



2006-07/III

# G R A P E V I N E



A quarterly newsletter of Indian Institute of Technology Kanpur for alumni and friends

## Institute Milestones

### Honorary Fellow Award

Prof. K. R. Sarma was awarded "Honorary Fellow" for 2006 on March 16, 2007. The award was instituted in 2005 by the Board of Governors IIT Kanpur to honor the veterans who have contributed towards the multifaceted development of the Institute. Prof. Sarma joined IIT Kanpur in 1961 after completing B.Tech. (1957) and M.Tech. (1958) from IIT Kharagpur. He obtained his Ph.D. from Cornell University. Prof. Sarma taught at IIT Kanpur for over four decades and played a key role in the technological development of the country by participating in steering committees of the Department of Science and Technology (DST). More details at:

<http://www.iitk.ac.in/infocell/iitk/krsarmacitation.htm>



### Padma Shree Award to Shri Giriraj Kishore

Shri Giriraj Kishore, former Registrar of IIT Kanpur, was conferred the Padma Shree Award on January 26, 2007 for his notable contribution to Literature and Education. He has also served as the Head, Centre for Creative Writing and Publication at IIT Kanpur. Shri Kishore superannuated from the service of the Institute in 1997.

### Post Graduate Program for Executives on Visionary Leadership in Manufacturing

A joint IIM-IIT Post Graduate Program for Executives for Visionary Leadership in Manufacturing is being launched for the first time in India in August 2007. Beginning under the auspices of National Manufacturing Competitiveness Council and the Ministry of Human Resource Development, the program includes course work at IIM Calcutta, IIT Kanpur and IIT Madras for 32 weeks, followed by industry internship for 13 weeks and industry visits in India and abroad for 7 weeks. The program will involve development of leadership and management skills together with cutting edge technology awareness and proficiency. The program is implemented in co-operation with Confederation of Indian Industries (CII) as well as Government of Japan. Besides faculty members of IITs and IIMs, some international as well as national experts from academia and industry are likely to train the participants of this program. More details about this program are available at: <http://www.iitk.ac.in/vlm/>

### IITK REACH Symposium 2007

IIT Kanpur organized its first annual symposium showcasing the ongoing research on campus in order to promote interdisciplinary research and interaction amongst faculty members and students of the institute. The series named IITK REACH (REseArch and CHallenges) Symposium was held during March 7-10, 2007 at Hotel Timber Trail Heights in Parwanoo, Himachal Pradesh. The focus of the symposium was on three themes of research in the institute:

*Art of Experiments, Controlling and Living with Vibrations, and Materials of Tomorrow.* Faculties specializing in various fields were invited to speak on their work. In addition, some students and distinguished external researchers also participated in the event. More details of the event available at: <http://www.cse.iitk.ac.in/users/manindra/Website/index.htm>



### Summer Undergraduate Research

IIT Kanpur has signed a Memorandum of Understanding (MOU) with the *Ecolé Centrale Paris, France* for student exchange. As part of this understanding, up to three students of IIT Kanpur will participate in the *Summer Research* at Ecolé Centrale ([www.ecp.fr](http://www.ecp.fr)) during the summer of 2007 and up to three students of Ecolé Centrale will undertake research at IIT Kanpur.

## Support from Donors

**Satish Chandra Agarwal Chair:** Kamal Agarwal (BT/CE/72) has established a faculty chair at IIT Kanpur to honour his father. The chair is open to all departments of the Institute. Agarwal received his MBA (Finance) from the University of Maryland in 1975. He joined a Washington based company of Ship Brokers dealing primarily with United States Government Food Aid programs and became a partner in the firm in 1983. In 1991 he founded a new ship brokerage company, Phoenix Chartering Inc. in Washington. He sold the company and retired in January 2005. Presently Agarwal lives in McLean, Virginia, USA.



**Arun Kumar Chair:** Friends and admirers of Late Sri Arun Kumar (BT/EE/1969) have established a faculty chair in his memory. The chair is open to all departments of the Institute. Kumar obtained his masters in Computer Science from the University of Missouri, U.S.A. He was the President and Managing Director of Flextronics Software Systems and the Chairman of the Executive Council of NASSCOM (National Association of Software & Service Companies) in 2002-03. He was also Chairman of the American Business Council in the Telecommunications Group, and had been an active member of the Governing Council of the University of Delhi's Institute of Informatics and Communication. He was the recipient of various corporate awards including the coveted Hughes Chairman's Honor Award for Excellence and the CEO of the Year award from the Aspac HRD Congress.



## Donations

The financial year 2006-07 was enormously successful in terms of alumni donations and the Annual Gift Programme. The number of alumni donors more than doubled and moved up from 295 in 2005-06 to 628 in 2006-07. A total of 789 donors contributed to the tune of Rs. 5.4 crore in 2006-07 as compared to Rs. 2.5 crore in 2005-06. Eleven faculty chairs and seventeen undergraduate scholarships were set up. 71 students were provided travel support for participation in conferences overseas and 226 students were given cash awards for publishing journal papers.

## Alumni News and Events

### Director's visit to Japan:

Prof. Sanjay G. Dhande, Director, visited Japan during March 3-7, 2007 to encourage science and technology collaboration between the two countries. At a luncheon organized at the Foreign Correspondents' Club of Japan by Sanjeev Sinha (M. Sc. Int/Phy/95) leader of the Pan IIT Alumni Association of Japan, Prof. Dhande addressed the illustrious gathering on the "IIT Phenomenon" narrating the history of all IITs.



**Distinguished Alumni Awards 2006-2007:** Five alumni were felicitated with Distinguished Alumnus Awards (DAA) on Alumni Day February 27, 2007.

**Mr. Ravinder Nath Akhoury (BT/EE/68):** Akhoury has been awarded the DAA for his outstanding managerial career and ongoing contribution to the world of Information Technology. He has been in the investment management business since 1973 and is currently Chairman and Chief Executive Officer of MacKay Shields, a multiproduct investment management firm with approximately \$32 billion of assets under management. Akhoury is also a member of the Executive Management Committee of New York Life Insurance Company.



**Mr. Narendra Kumar Kale (MT/CSE/76):** Kale has been awarded the DAA for excellence in entrepreneurship. He is presently the Chairman of Kale Consultants, a partnership started in 1982, which is now India's leading developer of application software solutions and services. Kale has also been a Consultant to the Computerization Committee of the Indian Banks Association and a member of the Rangarajan Committee for Computerization of Banks. As a founder of Kale Consultants, he has provided the company a clear strategic focus and a unique business model that has helped produce world class models in India.

**Professor Ashutosh Sharma (BT/CHE/82):** Sharma has been awarded the DAA for his outstanding contributions and academic achievements in the field of Chemical Engineering. A Professor of Chemical Engineering at IIT Kanpur, he is also the Coordinator of the Nano Sciences Center. He has authored over 130 peer-reviewed publications, of which the ten most cited have received over 1000 citations. He has received several other awards and honours including Friedrich Wilhelm Bessel Research Award of the Alexander von Humboldt Foundation (2006), and the Shanti Swarup Bhatnagar Prize in Engineering Sciences (2002).



**Mr. Rajeev Chawla (BT/EE/84):** Chawla has been awarded the DAA for his significant contributions towards implementing e-governance in the country. He is the Secretary (e-Governance), Government of Karnataka. He has designed and implemented India's largest e-Governance project, BHOOMI which won the highest award given for the public service by United Nations, namely, United Nations Public Services Award for the year 2006. Chawla has now implemented another project "NEMMADI", which will deliver various e-Governance services to the citizens of Karnataka. He has also been selected for the first Prime Minister's Award for Excellence in Public Administration.

**Dr. Rajiv Desai (BT/ME/82):** Desai has been awarded the DAA for his outstanding contribution to Research and Development. He is the founder CEO of 3Di, a software services company with operations in US, Japan and India. He also heads Embedio, a leader in the development of next generation embedded operating system and technologies for converged media devices. Desai has received several awards including the NASA's Exceptional Achievement Medal for leadership in developing new space mission for NASA and JPL's Lew Allen Award for Excellence in Research.





**Satyendra K. Dubey Memorial Award:** Professor Ganesh P. Bagaria (BT/EE/82, MT/EE/85) is the recipient of the Satyendra Kumar Dubey Memorial Award for 2006-07 for the work carried out by him as a teacher, social activist and thinker. He teaches Electronics and Communication Engineering in HBTI Kanpur. For the last 10 years Bagaria has been working through his camps called Jeevan Vidya Shivirs conducted for all sections of the society. He has worked with farmers of Bundelkhand, adivasis of Jhabua, academicians and engineering students.

## Workshops & Lectures

**National Workshop on Intellectual Property Rights:** SIDBI Innovation and Incubation Centre at IIT Kanpur organized a two day National Workshop on Intellectual Property Rights on March 31 - April 1, 2007. The highpoint of the program was a panel discussion by Right Livelihood Award winner, Dr. Vandana Shiva, Mr. Raghendra Saha (BT/AE/71) head of the Patent Facilitating Centre at TIFAC, Dr. Rajendra Bera (Ph.D./AE/75), and Mr. R. K. Gupta head Intellectual Property Management Division Council of Scientific and Industrial Research (CSIR). The workshop aimed at creating more learning material on IPR. More details at: <http://www.iitk.ac.in/iprworkshop/>

**Innovators Workshop:** SIDBI Innovation and Incubation Centre (SIIC), IIT Kanpur organized an Innovators Workshop on April 6, 2007 in collaboration with Megabucks-IIT Kanpur. The workshop was aimed to encourage and support untapped creativity of individual innovators and to help the individual innovators to become technology based entrepreneurs.



**24th Kelkar Alumni Lecture:** Mr. Gurcharan Das, former CEO of Proctor and Gamble and a well known columnist, delivered a lecture titled "India's Future" for the 24<sup>th</sup> Kelkar Alumni Lecture Series held on March 17, 2007. Das is the author of *India Unbound*, and *The Elephant Paradigm*. His lecture covered India's growth in the last 25 years in terms of economics, literacy, productivity, and per capita income. Details are available at: <http://www.iitk.ac.in/infocell/iitk/kelkarlecture/>

## Distinguished Lecture Series

With generous support of our alumni and well wishers, the following lectures series have been conducted during 2006-07 as on 30<sup>th</sup> April:

- ✎ **P. D. Murthy Memorial Distinguished Speaker Lecture Series:** Dr. Avinash Verma, University of California, Berkeley on "Overview of Risk-neutral Valuation" on January 19, 2007, Dr. Chinmoy Ghosh, Professor in Finance in the Business School, University of Connecticut, USA on "Effect of Liberalization of Foreign Investment limits: Evidence from the Indian Banking Sector" on January 5, 2007 and Mr. S. Varadarajan, MBA, IIT Kanpur on "Foreign Exchange Risk Management - Fundamentals" on January 5, 2007. Lecture Series funded by Mr. Ram Mohan (BT/AE/70).
- ✎ **Prof. Ramchandra Rao Dasari Lecture Series:** Prof. Pallab K. Bhattacharya, University of Michigan, USA on "Quantum Dot Laser: The Ultimate Light Source" on November 06, 2006. Lecture Series funded by Dr. Satish Dasari, S/o Prof. Ramachandra Rao Dasari, Former Faculty Member of IITK.
- ✎ **Annual Exhibition-cum-Lecture Series under M. Des. Programme:** Annual Design Exposition (ADEX'07) on the "Confluence of Technology with Handicrafts - its challenges and opportunities" from March 30, 2007 to April 1, 2007. Lecture series funded by Dr. R. C. Malhotra.
- ✎ **Prof. E. C. Subba Rao Lecture Series:** Dr. Radhanath P. Das, HydroMet Prog., Bhubaneshwar on "Scale-up and commercialization of processes developed in a laboratory: Case study of nickel and cobalt extraction processes developed at RRL Bhubaneshwar" on November 21, 2006. Lecture series funded by Mr. Ram Ramkumar (BT/MME/72).
- ✎ **Prof. C. N. R. Rao Lecture Series:** Prof. R. C. Budhani, IITK Kanpur, on "Low-Dimensional Superconducting and Magnetic Materials of Proven Technological Relevance" on February 28, 2007. Lecture Series funded by C. N. R. Rao, Chairman BOG, IIT Kanpur.
- ✎ **Dr. M. A. Pai Lecture Series:** Prof. K.R. Padiyar, Indian Institute of Science Bangalore, on "Applications of Energy Functions for Dynamic Security and Control of Power Systems" on November 13, 2006. Lecture Series funded by Prof. Vijay Vittal (ME/EE/79).
- ✎ **J. Mahanty Lecture Series in Physics:** Prof. B. M. Arora, Tata Institute of Fundamental Research, Mumbai on "Semiconductor Nanostructures" on April 12, 2007. Lecture series funded by Mr. Siddhartha Mahanty, S/o Prof. J. Mahanty, former faculty of IIT Kanpur.
- ✎ **Petro Tel Distinguished Lecture Series:** Prof. J. B. Joshi, Director, UICT, Mumbai on "The Core Purpose and The Core Values" on April 12, 2006. Lecture series funded by Mr. Anil Chopra (BT/CHE/76).
- ✎ **Dr. R. S. Pandey Lecture Series:** Prof. Stephane Zaleski, Universite Pierre et Marie Curie, Paris, France on "Thermo-Fluid Dynamics: Do We Solve the Right Kind of Equation?" on April 10, 2007 and Dr. Franz Durst on "Numerical Simulation of Complex Flows with Interfaces" on December 6, 2006. Lecture Series funded by Dr. Rakesh Pandey (BT/ME/78).
- ✎ **Dr. Devendra Shukla Lecture Series:** Prof. E. Sreedharan, Managing Director, Delhi Metro Rail Corporation, New Delhi on "Successful Implementation of Delhi Metro Rail Corporation Project: Motivating Factors" on November 03, 2006. Lecture Series funded by Mr. Devendra Shukla (BT/CE/67).
- ✎ **Endowment Lecture Series in Department of Chemistry:** Prof. Goverdhan Mehta, FNA, FRS, former Director, Indian Institute of Science, Bangalore, on "A Celebration of Chemistry: Joy of Organic Synthesis" on November 8, 2006.

## Student Achievements

- ✎ Goldman Sachs Global Leaders Award: Subhonmesh Bose (BT/EE) and Varun Jain (BT/EE) have been chosen for the "Goldman Sachs Global Leaders Award" for the year 2006-07. The program recognizes their outstanding abilities and will award each Global Leader U.S. \$3,000. They would also attend a week long workshop at the International Institute of Education in New York. More details at: [http://www.iie.org/programs/global\\_leaders/india/index.html](http://www.iie.org/programs/global_leaders/india/index.html)
- ✎ Ruchi Sharma (Ph.D./HSS) has received one of the best paper awards under the Student Paper Competition of IPR Workshop held at IITK during March 31- April 1, 2007. The paper titled "Internationalization of Intellectual Property Rights and its Impact on Developing Countries: A Review" bagged a certificate and a cash award of Rs.2500.
- ✎ The IIT Kanpur team comprising of Saurabh Karwal (M.Des.), Rohit Prakash (BT/MME), Ashish Bhatia (MT dual/EE), and Kush Sharma (BT/MME) won various prizes in Cognizance '07 - the Technical Festival of IIT Roorkee held during March 23-25, 2007.



- ✎ Srirupa Chatterjee (Ph.D./HSS) has been chosen to attend the prestigious School of Criticism and Theory (SCT) at Cornell University Ithaca, USA, to be held during June 17- July 26, 2007. She is among the select few to obtain full scholarship for this program.
- ✎ Suddhasheel Ghosh (Ph.D./CE) working under the supervision of Prof. Bharat Lohani won the Best Poster Presentation Award at the "Map World Forum 2007" held in Hyderabad during January 22-25, 2007. The topic of his presentation was "Development of a 3D visualization system for LiDAR data."
- ✎ Nilesh Mishra (RA/CSE), Raj Kumar (MT/EE), Phani Kumar Valiveti (MT/EE), and Hemanth Haridas (MT/CSE) won the best poster/demo award for their work titled "BRIMON: Railway Bridge Monitoring," at WISARD 2007, a workshop in COMSWARE 2007 held during January 7-8 in Bangalore.
- ✎ Nilesh Mishra (RA/CSE), working under the supervision of Dr. Kameswari Chebrolu of Electrical Engineering and Dr. Bhaskaran Raman of Computer Science Engineering, has won the best poster award for his presentation titled "Wake-on-WLAN" at TechVista 2007, Microsoft Research India's annual technical Symposium held on January 23rd in Bangalore.

## Faculty News

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- ✎ Dr. V. Chandrashekhar (Chemistry) has been awarded the J. C. Bose Fellowship of the Dept. of Science and Technology.
- ✎ Dr. Jayant K. Singh (Chemical Engineering) has been awarded the Young Scientist Award of the Department of Atomic Energy-BNRS.
- ✎ Dr. Mahendra K. Verma (Physics) has been awarded the prestigious Swarnajayanti Fellowship.
- ✎ Dr. Sanjay Mittal (Aerospace Engineering) and Dr. Veejendra K. Yadav (Chemistry) have been elected Fellows of the Indian Academy of Sciences.



Dr. V. Chandrashekhar



Dr. Jayant K. Singh



Dr. Mahendra K. Verma



Dr. Sanjay Mittal



Dr. Veejendra K. Yadav

### FACULTY AWARDS AND HONOURS

Dr. N. G. R. Iyenger (Aerospace Engineering) has been awarded the Fellowship of the Indian Association for Computational Mathematics. He has also been elected as one of the Vice-Presidents of the Aeronautical Society of India.

Dr. Ashok K. Mittal (Industrial and Management Engineering) has been elected the President of the Operations Research Society of India. He has also been elected the Vice President and Director of Quality Circle Forum of India.

Dr. J. P. Gupta (Chemical Engineering) has been invited to join the editorial board of *International Journal of Oil, Gas and Coal Technology*, published by Inderscience.

Dr. V. K. Jain (Mechanical Engineering) has been invited to join the

editorial board of *The Open Mechanical Engineering Journal* to be published by Bentham Science Publishers Ltd.

Dr. Bhaskar Dasgupta (Mechanical Engineering) has been invited to join the review board of the *International Journal of Computational Science*.

Dr. R. R. K. Sharma (Industrial and Management Engineering) has been invited to join the editorial review board of the journal *AIMS International Journal of Management*, published by the Association of Indian Management Scholars.

Dr. V. K. Jain (Mechanical Engineering) has been invited to join the editorial board of the journal *International Journal of Machine Tools and Manufacture*, published by Elsevier Publishers.

### BOOK RELEASE

- ✎ *Quantum Computing Back Action*, Dr. Debabrata Goswami. Published as the American Institute of Physics Conference Proceedings 864.
- ✎ *Assembly Language Programming in GNU/Linux for IA32 Architectures*, Dr. Rajat Moona. Published by Prentice-Hall of India Pvt. Ltd. Delhi.
- ✎ *Elastic Stability of Structural Elements*, Dr. N. G. R. Iyengar. Published by Macmillan India Ltd.
- ✎ *Czochnalski Growth of Oxide Crystals: Numerical Simulation and Experiments*, Dr. K. Muralidhar and Dr. Jyotirmay Banerjee. Published by Techscience Press, Georgia (USA)

## Upcoming Events

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- ✎ National Convention on Value Education through Jeevan Vidya, May 22-24, 2007
- ✎ IITK Certificate in Network Management, June 21 - July 15, 2007
- ✎ National Conference on Wind Tunnel Testing (NCWT-2007), July 13-14, 2007
- ✎ Course on Nuclear Power Engineering (NPE 2007), July 09-14, 2007
- ✎ Course on Industrial Organization and Policy: Contemporary Theory and Practices, July 16-20, 2007
- ✎ National Conference on Materials, Inventory & Supply Chain Management, October 6-7, 2007
- ✎ International Conference on the Applications of the Mössbauer Effect, October 14-19, 2007
- ✎ Short Term Course on Spray and Combustion, December 3-7, 2007
- ✎ International Conference on Metals and Alloys: Past, Present and Future, December 07-10, 2007
- ✎ International and INCCOM-6 Conference on Future Trends in Composite Materials and Processing, December 12-14, 2007
- ✎ The Seventeenth Annual Conference of the National Academy of Psychology (NAoP), December 17-19, 2007
- ✎ International Workshop on Advances in Combustion Science and Technology, December 31st 2007-January 2nd 2008