

- **Dr. Rajendra Prasad**, Associate Professor, Electrical Engineering Department received Best Paper Award for the paper, "Biased Reduced Order Models using Dominant Pole Retention and Genetic Algorithm", coauthored by Dr. Nidhi Singh and Prof. H. O. Gupta in National Conference on Control and Instrumentation, held at Department of Electrical Engineering, NIT, Kurukshetra, Dec. 29 - 30, 2007.
- **Dr. Neelesh Kumar Jain**, Assistant Professor, Mechanical and Industrial Engineering Department, has been awarded the BOYSCAST Fellowship for the year 2007 - 08 by Department of Science and Technology (DST), Govt. of India, to conduct advanced research in the field of microfabrication / micromachining at Oklahoma State University (OSU), Stillwater, Oklahoma for a duration of six months.
- **Dr. R. P. Maheshwari**, Associate Professor, Department of Electrical Engineering has been awarded Certificate of Merit by The Institution of Engineers (India) for his research paper entitled, "Protection of Double-circuit Line using Wavelet Transform", published in the Journal of The Institution of Engineers (India) during 2006 - 2007.
- Research Paper on "Operating Experience of Black Liquor Desilication at APPM Unit: Coastal" co-authored by N. A. Padmanabham & R. K. Nair (Enmas Andritz Pvt. Ltd.), M. C. Bansal & U. K. Ghosh (DPT, IITR), P. K. Suri & S. S. Mukherjee (APPM) was awarded Shalimar Wires Industries Ltd. 1<sup>st</sup> Best Paper award in the Annual Seminar of Indian Pulp and Paper Technical Association, held at Kolkata on Feb. 8-9, 2008.
- **Dr. V. K. Goel**, and coworkers received the Railway Board Prize for the paper entitled, 'Dynamic Behaviour of Railway Coach and Bogie Frame using Finite Element Analysis'.
- **Dr. Kusum Deep**, Associate Professor, Department of Mathematics, has been nominated a Senior Member of the Operations Research Society of India.
- **Dr. Ankush Mittal**, Associate Professor, Electronics and Computer Engineering Department, was conferred Indian Science Congress Association (ISCA) Young Scientist Award, 2007 in the field of Information and Communication Science & Technology (including Computer Sciences). The award carries a sum of Rs. 25,000/- and a Certificate of merit.
- **Dr. Dharmendra Singh**, Assoc. Prof., Electronics and Computer Engineering Deptt. chaired a session in the International Conference of Radio Sciences at Jodhpur from Feb. 27 to 29, 2008 and he also delivered an invited lecture on the topic "Importance of Satellite Based Radar Images to Monitor Change Detection on Earth Surface".
- **Dr. Kusum Deep**, Associate Professor, Department of Mathematics, presented two invited talks entitled "Genetic Algorithms I" and "Genetic Algorithms II" during the Workshop on Optimization and its Applications, held at University of Delhi, during Nov. 29 - Dec. 3, 2007, organized by the Delhi Chapter of the Operations Research Society of India. On this occasion she received a special felicitation in honour of late Prof. M. C. Puri.
- On the occasion of the 40<sup>th</sup> Annual Convention of the Operations Research Society of India. (Golden Jubilee Celebrations) held at Indian National Science Academy, New Delhi during December 46, 2007, she presented an

invited talk entitled "Recent Advances In Real Coded Genetic Algorithms". She also chaired a session entitled "HEURISTICS".

- **Ms. Gunjan Mittal**, Research Scholar, Electronics and Computer Engineering Deptt., got the Consolation Prize for presenting the paper entitled, "Microwave Response on Surface Roughness at X-band for Remote Sensing" in the International Conference on Radio Sciences at Jodhpur from Feb. 27 to 29, 2008.
- **Ms. V. Vijaya Chamundeeswari**, Research Scholar, Electronics & Computer Engineering Deptt. has received The Google India "Women in Engineering" award 2008, with a cash prize of Rs. 75000/-. She received the Award during the ceremony held at Bangalore on Feb. 29, 2008.
- **Mr. Mandla V. Ravibabu**, Research Scholar, Department of Civil Engineering, has been awarded "Australian Endeavour Research Fellow" for Post Doctoral Research for the year 2008.

## VISIT ABROAD

Prof. Nayan Sharma of WRD&M visited Friedrich Schiller University in Germany during January 13 -17, 2008 and made presentation there on the research progress achieved as the Team Leader of the Indian partner (IITRoorkee) at the Mid Term Review meeting of the 19 member International Consortium of the European Commission sponsored BRAHMATWINN Research Project, which is dedicated for concurrent study on the vulnerability of the Brahmaputra River in South Asia and the Danube River in Europe due to climate change phenomenon. Prof. Sharma was also invited by Salzburg University in Austria during January 18-23, 2008 for sharing various aspects of his applied research experience on the Brahmaputra River with faculty and students there.

## सेवानिवृत्त (फरवरी 2008)

- 1-श्री नकली राम, वरिष्ठ परिचर, भूकम्प अभियान्त्रिकी विभाग
- 2-श्री विद्या प्रकाश, वरिष्ठ परिचर, एम०एम०ई०डी० विभाग
- 3-श्री मनसब (सी०पी०एफ०), फिटर, निर्माण विभाग

## सहनशीलता महापुरुषों का मुख्य लक्षण है।

Matter for **Samvaad** may be sent at [samvaad@iitr.ernet.in](mailto:samvaad@iitr.ernet.in)  
**Samvaad** can also be seen at [www.iitr.ernet.in](http://www.iitr.ernet.in)

### Editorial Board :

**Prof. Surendra Kumar** Ph. : 285270 e-mail : deanfap\_p@iitr.ernet.in  
**Prof. S.P. Gupta** Ph. : 285231 e-mail : spgfee@iitr.ernet.in  
**Prof. Ravi Bhushan** Ph. : 285795 e-mail : rbushfcy@iitr.ernet.in  
**Dr. Praveen Kumar** Ph. : 285470 e-mail : pkaerfce@iitr.ernet.in

IIT Roorkee (For internal circulation only)

### Designer & Printer :

Jain Printing Press, RKE Ph. : 262722, 269999 Mob. : 9837506234

# संवाद

भारतीय प्रौद्योगिकी संस्थान रुड़की

# Samvaad

Indian Institute of Technology Roorkee

निर्गम 53 (अंक 2) फरवरी 2008

Vol. 48 (No.2) Feb. 2008

## MoU between IITR and FUB



Prof. Dieter Lenzen and Prof. S. C. Saxena signing the MoU

A Memorandum of Understanding (MoU) between IIT Roorkee and Freie Universität Berlin (FUB) was signed on 28<sup>th</sup> February 2008 by Professor S. C. Saxena, Director, IIT Roorkee and Prof. Dr. Dieter Lenzen, President, Freie University Berlin (FUB). Thereafter, Professor G. S. Singh, Deptt. of Physics, presented a brief account of the salient features of the MoU.

The signing ceremony coincided with the opening of a liaison office of Freie University Berlin (FUB) in New Delhi to make its character truly international as it has been declared by the German Government as one of nine elite institutions in Germany. More than hundred persons, including functionaries of the Embassy and academicians from various institutions in Delhi, were invited by the Freie University Berlin (FUB). The Welcome Address for the ceremony was given by Mr. Julius Georg Luy, the Chargé d'Affaires a. i. of the Federal Republic of Germany.

## QIP Workshop On Creative Art and Design in Technical Education



Prof. Kulkarni presenting a bouquet to Prof. H. K. Verma

A one day Workshop was organized by Dr. Ila Gupta, Asstt. Professor, Department of Architecture & Planning on Feb. 23, 2008 at the Centre for Continuing Education to evolve an Elective course 'Creative Art and Design' for B. Tech. students. The Workshop was inaugurated by Professor H. K. Verma, Dy. Director. More than 55 delegates from different parts of the country participated. Leading experts from academia and industry delivered invited lectures. Professor S. S. Bhatti, former Principal, Chandigarh College of Architecture spoke on **what should an architect learn in art and design to become a holistic professional?** Professor Mandeep Singh, Head, Industrial Design, School of Planning and Architecture (SPA), New Delhi and Ms. Manjari Sharma, visiting Faculty at the SPA spoke on **Design and Creativity**. Their presentation was followed by demonstration of a few selected products created from waste material by a team of six M. Des. students of SPA. Mr. Amit Krishn Gulati, famous industrial design professional and founder-director of Incubis, an innovation - driven, architecture, industrial design, retail and engineering consultancy based in New Delhi, spoke on **Thinking On Paper-Creative Art in Architecture and Design Praxis**. Mr. Gulati is designer of 'Ginger' the Taj Group of Hotels, Apollo Hospitals, Barista Coffee Bars and several other famous brands. Mr. Anuj Prasad, CEO & Principal Designer, Desmania Design Private Limited, New Delhi & Mumbai, spoke on **Emotional Connect with Objects**. Professor S. Y. Kulkarni, Head, Department of Architecture & Planning spoke on **Art and Design**.





बधिर बच्चे मुख्य अतिथि प्रो० विनोद कुमार के साथ

26 जनवरी के शुभ अवसर पर विद्यालय में ध्वजारोहण कार्यक्रम हेतु विद्यालय की प्रबन्ध समिति के उपाध्यक्ष श्री विनोद कुमार जी मुख्य अतिथि के रूप में विद्यालय में पधारे। समिति के प्रबन्धक महोदय प्रो० सुरेन्द्र कुमार जी, संयुक्त प्रबन्धक सचिव प्रो० माहेश्वरी जी व उनकी पत्नी व सदस्य भी उपस्थित थे।

माननीय मुख्य अतिथि जी ने ध्वजारोहण कर अतीत भारत की याद व वर्तमान भारत के बढ़ते कदमों की आहट के विषय में आख्यान दिया। विद्यालय के बच्चों ने रंगारंग कार्यक्रम के अतिरिक्त देश भक्ति पर आधारित व मंत्रमुग्ध कर देने वाला "सर्व धर्म समभाव" नाटक का मंचन किया। मुख्य अतिथि द्वारा प्रतिभागियों को पुरस्कृत भी किया गया। प्रबन्ध समिति के सदस्यों द्वारा लड्डू वितरित किए गए। अन्त में सब अतिथियों ने बच्चों द्वारा तैयार किए गए व्यंजनों का आनन्द भी लिया।

## E-Summit Activity

The Entrepreneurship Development Cell (EDC) of STEP organised an E-Summit during February 21 to 24, 2008 which consisted of 5 major events - the Panel Discussion, Case Study, Mentor Clinic, Start-up Lectures and the B-Quiz.



Discussion during E-Summit

Living up to everyone's expectations, all events were great crowd pullers. The eminent panel comprising of Dr. V. K. Nangia (Professor and HOD, DOMS), Mr. Hemant Arora (Auditor and CA to ONGC), Mr. Alok Gupta (IITR Alumnus and entrepreneur) and Mr. C. M. Arora (Chief Manager, PNB) enlightened the audience on 'How To Start A Company'.

About 50 teams competed using their business skills to negotiate tough real-life situations. In Mentor Clinic, those who were already thinking of pursuing a career as an entrepreneur got an opportunity to fine tune their plans. The panel had Mr. Sanjay Nagi (Co founder MarketIns) and Mr. Manoj Sharma (Entrepreneur).

## "कल्पना की याद कर रोए बधिर बच्चे"

पूरे विश्व को अपनी अन्तरिक्ष यात्रा से गौरवान्वित करने वाली कल्पना चावला के पिता श्री बी० एल० चावला 22.02.2008 को रुड़की बधिर विद्यालय के बच्चों से मिलें।

बच्चों के साथ भावनात्मक बातचीत करते हुए उन्होंने बताया कि कल्पना बचपन से ही तीक्ष्ण बुद्धि वाली थी उसकी तथा उसके साथियों की सोच व परिश्रम ने ऐसा महान कार्य कर दिखाया। प्रकृति ने प्रत्येक बच्चे का मस्तिक, आकार स्वरूप, रंगरूप तथा सोच भिन्न बनाए हैं। सबके अद्भुत मेल से ही संसार का निर्माण व प्रगति हुई है। उन्होंने बधिर बच्चों को प्रेरणा दी कि वे भी परिश्रम करके पढ़ लिखकर अपनी बुद्धि से कुछ ऐसा अनोखा कार्य कर सकते हैं। आवश्यकता है केवल सही अवसर की।

अत्यन्त साधारण मध्यम वर्गीय परिवार में पले बढ़े चावला जी अपनी पुत्री के असाधारण एवं गौरवमयी इतिहास के साथ यह बताना नहीं भूलें कि अपनी पारिवारिक स्थिति के कारण वह पढ़ाई नहीं कर सके एवं कैसे उन्होंने 14 वर्ष की अल्पायु से हरियाणा के करनाल शहर में छोटे - छोटे काम करके कमाना शुरू कर दिया और आज उनकी अभूतपूर्व प्रतिभा वाली पुत्री ने ऐसा कर दिखाया कि बच्चे - बच्चे की जुबान पर उसका नाम है। कल्पना की याद में भावविभोर होकर उनके पिता के साथ - साथ बधिर बच्चों भी रो पड़े।

## NOTIFICATION

No. Estt. (A)/0790/D-63(III) Dt : 18 Feb. 2008

On the recommendation of the Director, the Chairman, Board of Governors, has approved the following policy for the acceptance of Directorship/ Membership of Public Sector Undertakings and Government Enterprises / Organizations for one Undertakings/ Enterprises / Organization by the faculty members of IIT Roorkee.

The Institute may permit its faculty members to accept the Directorship/Membership of the Board of Directors of such Public Sector Undertakings (PSU)/Enterprises/Organizations, which are directly or indirectly controlled by the Government and such appointments to the Board of Directors are made with the consent of the State / Central Government. The Institute should permit the faculty members to undertake such work unless there is any special reason for denying it. Their functioning would involve participation in the meetings, and if they receive any sitting fee for this purpose, it would be treated as earning under the consultancy rules for Type I projects.

Anything arising out of such Directorship/ Membership would have no financial or any other kind of liability on IIT Roorkee. In the case of any conflict of interest between the concerned PSU / Enterprises/ Organization and Indian Institute of Technology Roorkee, the concerned Faculty Member would seek instructions of the Director.

### Forthcoming Events

Event	Organized by	Period
Atomic Energy Nuclear Physics Symposium-2008	Physics Department	Dec. 21 to 26, 2008

## Consultancy Projects

w.e.f. 26.01.2008 to 25.02.2008  
(Above Rs.1.00 Lac or More)

- **Er. Arun Kumar, AHEC, SHP Expert Organization related support to Uttarakhand Government, Secretary, Deptt. of Energy, Govt. of Uttarakhand, Dehradun, Rs. 45.00 lacs. Performance Testing of Baner III Small Hydro Electric Project 5 MW in HP, Vamshi Industrial Power Limited, UGF, Antriksh Bhawan, 22 K.G. Marg, New Delhi, Rs. 5.00 lacs. Conservation Plan for River Kshipra in Ujjain (MP), Commissioner, Municipal Corporation Ujjain, Madhya Pradesh, Rs. 68.39 lacs. Performance Testing of MGHE Tailrace Project (2 x 11 MW) in Karnataka, Ambuthirtha Power Private Limited, 2<sup>nd</sup> Floor, Craig Park Road, Bangalore, Rs. 9.00 lacs.**
- **Er. M. K. Singhal, AHEC, Technical Support for Construction of Borgaon (Borbalada) SHP Projects Executed by Village Samithi in Uttaranchal, Uttaranchal Renewable Energy Development Agency, Dehradun, Rs. 1.70 lacs.**
- **Dr. R. P. Saini, AHEC, Performance Testing of Drinidhar Small Hydro Electric Project 5 MW in HP, Vamshi Industrial Power Limited, UGF, Antriksh Bhawan, 22 K.G. Marg, New Delhi, Rs. 5.00 lacs.**
- **Dr. R. K. Jain, APD, Design of Residence at Bageshwar, Ex. Engineer, PWD, Bageshwar, Rs. 1.00 lacs.**
- **Prof. M. K. Mittal, CED, Design of Right Kolda Distributary Aqueduct on Kote Escape, Executive Engineer, Bulandshahar Division, Ganga Canal, Bulandshahar, Rs. 2.00 lacs.**
- **Dr. N. M. Bhandari, CED, Proof Checking of Design of 2 Flyovers in Ahmedabad, Ahmedabad Municipal corporation, Rs. 12.00 lacs.**
- **Dr. A. Upadhyay, CED, Design of Super structure 3-Cell Box culvert at Km 12 on NH-72A, Executive Engineer, National Highway Division, PWD, Ghaziabad, Rs. 1.30 lacs.**
- **Dr. J. Prasad, CED, Proof Checking of Structural Design of Buildings of Devender Singh Institute of Technology & Management, Chairman, Devender Singh Institute of Technology and Management, Meerut Road, Ghaziabad, Rs. 1.00 lacs.**
- **Dr. U. C. Kothiyari, CED, Design of Lining and under drainage of NCR Channel, Executive Engineer, Cons. Div. No. 23, Panipat, Haryana, Rs. 4.00 lacs.**
- **Dr. P. K. Garg, CED, Generation of Contour Map of Sun Temple Site, CBRI, Roorkee, Rs. 2.22 lacs.**
- **Dr. A. A. Kazmi, CED, EIA Studies of Kashipur Industrial Estate, Rs. 5.00 lacs. Environmental Monitoring for EIA Studies of Kashipur Industrial Estate, Rs. 1.25 lacs., SIDCUL, Dehradun,**
- **Dr. S. Mittal, CED, Soil Tests in Patanjali Ashram, M/s Patanjali Yog Peeth Trust, Haridwar, Rs. 1.15 lacs. Load Tests at Srinagar Hydro Power Project, APHC, Srinagar, Rs. 1.90 lacs.**
- **Dr. Satish Chandra, CED, Tests on WBM Materials from Lansdowne, PWD, Lansdowne, Rs. 3.12 lacs.**
- **Prof. S. S. Jain, CED, Development of State Highways in Motihari in the State of Bihar, Assistant Executive Engineer, RSVY, Motihari (Bihar), Rs. 5.75 lacs.**
- **Dr. N. K. Samadhiya, CED, Plate Load Tests at Naitwar Mori Hydro Electric Project, Deputy Manager (Geology), Naitwar Mori and Jakhol Hydro Electric Project, Rs. 2.40 lacs. Laboratory testing of Rock samples for Geo Mech. Properties and Recommendations on Strength and Deformation Parameter of Major Underground Caverns for Vishnugad Pipalkoti HE Project, General Manager, Design- (Civil & HM), THDC Ltd., Rishikesh, Rs. 7.80 lacs.**
- **Dr. Kamal Jain, CED, Service for Stake Survey, ALPHAGEO (India) Ltd., Hyderabad, Rs. 1.78 lacs.**
- **Dr. G. Ramasamy, CED, Soil Investigations Srinagar Garhwal, Civil Construction Div., UPCL, Srinagar, Rs. 1.00 lacs.**
- **Dr. Umesh Kumar Sharma, CED, Structural Damage Evaluation of Raw Mill Building, ACC Ltd., Gagal Cement Works, P.O. Barmana, Distt. Bilaspur (H.P.), Rs. 1.50 lacs.**
- **Dr. V. K. Agarwal, CHED, Energy Conservation in Furnace, Asahi India Glass Ltd., Village Latherdeva Hoon, Manglaur Jhabrera Road, Roorkee, Rs. 3.56 lacs.**
- **Dr. I. M. Mishra, CHED, Evaluation of DGFASLI Plan Schemes, DGFASLI, Govt. of India, CLI Building, N.S. Mankikar Marg, Sion, Mumbai, Rs. 6.27 lacs.**
- **Dr. D. K. Paul, EQD, Site Specific Study Jangi Thopan Powari HE Project (960 MW), Himachal Pradesh, Barkel Kinnaur Power Pvt. Ltd., Shimla, Himachal Pradesh, Rs. 5.00 Lacs. 330 MW Shrinagar Hydro Electric Project Specific Design Earthquake Parameters for the project site, Alaknanda Hydro Power Company Limited, Dehradun, Rs. 5.00 lacs.**
- **Dr. R. Anbalagan, ESD, Water diversion & stability studies in Srinagar, UPRNN, Srinagar, Rs. 2.45 lacs.**
- **Dr. N. K. Goel, HYD, Checking of the Parameter adopted and Design of Storm Water Drainage System, Jaipur Development Authority, Jaipur, Rs. 7.00 lacs.**
- **Dr. V. K. Goel, MIED, Vetting of Thermal Calculation for Cooling Towers, Paharpur Cooling Towers Limited, Sahibabad, Rs. 5.50 lacs.**
- **Dr. P. M. Pathak, MIED, Modelling of Raw Mill Separator and Analysis of its Vibration Caused by Executive Blade Erosion, ACC Limited, Gagal Cement Works, P.O. Barmana 174013, District Bilaspur (H.P.), Rs. 3.50 lacs.**
- **Dr. D. Das, WRDM, Preparation of DPR for Sarju III SHP, Uttar Bharat Hydro Power (P) Ltd., Rs. 4.30 lacs.**



## Participation in Conferences/Workshops/Seminars/Symposiums

- Dr. A. K. Saxena, Prof. Deptt. of Electronics & Computer Engineering and a member of International Advisory Board presented an invited paper and also chaired two sessions at IEEE International Conference on VLSI and Embedded Systems held at Sardar Patel Institute of Technology, Mumbai from Feb. 4-5, 2008.
- Dr. Rajendra Prasad, Associate Prof., Electrical Engineering Department attended National Conference on Control and Instrumentation during Dec. 29-30, 2007 at NIT, Kurukshetra and chaired one technical session & presented following Papers :
  - S. K. Tomar and Rajendra Prasad, "Discrete System Reduction using Routh Approximation and Modified Cauer Form".
  - Nidhi Singh, Rajendra Prasad and H. O. Gupta, "Biased Reduced Order Models using Dominant Pole Retention & Genetic Algorithm".
  - C. B. Vishwakarma and Rajendra Prasad, "Order Reduction using Factor Division Algorithm and Polynomial Derivatives".
- Dr. (Ms.) Durga Toshniwal, Asstt. Prof., Department of Electronics & Computer Engg., delivered an invited talk on "Time Series Data Mining - Issues and Trends" at the National Conference on "Applications and Trends in Data Warehousing, Data Mining and Data Modeling" (DWDMM 2008), held during Feb. 9-10, 2008 at Forest Research Institute, Dehradun, Uttarakhand.
- Dr. U. P. Singh, Associate Professor, Department of Chemistry participated and chaired one session in the Symposium on Modern Trends in Inorganic Chemistry MTIC-XII held during Dec. 68, 2007 at the Department of Chemistry, Indian Institute of Technology, Madras. He also presented two posters entitled, "Zinc complexes containing different pyrazole ligands: Effect of steric hindrance on structure" and "Synthesis, structural characterization and superoxide dismutase activity of some nickel (II) complexes".
  - Dr. K. Ghosh, Assistant Professor, Department of Chemistry delivered an invited talk on "Biochemical characterization of a damage response protein from *S. Cerevisiae*". He also presented a poster entitled "Synthesis, structure and properties of mononuclear manganese complexes" in the above symposium.
- Dr. Kamal Jain, Asstt. Professor, and Mr. Mulegeta Feyissa, Post Graduate Student, Department of Civil Engineering, presented a poster entitled "Urban Growth Prediction using Artificial Neural Network and GIS" at International Conference of MapIndia 2008, held at India Expo Center, New Delhi, during February 6 - 8, 2008, and was awarded the "Best Student Poster" Award.
  - Dr. Kamal Jain, Asstt. Professor, Department of Civil Engineering, and Mr. Mandla V. Ravibabu, Research Scholar, presented technical paper on "Accuracy aspect of DTM available from Google Earth", in the above conference.
- Mr. Mandla V. Ravibabu, Research Scholar, Department of Civil Engineering, presented his research paper entitled "Evaluation of Landscape characteristics derived from DEM" co-authored by Dr. Kamal Jain, Asstt. Professor, CED and Poonam Negi, Research Scholar, CED, at 7<sup>th</sup> International Association of Landscape Ecology (IALE) World Congress, during July 8 -12, 2007, at Wageningen, The Netherlands.
- Dr. Rajat Rastogi, Assistant Professor, Department of Civil Engineering attended the first Indo-US symposium on 'Advances in Mass Transit and Travel Behaviour Research (MTTBR - 08)' at IIT Guwahati during February 12 -15, 2008. He chaired a paper session on 'Travel Demand Forecasting and Behavioural Analysis' on February 12, 2008. He presented a talk as invited speaker on topic 'Issues in Data collection and Non-Motorized Transport Planning' on February 15, 2008. He also acted as a Rapporteur for Workshop-A: New Methods and Technology applications for Transportation Data collection and Analysis on February 15, 2008. Research and Post Graduate students of IITs and NITs attended the symposium.
- Dr. Anupam Chakrabarti, Asstt. Professor, Civil Engineering Department, presented following two papers:
  - "Vibration of imperfect sandwich plates having laminated stiff composite layers", at International and INCCOM - 6 Conference on "Future Trends in Composite Materials and Processing", held IIT Kanpur, December 12-14, 2007, India.
  - "Finite Element Analysis of FRP composite plates with inter-laminar slips", at CAM2TBST, Central Building Research Institute, Roorkee, February 7 - 8, 2008, India.
- Dr. Anindya Jayanta Mishra, Lecturer, Department of Humanities and Social Sciences, presented a Paper, "A Study of the Family Linkage of the Old Age Home Residents of Orissa" in the XXXIII All India Sociological Conference, organised by the Department of Sociology, Karnataka University, Dharwad held from November 29 to December 1, 2007.
- Dr. Amalendu Patnaik, Assistant Professor, Department of Electronics and Computer Engineering attended the Asia - Pacific Microwave Conference 2008 held at Bangkok, Thailand during December 11-14, 2007. He was invited as a speaker for the half-day (4 hours) pre-conference tutorial on the topic "Application of Neural Networks in Antenna Engineering."
- Dr. Daya Shanker, Assistant Professor, Department of Earthquake Engineering, attended "Evison Symposium on Seismogenesis & Earthquake Forecasting" organized by Victoria University of Wellington and sponsored by GNS Science & Earthquake Commission, February 18-22, 2008 in Wellington, New Zealand. Dr. Shanker, presented his research paper entitled "Searching For An Earthquake Precursor: A Case Study of Precursory Swarm as A Real Seismic Pattern Before Major Shocks".
- Dr. Renu Bhargava, Professor, Department of Civil Engineering attended part III of the programme on the Alternatives for Sustainable Sanitation, sponsored and financed by Sida (Sweden), at Bangalore during February 11-22, 2008. As a resource person she delivered a talk on "Vermitechnology for Waste Management" and also presented a professional project on "Grey water Treatment and reuse at a residence".
- Prof. A. K. Jain, Physics Department, delivered an invited talk on "Recent Developments in Nuclear Structure Theory" at the Diamond Jubilee Seminar on Advances in Physics, held from Feb. 28 - March 1, 2008.
- Dr. G. Ramasamy, Professor of Civil Engineering, visited Knogu Engineering College, Erode on February 22, 2008 and delivered a Lecture on "Challenges and Opportunities" in Civil Engineering, to the students and faculty of Civil Engineering. He also spoke on the opportunities available at the Deptt. of Civil Engineering, IIT Roorkee for higher studies at Post Graduate and Doctor levels.
- Prof. D. B. Goel, Emeritus Fellow, Department of Metallurgical & Materials Engineering attended the 3<sup>rd</sup> International Conference on "Siltng Problems in Hydropower Projects", organized by Central Board of Irrigation & Power at New Delhi on February 27, 2008 and delivered a keynote lecture in the Plenary Session on "Metallurgy of erosion of under water parts in hydro electric projects".
- Dr. Binod Mishra, Assistant Professor, Department of Humanities & Social Sciences attended NCERT sponsored three day seminar on **R. K. Narayan** at Regional Institute of Education, Mysore from Feb. 26 - 28, 2008. He presented his paper "From Man to Superman: Showcasing Indian Ethos and Familial Concerns in R. K. Narayan's *The Guide*".

## CPCB Training Programme



Dignitaries on Dias during Valedictory Function

A Training Programme on "Recent Trends in Environmental Management Strategies in Petroleum, Petrochemical and Fertilizer Industries" was organised by Prof. I. D. Mall, Deptt. of Chemical Engineering at the Continuing Education Centre of the institute. The programme was sponsored by Central Pollution Control Board, New Delhi and was attended by Pollution Control Board Officers and Engineers from many industries, namely Reliance Industries, Indogulf Fertilizers, and Chambal Fertilizers. Dr. M. O. Garg, Director, Indian Institute of Petroleum, Dehradun, and Mr. Sushil Kumar, President, Reliance Industries were Chief Guests at the Inaugural function, while Mr. J. D. Desai, Vice President and Head, Environmental Division, Reliance Industries Limited, and Dr. T. Swaminathan, Professor, IIT Chennai, and Mr. Vijay Kumar, Member Secretary, Uttaranchal Pollution Control Board, Dehradun graced the Valedictory function as Guests of honour.

## Sponsored Research Projects

w.e.f. 26.01.2008 to 25.02.2008  
(Above 5.00 Lac or More)

- Dr. P. K. Ghosh, Prof. & Coordinator IPR Cell, **TePP Outreach Centre (TUC) at IIT Roorkee**, Deptt. of Scientific and Industrial Research, and Technology Information, Forecasting and Assessment Council (TIFIC), New Delhi, Rs. 8.00 lacs.
- Dr. P. S. Mishra, Prof., Met. & Mat. Engg. Department, **Development of Fabrication Materials for Brake Pads/Shoes used in Light, Medium and Heavy Duty Automobiles**, DST, Rs. 16.77 lacs.
- Dr. P. S. Mishra, Prof., Dr. K. Chandra, Assoc. Prof., Met. & Mat. Engineering Department, **To Develop and Characterize Iron-Phosphorous Based Alloys by Powder Forging**, DRDO, Rs. 43.80 lacs.

