee appointed by Indian Roads Congress from July, 2008 to December, 2011, Das, A.
116. Won Silver Medal for developing Limulator2 at XXI ISPRS Congress, Beijing, Lohani, Bharat.
117. Organization: Earthquake Research Institute, University of Tokyo, Japan Malik, J. N.
118. Mr. Sagnik Dey, for doctoral work at IITK received INSA Young Scientist Award in 2008, Tripathi, S. N (Guide).
119. Young Engineer Award in Environmental Engg. Division from Institution of Engineers, India (2008-2009), Tarun Gupta.
120. Best Poster Award, International Conference of Environmental Research, Dec, 2008, Tarun Gupta.
121. Young scientist startup grant from UP Council for Science and Technology, 2008, Tarun Gupta.
122. Young Scientist Fast Track grant from DST, 2008, Tarun Gupta.

Computer

123. Awarded the first Infosys Mathematics Prize, Manindra Agrawal.

Electrical

124. Erasmus-Mundus Visiting Professor and Researcher Scholarship for European Master of Research on Information and Communication Technologies (MERIT), 2008, Adrish Banerjee.
125. Received the Tan Chin Tuan Fellowship of Nanyang Technological University, Singapore, A.K. Chaturvedi.
126. Welliver Faculty Fellowship, Boeing, USA, P. K. Kalra.

Mechanical

127. Ralph R. Teetor Educational Award-2008, awarded by SAE International, USA, A.K. Agarwal.
128. BOYSCAST Fellowship - Sponsored by Department of Science and Technology, India, J. Ramkumar.
129. MCDM Edge worth-Pareto Award by International Society on Multiple Criteria, Decision Making (MCDM), 2008, K. Deb.
130. Best paper award at the ISSS 2008 for the paper Control of Instabilities of Pipes Conveying Pulsating Fluid using SMA based actuation, B. Bhattacharya.
131. DAE Young Scientist Award, 2008, J. Ramkumar.
132. Elected as the President of the Indian Society of Theoretical and Applied Mechanics (ISTAM), 2008, Gautam Biswas.
133. Chair the Automobile Technology Park under the Board for Smart Materials Research & Technology (B_SMART) of the National Program on Smart Materials, N. S. Vyas.
134. Chair a session entitled 'Digital Empowerment-Outcome of Desktop, A. Chatterjee.
135. Young Scientist Award (2007-08) - Engineering Sciences, Indian Science Congress Association, J. Ramkumar.
136. Fellow of the National Academy of Sciences, India. He has also been elected as the Indian Representative to the apex body for promotion of research in Mechanics, International Union of Theoretical and Applied Mechanics (IUTAM) for four years w.e.f January 2008, Gautam Biswas.

HSS

137. Awarded the CDN Prize for Best Research Paper presented at the Annual IACLALS conference held at Karnataka University, Dharwad, Feb. 18-20, 2009, Suchitra Mathur.
138. Charles Wallace Fellowship in Social Anthropology. By the Charles Wallace Trust, UK, Munmun Jha.
139. Abstract Award, International Association for Suicide Prevention (at the 3rd Asia Pacific Regional Conference of IASP, Hong Kong), Braj Bhushan.

Chemistry

140. Swarnajayanti Fellowship, DST India, J.K. Bera.
141. Elected to the Editorial board of Organometallics an American Chemical Society Journal, V. Chandrasekhar.
142. Shanti Swarup Bhatnagar Prize in Chemical Sciences, 2008, Awarded by CSIR, J.N. Moorthy
143. Best Poster Award at the SPIE Photonics West 2009 at San Jose, CA on the poster: Coherent Control in Multiphoton Fluorescence Imaging, A.K. De and D. Goswami.
144. Best Poster Award at the 8th National Laser Symposium to Control of laser induced molecular fragmentation using chirped ultrafast laser pulses, T. Goswami, S.K.K. Karthick and D. Goswami.
145. Best Device Oriented Paper at Photonics-2008 for: Stable optical trapping: Towards trapping single molecules, A.K. De, D. Roy and D. Goswami.

IME

146. 2008 Man of The Year, American Biographical Institute Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA, RRK Sharma.
147. OUTSTANDING EDITOR: AIMS International Journal of Management, at AIMS-6 conference, Dec 28-31, 2008; held at Greater Noida, RRK Sharma.
148. IAAP-PPA Best Psychologist Award 2008, Indian Academy of Applied Psychology and Pondicherry Psychology Association, Governing Council, Pondicherry Psychology Association, Pondicherry, N K Sharma.
149. RESEARCH EXCELLENCE AWARD 2008, awarded by WorldComp, USA, for research excellence in Software Engineering and Software Management, Subhas C. Misra.

Referee in 2008-09

150. European Journal of Operational Research, Decision, International Journal of Engineering and Science and Technology and AIMS International Journal of Management, RRK Sharma.
151. Competitive Paper Reviewer for ACR-2008 (Association for Consumer Research, USA); Reviewed two papers for the 8th International Marketing Trends Congress, Paris, January 16-17; Referee for Decision Support Systems; Reviewer for the following journals: Decision (Journal published by IIM Calcutta); IIMB Review, N. K. Sharma.
152. Editorial board, People's News Network; Consulting editor, E-Social Sciences Editorial Review Board, Decision; IMR Elite Panel of Area Editors, Rahul Varman.
153. Refereed papers for the following journals, IEEE Transactions on Fuzzy Sets and Systems, Pattern Recognition Letters, IEEE transactions on Systems Mann and Cybernetics, B. Chandra.

Honor(s)

154. Associate Editor of the Telecom Systems Journal, Springer, 2008, Subhas C. Misra.
155. Appointed as a Regional Editor of the International Journal of Business and Globalization, U.K, 2008, Subhas C. Misra.
156. *Invited* as a Keynote Speaker in the International Conference on Systems Engineering and Engineering Management, Imperial College, London, England, July 2008, Subhas C. Misra.
157. *Invited* as a Keynote Speaker in the International Computer Science and Technology Conference, San Diego, California, USA, April 2008, Subhas C. Misra.
158. Invited as a *Plenary Speaker* in the International Conference on Innovation and Management, Netherlands, December 2008, Subhas C. Misra.
159. Invited as a *Plenary Speaker*, International Conference on E-Activity and Leading Technologies, Spain, December 2008, Subhas C. Misra.
160. Invited as a *Plenary Speaker*, International Conference on Computer Design and Applications, Singapore, May 2009, Subhas C. Misra.

Materials and Metallurgical

161. Distinguished Overseas Guest Lecturer, TUBITAK, National Science Foundation, Tukey, July 2008, *invited* lectures at several Universities in Turkey), B. Basu.

162. Young Metallurgist of the Year, 2008 by Ministry of Steel, GOI, K.Biswas.
163. INSA (Indian National Science Academy) Young Scientist Award (2008), A. Garg.
164. Micrographs Contest: Zeiss prize for Best TEM micrograph in Materials Science Category, EMSI 2009, Gouthama.
165. Elected Vice-President of Electron Microscope Society of India in its 30th AGM at Jhansi, 2009, Gouthama.

Mathematics

166. Elected Secretary, Association for Logic in India, Mohua Banerjee.
167. Commonwealth Academic Staff Fellowship; awarded by the Commonwealth Scholarship and Fellowship Commission in the United Kingdom, S. R. Patel.

Physics

168. Appointed to the Academic Council of NISER, Bhubaneswar, Oct. 2008, S.D. Joglekar
169. Legion of Honor United Cultural Convention, ABI, USA June 2008; S.D. Joglekar.
170. Inclusion in Marquis' Who's who in the world and Who's who in America 2009, S. D. Joglekar.
171. Invited on advisory board for Superconductor Science and Technology for an initial period of two years from January 2009 to December 2010. S.S. Banerjee.
172. Elected Fellow, National Academy of Sciences, India (2008). D. Chowdhury.
173. Appointed Managing Editor, International Journal of Modern Physics C (World Scientific, 2008), D. Chowdhury.

(F) CONTINUING EDUCATION ACTIVITIES

Aerospace

174. Satellites Orbits, Navigation, and Stationkeeping, Hari B Hablani.
175. Spacecraft Guidance, Navigation, and Control, Hari B Hablani, plan to present them next year.

Chemical

176. DST-SERC school on Newer Optimization Techniques for Chemical Engineering Applications, IIT Kanpur, June 2008 for teachers from academic institutes and a few participants from industries, S Garg and SK Gupta.

Civil

177. Self-sponsored Short course: Principles of Transportation Engineering, February 18-20, 2009, IIT Kanpur, Dr. P. Chakroborty, Das, A.

Computer Science

178. *Invited talk* on Indexing and Searching Techniques in Databases at Dr. Ambedkar Institute of Technology for Handicapped (AITH), UP as part of the Faculty Development Program, Arnab Bhattacharya.
179. Summer Course on Program Optimization for Multi-core architectures, Sanjeev K Aggarwal.

Chemistry

180. Organised the E-learning classroom for Chattisgarh colleges in Biochemistry, Botany, Zoology and Microbiology, R. Gurunath.

Electrical

181. Short Course (Doordarshan Sponsored) on Design and Analysis of Microcontroller-based System with Embedded Technology during Aug. 11-15, 2008 at IIT Kanpur. Participants were engineers from Doordarshan and Industry, S.P. Das.
182. Offered course on Advanced VLSI Design at ABVIITM, Gwalior, from Dec 10 to Dec 15, 2008 for M.Tech students in VLSI Design, S.Qureshi.
183. Coordinator of DST SERC School on Power Quality: Monitoring, Analysis and Mitigation at IIT Kanpur, April 7-11, 2008, S. N. Singh.
184. Coordinator of Quality Improvement Program Course on Flexible AC Transmission Systems Controllers and Their Applications in Emerging Power Systems at IIT Kanpur, March 23-27, 2009, S. N. Singh.
185. Co-coordinator DST SERC School on Power Quality: Monitoring, Analysis and Mitigation at IIT Kanpur, April 7-11, 2008, S.C. Srivastava.
186. General Chair, IEEE Conference and Exhibition on Control, Communication and Automation, INDICON 2008, IIT Kanpur, December 11-13, 2008, S.C. Srivastava.

187. Organizing Committee for Winter School on Speech and Audio Processing (Speaker and Language Recognition), Organised by: ISCA, IEEE - UP and IIT Kanpur, 9-12 January 2009. S. Umesh, Rajesh Hegde, P. Sircar, D. R. Sanand, S. P. Rath and A. K. Sarkar.

Industrial & Management

188. A Short Course on Globalisation: A Critique and Possibilities beyond the Present Order, 1st -7th June 2008 Anasakti Ashram, Kausani, Almora, Rahul Varman.

Materials and Metallurgical

189. Material Advantage at IIT Kanpur chapter for students comprising (i) American Society of Metals (ASM), (ii) The minerals metals and materials society (TMS), (iii) American Ceramics Society (ACerS), and (iv) Association of Iron and Steel Technology (AIST), K. Balani.
190. Archaeomaterials in collaboration with Archaeological Survey of India, New Delhi, R. Balasubhramaniam.
191. VLFM 2009, IIM activities, K. Biswas.
192. Taught Materials part in the HAL trainees course, A. Garg.
193. VLFM 2009, IIM activities, K. Mondal.
194. HAL materials lectures, K. Mondal.
195. Lecture delivered on White Organic Light Emitting Diodes in International Winter School for Graduate Students organized jointly by IIT Kanpur and NNIN, USA, 8-18 Dec 2009, IIT Kanpur, M. Katiyar.
196. Lecture delivered on Single Layer Devices in SERC Organic Electronics Summer School, 7-18 July 2009, IIT Kanpur, M. Katiyar.
197. Lecture delivered on Overview of activities at SCDT: Organic Electronics in VLFM 20 Feb 2009, IIT Kanpur, M. Katiyar.

Mechanical

198. A one-week short course sponsored by Quality Improvement Program for engineering college teachers and industry entitled Diesel Engine Management from 18th-22nd March 2009, Avinash Kumar Agarwal.
199. Coordinated the Second Joint IITK - NTU Singapore Workshop In Mechanical, Aerospace, And Industrial Engineering during 5-6 April 2008 at IIT Kanpur (India), K. Muralidhar.

200. QIP course proposed for December 2009: Transport phenomena in Phase change and reacting systems, Malay K., Dr. S. Khandekar.
201. Micromachining was held at IITK and sponsored by AICTE New Delhi and BARC Mumbai, V.K. Jain.

Humanities and Social Sciences

202. QIP on Efficiency and Productivity Measurements, May 2009, S.K. Mathur.
203. Faculty Advisor for English Writing and Speaking, Opportunity College – the adult education programme run under the auspices of DRPG, Suchitra Mathur.
204. Social stratification and education for State Council of Educational Research and Training, Raipur, Chattisgarh, 19-20 December 2008. Participants were from the Department of Education, Chhattisgarh, Amman Madan.
205. Induction Training Workshop at Eklavya, Hoshangabad, September 2-6, 2008. Participants were the staff of Eklavya, Amman Madan.
206. Lectured in Certificate Programme on Foundations of Education, Digantar, Jaipur, July 1 - 12, 2008. Participants were middle level staff of several NGOS working on education, Amman Madan.
207. Team Building and Interpersonal Communication for CA trainees of Institute of Chartered Accountants of India, Kanpur, two sessions in Aug 2008 and Feb. 2009. L. Krishnan.

Mathematics and Statistics

208. Algebraic Logic, January 7-8, 2009, IMSc, Chennai, Mohua Banerjee Co-ordinator M. Gehrke.
209. Worked as a resource person in Advanced Training in mathematics for Lecturers (Functional Analysis-II) funded by NBHM at Bhaskaracharya Institute of Mathematics, Pune, 3-15 Dec. 2008, S. Chavan.
210. Advanced Training Programme (Supported by DST, New Delhi) Pondicherry University, June 16- 20, 2008 - Resource Person, P. Chandra.
211. Basic Training Programme in Mathematics for UG students (Supported by DST, New Delhi), BNSD College, Kanpur, Nov. 17 - 30, 2008 - Resource Person, P. Chandra.
212. Basic Training Programme in Mathematics for UG students (Supported by DST, New Delhi), BNSD College, Kanpur, Nov. 17 - 30, 2008 - Resource Person, A. K. Lal.

213. A series of lectures in the Indo-French Workshop on Harmonic Analysis, Dec. 2008, Bangalore, S. Madan.
214. Study Group Meeting on Industrial Mathematics, March 16-21, 2009, IIT Roorke, B. V. Rathish Kumar.
215. BNSD College Nov 17-30, 2008 (sponsored by DST) Basic Training Programme in Mathematics, B. V. Rathish Kumar.
216. Resident Faculty at MTTS Programme held at RIE, Mysore, May 19-June 14, 2008, G. Santhanam.

Physics

217. Lectures to Chattisgarh from the e-classroom at IIT Kanpur under the CHIPS programme and also gave lecture on Quantum-Mechanics, M.K. Harbola.

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

Aerospace

218. Member of TIFAC CORE, DST and Member of academic committee, HCE Chennai, Ghosh A.K.

Biological Science and Bio-engineering

219. Editorial board member of Biotechnology Advances, Elsevier Publishers, Ashok Kumar.
220. Executive Member for Asian Federation of Biotechnology (AFOB), Ashok Kumar.

Chemical

221. Elected Member, The Asia-Pacific Academy of Materials (APAM), (2008) [elected membership of APAM is from India, Russia, Japan, China, Uzbekistan, Korea, Taiwan and Australia], A Sharma.

Civil

222. Visiting Research Faculty, Ecole des Mines, d'Ales, France, June, 2008, Tarun Gupta.
223. Two masters level French student from Ecole des Mines, d'Ales, France are carrying out their summer research for 10 weeks under my guidance at IITK, Tarun Gupta.
224. Member, Editorial board, International Journal of Pavement Research and Technology, 2008 till date, Das, A.

Industrial & Management Engineering

225. Nominated as member of the Editorial Board of the following Journals: Journal of Marketing Trends, Paris; Decision, IIM Calcutta, N. K. Sharma.
226. Area Editor, Management Review, Indian Institute of Management Bangalore; Member, Editorial Review Board, Decision, Indian Institute of Management Calcutta; Reviewer, Annual Eastern Finance Association Meetings, B.V.Phani.
227. Member, evaluation committee for professors, Weldon School of BioMedical Engineering, (2008) Purdue University, MJIS Building, 206 S Martin Jischke Drive, West Lafayette, IN 47907-2032 USA; 001-765-494-2998, RRK Sharma.

Materials and Metallurgical

228. Editorial Board Member, International Journal of Corrosion, published by Hindawi Publishing Corporation, R. Balasubramaniam.
229. Editorial Board Member, The Open Corrosion Journal, Bentham Science Publishers, R. Balasubramaniam.
230. Appointed member of National Commission for History of Science and Research Council for History of Science, Indian National Science Academy, New Delhi, India for a period of three years, R. Balasubramaniam.
231. Editorial board member, Materials Science and Engineering: C - Materials for Biological Applications (Elsevier Journal), Editorial board of MSE-C, B. Basu.
232. Editorial board member, Journal of Materials Engineering Innovation-IJMatEI, published by Inderscience Publishers, UK, B. Basu.
233. Editorial board member, International Journal of Biomaterials, published by Hindawi Publishing Corporation, USA, B. Basu.

234. A member of the Editorial Board of the journal Powder Metallurgy published by the Institute of Materials, Minerals and Mining, London, R.K. Dube.

Mechanical

235. Member of the Editorial Board of Computational Thermal Sciences (Begell House, USA), G. Biswas.

Chemistry

236. Invited member of Editorial Board of the Journal of Molecular Liquids (published by Elsevier), A. Chandra.

Physics

237. On the selection committee for faculty recruitment at Dept of Physics, NISER, Bhubaneswar, S.D. Joglekar
238. On the committee to prepare the entire syllabus for the M.Sc. integrated program in Physics at NISER, Bhubaneswar, S.D. Joglekar.
239. On the National Organizing Committee and Convener of Local Organizing committee of a national workshop on Non-commutative Quantum Field Theory planned at Indian Institute of Technology, Kanpur during July–August 2009, S. D. Joglekar.

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

Aerospace

240. Avionics and Satellite-Based Navigation Lab, Hari B. Hablani.
241. Three-Axis Spherical Air Bearing Testbed for Multi-body Spacecraft Precision Pointing, Tracking, Maneuvers, and Attitude Determination Experiments, Hari B. Hablani.
242. Computing Facility for Nonlinear Optimization, Hari B. Hablani.
243. Computing facility for Satellite Propellant Gauging from Dynamic Response, Hari B. Hablani.

244. Attitude control using magnetic torquers, Jugnu Nanosatellite, Hari B. Hablani.
245. Attitude determination using magnetometers, Jugnu Nanosatellite, Hari B. Hablani.
246. GPS navigation, Hari B. Hablani.
247. GAGAN (Geostationary Augmented GPS Air Navigation) - an ISRO / Airports Authority of India Program, Hari B. Hablani.
248. IRNSS (Indian Regional Navigation Satellites System) - an ISRO / Airports Authority of India Program, Hari B. Hablani.
249. Chandrayan II trajectory design using ISRO's GSLV / PSLV, Hari B. Hablani.
250. Design of remote sensing satellites, Hari B. Hablani.
251. Design of ISRO's ASTROSAT - a satellite to study astrophysics of celestial sphere, Hari B. Hablani.
252. Design of a laser communication satellite, Hari B. Hablani.
253. Design of a surveillance satellite to monitor border and coast, Hari B. Hablani.
254. Deployment of satellite solar arrays / antennas, Hari B. Hablani.
255. Modeling of attitude dynamics of spacecraft with flexible solar arrays, Hari B. Hablani.
256. GAGAN, Hari B. Hablani.
257. IRNSS, Hari B. Hablani.
258. Punjab Engineering College, Chandigarh: Introduced one student, Ankita, to many facets of satellites dynamics and control; guiding her with her project related with Satellite Attitude Determination, Hari B. Hablani.
259. Contributed to a proposal for setting up a Center for Aviation and Outer Space Exploration at IITK, Hari B. Hablani.
260. Member, International Steering Committee, IUTAM-MMSS 2008, Venkatesan C.
261. Plenary Session Chairman: International Seminar Organised by NAL, Venkatesan C.

Chemical

262. Director, Rajiv Gandhi Institute of Petroleum Technology, Rai Bareli, UP, JP Gupta.
263. Member, PAC (Chemical Engineering), DST, N Delhi, D Kunzru.
264. Member, Board of Governors, Rajiv Gandhi Institute of Petroleum Technology, Rai Bareli, UP, D Kunzru.
265. Member, Editorial Board, International Journal of Chemical Engineering, D Kunzru.

266. Member, Advisory Committee, Advances in Chemical Engineering (AChemE 2009), Feb 27-28, 2009, Patiala, D Kunzru.
267. Member, Advisory Board, Elsevier (India), 2008- present, A Sharma.
268. Research Advisory Council, Hari Shankar Singhania Elastomer and Tyre Research Institute, Kankroli, 2009-2011, A Sharma.
269. Council Member (Materials), Indo-French Centre for the Promotion of Advanced Research (IFCPAR), New Delhi, 2008-2010, A. Sharma.
270. Member, Governing Body, Translational Health Science & Technology Institute (THSTI; DBT-MIT-Harvard partnership institute), Faridabad, 2008, A Sharma.
271. Member, Program Advisory Committee for International Division's Programme on Materials, Mining and Mineral Engineering, (PAC-MAT), Department of Science and Technology, New Delhi (2009-1011), A Sharma.
272. Member, The Nano Applications and Technology Advisory Group (NATAG), Department of Science & Technology, New Delhi (2008-2010), A Sharma.
273. Member, Platinum Jubilee Advisory Group of the Indian Academy of Sciences, Bangalore & Editor, Platinum Jubilee Proceedings Volume, Engineering sciences (2008), A Sharma.
274. Expert Panel Member, TATA NEN Hottest Startup Awards, National Entrepreneurship Network (2008), A. Sharma.
275. Member, PAC (Chemical Engineering), DST, N. Delhi, A. Sharma.

Civil

276. Member, Steering Committee, National Guidelines on Urban Flooding, National Disaster Management Authority (NDMA), Government of India, Jain, A.
277. Organised International School on LiDAR Technology conducted 31 March to 4 April 2008, Lohani B.
278. Serving as member of Editorial Board for Chemical Geology, Paul, D.
279. Member, Publications Committee, American Geophysical Union, Tripathi, S. N.
280. Expert Member, DST Fast Track Scientist Committee on Earth and Atmospheric Sciences, Tripathi, S. N.
281. Member, National Steering Committee, Cloud, Aerosol and Precipitation Enhancement Experiment (CAIPEX), Largest Project Ever Taken by Ministry of Earth Sciences, Tripathi, S. N.
282. Member, Geophysical Research Letter Editor Search Committee, Tripathi, S. N.

283. Lifting the Veil from Jupiter Cloud, Biplab Das, nature India, Tripathi, S. N.
284. Biting Dust in Mars, Biplab Das, nature India, Tripathi, S. N.
285. Our work was extensively referred in the article Aerosol: The Earth's Sun Shield, N. Gopal Raj, The Hindu Survey of Environment, 2008, Tripathi, S. N.
286. Strengths 2009 (student magazine), faculty advisor, Tarun Gupta.
287. Installed ICP-OES (iCAP6300 model, Thermo Inc.), CARE grant, Tarun Gupta.
288. *Invited lecture* on Late Quaternary evolution of the Ganga plains, India: myths and misconceptions, new developments and future directions. Fluvial Archives Group (FLAG) meeting, Budapest, Hungary, Sept., 2008
289. Pradhan H Prasad memorial lecture on Kosi Floods: system failure and human tragedy, Patna, 30th November, 2008.
290. *Invited talk* on River dynamics (avulsion), hydrological variability and climate change: insights from the Gangetic rivers, IISc Bangalore Centenary workshop on Earth and Climate Sciences, 14th Dec., 2008.
291. *Invited lecture* on Role of basin geomorphology and application of river style framework for sustainable river management with special reference to north Bihar, Patna seminar on Floods: problems and challenges, 23 Feb., 2009.
292. *Invited lecture* on Land degradation and drainage development: Role of geomorphology, National workshop on Basin wise Drainage Master Plan for Uttar Pradesh-Priorities & Actions, Lucknow, 2-3 March, 2009.

Electrical

293. Chaired three sessions in IFAC World Congress, Seoul, July 2008, Laxmidhar Behera.
294. Chaired one session in IEEE MSC, San Antonio, USA, Sept 2008, Laxmidhar Behera.

Industrial & Management

295. Visiting Professor, National Yunlin University of Science and Technology, Taiwan. (May 2008 - June 2008; Dec 2008), RRK Sharma.
296. Visiting Researcher, Statistik und Ökonometrie at Justus-Liebig-Universität Gießen, Gießen, GERMANY. (13th December - 17th December, 2008), RN Sengupta.

Materials and Metallurgical

297. The Department invited Dr. Paul Craddock of the British Museum, England

as visiting faculty between December 2008 and March 2009. During his stay in the Department, Dr. Paul Craddock taught the course on History Of Science and Technology of Metallurgy with R. Balasubramaniam. In addition, he took part in various academic activities in the institute during his stay as Visiting Faculty in the MME Department.

Mechanical

298. Visiting Professor at the University of Western Ontario, Canada, May 08-June 08, G. Biswas.
299. Visiting Professor at the ENSAM, Angers, France, November 25 - December 09, G. Biswas.
300. Involved in the Solar Energy Research Enclave initiative, IIT Kanpur, Malay K Das.
301. Manager, Jugnu Nano satellite project, IIT Kanpur, Anjali K.
302. Acting Head, Centre for Mechatronics, for 4 terms of duration of 1-2 weeks, Anjali K.
303. Personal interview for TV media for Programmable Educational, Anjali K.
304. Aajtak TV channel, aired on 13.1.2008, Anjali K.
305. E TV Uttarakhand channel, in 'Exclusive News', aired on 15.1.2008, Anjali K.
306. Personal interview for print media for Programmable Educational, Anjali K.
307. Amar Ujala, Kanpur, 7.1.2008, Anjali K.
308. Hindustan Times, Kanpur, 11.2.2008, Anjali K.
309. Telegraph, Kolkata (on Robotics Opportunities), interviewed on 31.1.2008, Anjali K.
310. Hindi article on 'Badhe Hai Shodh Ke Avasar' (On Augmented Research Opportunities), in Hindustan Times, 28.5.2008, Anjali K.
311. Visited 18th World Book Fair held in New Delhi during 7-8 Feb, 2008, Anjali K.
312. Counselor Committee member, IIT Kanpur, Anjali K.

Humanities and Social Sciences

313. Initiation Grant Project (DORD, IITK) entitled Productivity Analysis of the ICT Sector and Linkages in Some Countries of South Asia East Asia, Australia and New Zealand, A DEA and Malmquist Analysis- S.K. Mathur.

314. Faculty Advisor for the Students' Gymkhana Cultural Council (2008-09), Suchitra Mathur.
315. Member of the Advisory Board for NERD, the Students' Science Magazine, Suchitra Mathur.
316. Organized International Conference (in the capacity of Convener) on Liberalizing Research in Science and Technology: Studies in Science Policy, at IIT Kanpur: in collaboration with the Centre for Sociological and Science-studies Research (IHST) Russian Academy of Sciences, St. Petersburg, Russia, February 4-6, 2009, B.K. Pattnaik.
317. Consultancy Project - Modeling and Impact Assessment Component of the India- Climate Change, Impact and Adaptation of Coastal Cities Study: The Case of Kolkata, P.M. Prasad.
318. Organized Workshop on Patent Drafting at IIT Kanpur - Sponsored by the Ministry of Human Resource Development under IPR Chair, November 7-9, 2008, P.M. Prasad
319. Coordinated DIES Partnership Project under German Academic Exchange Service (DAAD) subject-specific funding (Euros 48000) to promote academic interaction between University of Applied Sciences, Darmstadt, Germany and Indian Institute of Technology, Kanpur, India - P.M. Prasad.
320. Member, Institute DRP&G Committee, since 2008 - P.M. Prasad.
321. Visiting Faculty at Department of Sociology and Social Work, University of Kashmir - Amman Madan.
322. Visiting Faculty in MA programme in Elementary Education at the Tata Institute of Social Sciences - Amman Madan.
323. Member of advisory committee of Pragat Shikshan Sansthan, Phaltan, Amman Madan.
324. Member of advisory committee of Early Literacy Project, New Delhi, Amman Madan.
325. Member of advisory committee, Vidya Bhawan Centre for Societal Studies, Udaipur, Amman Madan.
326. Risks in a technocracy, Hindi version published in Srote: Vigyan evam Technology Features, December 2008, Amman Madan.
327. Labeling and the creation of Pariahs: A Pardhi story, Hindi version published in Srote: Vigyan evam Technology Features, April 2008, Amman Madan.

Physics

328. A 1.7 MV accelerator has been installed and inaugurated in October 2008 with the help of funding of about 15 Crores from DST. The objective is

to provide a common platform for researchers in the field of Physics, Materials Science, Electrical Engineering, Mechanical Engineering, Bioscience, etc. to work on the following themes: To build an infrastructure for Research and Development of ion beam based cutting edge technologies with an emphasis on applications of focused ion beams in micro and nanofabrication and diagnosis of materials; To enhance the understanding of ion-nano/micro matter interaction and harness it for developing ion beam based modern and futuristic technologies; To develop focused ion beam based technologies suitable for prototype fabrication of MEMS and NEMS devices for engineering, biological and biomedical applications, V.N. Kulkarni

Chemistry

- 329. Guided summer research fellow of IASc, Bangalore, F. A. Khan.
- 330. *Invited lectures* on Chemical reaction dynamics: from transition state to RRKM and beyond at the Indian Association for Cultivation of Science, Kolkata, December 2008, K. Srihari.
- 331. Invited to Chair the opening session of the APS Focus meeting on Transition States in Chemistry, Physics, and Astrophysics, March 2009, Pittsburg, USA, K. Srihari.

Mathematics and Statistics

- 332. Programme Committee Member, IFSA-EUSFLAT 2009, July 20-24, 2009, Lisbon, Portugal, Mohua Banerjee.
- 333. Programme Committee Member, Third Indian Conference on Logic and its Applications (ICLA 2009), January 7-11, 2009, IMSc, Chennai, Mohua Banerjee.
- 334. Editorial Board Member of the Journal of Modern Applied Statistical Methods, D. Kundu.
- 335. Editorial Board Member of the Journal: Statistics and Its Applications, D. Kundu.
- 336. D. Kundu, Editorial Board Member of the Journal: Communications in Statistics - Theory and Methods, D. Kundu.
- 337. Editorial Board Member of the Journal: Communications in Statistics - Simulation and Computation, D. Kundu.

338. Awarded DST SERC Project titled 'Analyzing Non-Stationary Signals' from the Department of Science & Technology, Government of India, Amit Mitra and Debasis Kundu.
339. Organized 23rd annual meeting of the Ramanujan Mathematical Society at IIT Kanpur in May 2008, S. K. Ray.
340. A DRDO project titled Development of nodal platform for quantitative methods for MRI and MR Spectroscopy for the study of human brain with a grant of Rs. 35,00,000/- (Rupees Thirty Five Lakhs Only), R. K. S. Rathore.