Leadership Lecture Series 2007

Leadership Lecture Series 2007, with several thought provoking, highly inspiring and motivating sessions came to an end with the concluding session addressed by Dr. Kiran Bedi, IPS, Director General, Bureau of Police Research and Training, on 17th February 2007.

As part of the efforts to make this course very effective, leaders and achievers from corporate/education/media/industry associations/NGO sectors of our country are invited to share their thoughts and experiences on this subject and how they have provided leadership to their organizations, what are the nature of challenges they have faced, how did they overcome and what contribution they have been able to make towards the growth of their organizations.

The class was divided into 10 groups of 5-6 students in each and a leader was chosen by each group. Each group is given an opportunity to have an exclusive session to interact with their chosen leader and raise all the questions that remain to be answered. At the end, each group submits a term paper on their understanding and findings about the chosen leader. This is evaluated and considered for awarding the grade on this subject. Students gain valuable exposure to the leadership styles, values held by the leaders and to the entrepreneurial world, and their interests are often piqued to pursue new ideas or industries.

This event Leadership Lecture Series gave an excellent opportunity to the students, faculty and members of IIT community, to listen to and interact with some of the finest minds and a galaxy of speakers, who are leaders and achievers in their own field of activity. The list included Mr. Pramod Chaudhuri, Chairman, Praj Industries, Pune and Distinguished Alumnus, IITB, Mr. Adi Godrej, Chairman, Godrej Industries Ltd., Mr. Vijay Mahajan, Managing Director and CEO, BASIX India, Mr. Uday Kotak, Vice-Chairman & Managing Director, Kotak Mahindra Bank, Dr. Ashok Ganguly, Chairman, ICICI One Source Limited, Former Director of Unilever Plc, Former Chairman, HLL Ltd., Ms. Naina Lal Kidwai, CEO, HSBC (India), Mr. Sunil Bharti Mittal, Chairman, Bharti Enterprises, Mr. Narayan Vaghul, Chairman, ICICI Bank, Mr. Jamshyd Godrej, Chairman, Godrej & Boyce Co. Ltd, Dr. Shailendra Mehta, and Dr. Kiran Bedi, IPS, Director General, Bureau of Police Research and Training.

This event, for past six years, have made a small but highly impacting contribution towards confidence building and shaping up minds of young and old learners alike.

This innovative way of learning from leaders was conceptualized by Prof. Atanu Ghosh of SIMSOM and he has been able to coordinate and implement this course since its inception in 2000, consistently with high level of effectiveness.
Awards & Distinctions

Prof. Ashok Misra, Director IIT Bombay was conferred the CHEMTECH-CEW 'Outstanding Contribution' Award in the field of education by CHEMTECH Foundation. The citation presented on the occasion stated: “Having made outstanding contributions as a teacher and a researcher for over three decades, he is the driving force at IIT for its major achievements.” The award was presented at a function held at Hotel ITC Grand Maratha Sheraton on 8th February, 2007.

Prof. Amiya Kumar Pani was invited to become a member of the Editorial Board of Field Institute Electronic Research Journal “Math-in-Industry Case Studies” (MICS). He Chaired a session as well as Chaired the valedictory session in the International Conference on Industrial and Applied Mathematics held at NIS University, Baroda during January 16-18, 2007. He was selected as One of the judges of the Best paper presentation in the MICS Conference held in Vyasaganar College, Jaipur during January 28-29. He also Chaired a Session in the Symposium on Recent Advances in Mathematical Sciences during January 16-17, 2007 held in IIT Kanpur.

Electrical Engineering Department

Prof. V. Ramgopal Rao was invited to deliver a plenary talk titled “Micro-fabricated Bio-sensors for Cardiac Diagnostics” at the 2007 National Review and Coordination Meeting held during Feb 21-23, 2007 in Hyderbad for the Nanoscience and Technology Initiative (NSTI), DST, Govt. of India.

Department of Humanities and Social Sciences

Prof. Milind Malshe was invited by the Faculty of Fine Arts, the M S University of Baroda as a Visiting Professor under the UGC/DSA Programme to deliver lectures on Western Aesthetics (11-22 December, 2006). He was also invited by the Centre for Contemporary Theory, Baroda, to make a presentation on “Multiculturalism and Aesthetic Theory” on 22nd December, 2006.

Prof. Malshe was invited by the Academic Staff College and the Dept. of English, University of Mumbai, to deliver the lectures on “Noam Chomsky's Theory of Grammar and Language Acquisition”, at the Refresher Course on “Critical Approaches to Language Learning, Teaching and Testing” on 24th December, 2006.

Prof. K. Narayanan delivered the Presidential Address on the theme “India in the Emerging Global Order” in the Annual International Conference of the Academy of International Business [India Chapter] held in Xavier Institute of Management, Bhubaneswar during January 29 to 31, 2007. He presented a paper titled “Technological Efforts, Firm Size and Exports in Basic Chemical Industry in India” [co-authored with Ms. Savita Bhat] as a Seminar to honour Prof. N.S. Siddharthan on “India and Globalisation”, organised jointly by the Institute of Economic Growth and Research and Information Systems [RIS], New Delhi in New Delhi on 1st
February 2007. Prof. Narayanan was invited as a Resource Person in the Expert Group meeting on Courses relating to Indian Economy at the Indira Gandhi National Open University (IGNOU), New Delhi on February 12, 2007.

Prof. L. M. Bhole delivered a keynote address on "Reflections on Eleventh Five Year Plan Approach Paper" on February 16, 2007 at the National Conference on Business Optimisation Research Wave organized jointly by NITIE and IIT, Bombay.

Department of Mathematics


Dr. V. D. Sharma, delivered a keynote address at ISTE Training Programme on Application Orientation in Engineering Mathematics and Mathematical Modelling, held at National Institute of Technology, Surat on December 26, 2006. He also delivered the Platinum Jubilee Lecture on Resonantly Interacting Waves at the 94th Indian Science Congress held at Anna University, Tamilnadu during January 3-7, 2007.

Prof. Manoj Kumar Keshari gave an invited talk on “Cancellation of projective modules over affine algebras” in the conference on “Projective Modules and complete intersections” held in TIFR Mumbai from 28th-30th December, 2006.


Department of Mechanical Engineering

Prof. B. Ravi has been selected as an International Member of the ASME Bio-Manufacturing Technical Committee.

Dept. of Metallurgical Engg. and Materials Science

Prof. A. N. Tiwari, attended the International Conference and Exhibition on Emerging Solutions through Power Metallurgy in Automotive and Engaging Industry and 33rd ATM of PMAI (PM-07) during February 9th to 11th, 2007 at Noida, New Delhi. He chaired a technical session on 'Non Ferrous PM and Nano Materials' where the following papers were presented: I. Pankaj Kumar, A. N. Tiwari and Parag Bhargava: 'Phosphate Bonded Alumina: Effects of Porosity on Mechanical Properties'. II. A. N. Tiwari, C. S. C. Reddy, V. Gopinathand M. M. Godkhindi: 'Preparation of Nanocrystalline Stainless Steel Powders by Mechanical Alloying'. III. Abhay Sharma and A. N. Tiwari: 'Mechanically Alloyed Nanocrystalline Fe2Al5 Intermetallic Powder'.

Prof. A. S. Khanna, was invited by Pittsburgh Paint & Glass to give a talk on Paint Related Activities and presentation on the Role of Nanoparticles Addition in Waterborne Coatings at IIT Bombay on February 12, 2007 and he presented a paper on the Development of Waterborne Coatings by Sol-Gel method at the international conference on Surface Protective Coating. The Power of Paint. PACE 2007 held at Dallas, Texas USA from 11th to 14th February, 2007.

Department of Physics

Prof. U. A. Yajnik delivered the Prof. N. R. Kamath Memorial Lecture, St. Xavier's College titled "General Relativity and Cosmology: a perspective" on January 29, 2007. He organised the session on cosmology, on February 5, 2007 at the 24th Annual Meeting of the Indian Association for General Relativity and Gravitation, Jamia Millia University, New Delhi. He also attended the Joint Indo-German Workshop on Neutrino Physics (Jigsaw 07) at TIFR on February 16-19, 2007 and delivered a talk on "Gauged B-L Symmetry and Cosmology".

S J M School of Management


Prof. Atanu Ghosh was invited to deliver a talk on "The Challenges for SSI in dealing with fashion products" during the Technical seminars and Industrial exhibition cum vendor development meet organised by the Small Scale Service Institute, Hubli from 22-26 February, 2007. He also gave a talk on Leadership at SDM Institute of Management Development, Mysore and at the Department of Management Studies, IISC. Bangalore on 26th February, 2007.

The International Seminar on Mineral Processing Technology, MPT 2007 was held at IIT Bombay during February 22-24th, 2007. The seminar convened by profs. N. K. Khosla and G. N. Jadhav, was jointly organized by the
Mineral Processing Technology, 2007

Departments of Metallurgical Engineering and Materials Science, Earth Sciences and Chemical Engineering Department under the aegis of Indian Institute of Mineral Engineers, Vedanta and the Ashapura Group were among the chief sponsors of MPT2007.

The seminar was inaugurated by Dr. Anil Kakodkar, Chairman BOG, IIT Bombay, who highlighted the need to conserve and utilize the mineral resources: while the guest of honor, Mr. Chetan Shah, MD Ashapura Group, spoke on the need to translate technology into wealth for the country. The seminar had 390 participants including 35 overseas delegates. There were 20 plenary and keynote addresses and 155 papers were presented in 30 technical sessions during the seminar. An Industrial exhibition was arranged on this occasion, which had 16 participating industries from major mining and mineral processing companies, as well as mineral processing equipment and instrumentation manufacturers from India and abroad.


Lalithambal Narasaran, Research Scholar in the H & SS Department presented a paper titled "International Trade Disputes: Indian Experience with Special Reference to Anti-Dumping" (co-authored with Prof. K. Narayanan) in the Annual International Conference of the Academy of International Business [India Chapter] held in Xavier Institute of Management, Bhubaneswar during January 29 to 31, 2007.

Priyadarshini Dash, Research Scholar in the H & SS Department won the Best Doctoral Paper Award for the paper that he presented titled "Behaviour of Current Account in India: Trend, Determinants and its Implications for Reserves Management" (co-authored with Prof. K. Narayanan) in the Annual International Conference of the Academy of International Business [India Chapter] held in Xavier Institute of Management, Bhubaneswar during January 29 to 31, 2007.

Manish M. Jogalekar, Research Scholar in Dept of Mechanical
March 2007

Engineering attended the International Conference on Emerging Mechanical Technology Macro to Nano (EMTM2N-2007) at BITS Pilani, during February 16-18, 2007 where he presented a paper entitled “Travel Range Extension of an Electrostatic Microactuator: Nonlinear Parallel Plate Models” authored by himself and Prof. D.N. Pawaskar.

Uday A. Dahade, QIP Research Scholar, Department of Mechanical Engineering presented a paper “Some Aspects of Improving Integrity of Machined Surfaces on Al/SiCp Composites”, coauthored by Prof. Suhas S. Joshi (IIT Bombay) and VV. Bhanuprasad (DMH, Hyderabad), in the Second International Conference on Recent Advances in Composite Materials, ICRCAM 2007, Organised by Institute of Technology, Banaras Hindu University, Varanasi, during 20-23rd February 2007 at India Habitat Centre, New Delhi.

**Seminars**

**Department of Aerospace Engineering**

Prof. Ramakrishna Yedavalli, Department of Aerospace Engineering, Ohio State University, delivered two talks on “Robust Stability Analysis of Uncertain Dynamic Systems with Applications” and “Research on Aerospace Controls at The Ohio State University” on February 9, 2007.

Mr. Baba Peter, Founder Director, Aerobiz, Retired Director Engineering Indian Airlines and AirIndia gave a talk on “Evolution of Aircraft Maintenance” on February 12, 2007.


Department of Chemical Engineering

Prof. Vijin Kumar, Department of Mechanical Engineering, University of Washington spoke on “Enhancing Innovation by Applying the Axiomatic Design Principles” on 18th January, 2007.

Prof. Dr. Ing. Kai Sundmacher, Max-Planck Institute, Germany spoke on “Electrochemical energy conversion using fuel cells” on January 18, 2007.

Dr. Ramani Aiyer, Senior Vice President, Strategic Planning, R&D at Nicholas Piramal India Limited delivered a talk on “Opportunities in New Drug Discovery & Development: My Nicholas Piramal Experience” on 18th January 2007.

Dr. K. S.V. Santhanam, Center For Materials Science and Engineering and Department of Chemistry, Rochester Institute of Technology, Rochester, NY 14623 spoke on “Nanotubes: Applications to Catalysis, Fuel Cells, Sensors and Thermal Stabilization” on Friday, 23rd February, 2007.

**Department of Civil Engineering**

Prof. P. D. Spanos, Ryon Chair Professor, Department of Civil Engineering, Rice University, USA spoke on “Joint Time - Frequency Analysis in Structural Dynamics” on 19th January, 2007.


Department of Computer Science & Engineering

Prof. Ken Perlin, Professor, Department of Computer Science, New York University gave a talk on “Animation/Graphics (Should be accessible to all)” on February 5, 2007.

Department of Electrical Engineering


Dr. Tanul Bose, Director - Center for High-speed Information Processing Utah State University, delivered a seminar on “The Euclidean Direction Search (EDS) Adaptive Filtering Algorithm: Theory and Applications” on February 13, 2007.

Dr. Roberto Saracco, CTO, Telecom Italia And Member Strategic Board of IEEE gave a talk on “Is there a future for telecommunications? Looking into today’s situation and challenges lying ahead” on February 26, 2007.

Department of Humanities and Social Sciences


March 2007

Prof. N. Jayaram, Director, Institute for Social & Economic Change, Bangalore spoke on "Deviant Case Analysis" on 8th February 2007.

Prof. Rajendra Prasad, former Head, H&SS, IIT Kanpur conducted a periodical lecture series titled "Yashodhara’s Moral Anguish, Gautama’s Spiritual Enlightenment and some Theoretical Problems They Throw Up" on February 20, 2007.

Industrial Design Centre

Sushil Patwardhan, one of India’s major artists gave a talk in the Contemporary Arts Course on February 27, 2007. His work has been shown in important exhibitions of Indian contemporary art in UK, Europe, America and Japan.

Department of Mathematics

Prof. T. N. Venkataramana (TIFR, Mumbai) gave a colloquium talk on "Jordan decomposition in lattices and quasi-unipotence of monodromy" on January 24, 2007.

Prof. Chandrashekhar Khare, University of Utah, USA delivered a colloquium talk on "Galois Representation" on January 15, 2007.

Dr. Susana Gomez, Applied Mathematics Institute, National University of Mexico presented her research work on development of algorithms for global optimization at the Aerospace Engineering Department on 22nd February & also delivered a seminar on "Designing an Evolutionary Optimization Algorithm to Characterize naturally fractured oil Reservoirs fitting well test data" on 23rd February 2007.

Department of Mechanical Engineering

Dr. Brant A. Peppley, Director of the Queen’s - RMC Fuel Cell Research Centre (FCRC) gave a talk on "Fuel Processing for Fuel Cells" on February 19, 2007.

Arunava Majumdar, University of California, Berkeley delivered a seminar on "Nanomaterials for Energy Conversion and Storage" on February 22, 2007.

Department of Metallurgical Engineering and Materials Science

Prof. Sushil K. Misra, Concordia Univ. Canada delivered a seminar on "High frequency, high field EPR: Virtues of multi-frequency EPR" on December 29, 2006.


Dr. R. W. Revie, CANMET Materials Technology Laboratory. Natural Resources Canada, spoke on "R & D to Enhance Pipeline Reliability" on January 23, 2007.

Santosh Y. Limaye, Vesta Ceramics, LLC, San Diego, California gave a talk on "Journey from engineering education to entrepreneurship" on February 14, 2007.


Department of Physics


Prof. Praveen Chaddah, UGC-DAE Consortium for Scientific Research, University Campus, Indore, delivered a seminar on "Disorder-influenced 1st Order magnetic transitions - results in half-doped manganites" on January 17, 2007.

Prof. Bhavesh Bansal, Catholic University, Leuven, Belgium delivered a seminar on "Excitons in type-II quantum dots" on January 17, 2007.

Prof. S.D. Mahanti, Dept. of Physics, Michigan State University spoke on "Magnetic excitations in Double Exchange Ferromagnets - CMR Manganites" on January 24, 2007.

Dr. S. Shankaranarayanan, Albert Einstein Institute, Germany delivered a seminar on "Inflation as a probe of Planck Scale Physics" on January 24, 2007.

Prof. Satya N. Majumdar delivered a seminar on "Large Deviations of Extreme Eigenvalues of Random Matrices" on January 25, 2007.

Dr. Ramesh Chandra Nath, MPI CPPS, Dresden, Germany spoke on "Experimental Study of some frustrated 2D and 3D = 1/2 Heisenberg systems in complex Vanadim oxides" on February 14, 2007.

Industrial Engineering and Operations Research

Dr. Kavita Ramanan from the Department of Mathematical Sciences at Carnegie Mellon University gave a seminar talk on "Optimization and Analysis of Stochastic Networks" on January 23, 2007.

Dr. Rahul Marathe, Iowa State University spoke on "Capacity expansion for uncertain demand" on February 12, 2007.
Prof. K. P. K. Nair, Professor and Dean Emeritus, Faculty of Business Administration, University of New Brunswick, Canada delivered a seminar on “Optimal Transmitted-Receiver System in a Network” on February 23, 2007.

Centre for Research in Nanotechnology

Prof. Arup Bhattacharya, Department of Metallurgical Engineering and Materials Science, IIT Bombay gave a Colloquium under the Nanotechnology colloquium series on “Control of multivall carbon nanotubes dispersion in polymer matrix” on January 22, 2007.

Pawan Dhar, Biken Japan delivered a colloquium talk on “Synthetic Biology—engineering perspective of an emerging discipline” on February 19, 2007.

Energy Systems Engineering Seminar

Dr. Sagar Mitra, Principal Electrochemist, Replisaurus Technologies AB, Stockholm, Sweden delivered a seminar talk on “Nanotechnology for Next Generation Energy Storage” on February 28th, 2007.

Kanwal Rekhi School of Information Technology

Pallika Kanani, Graduate student of Dept. of Computer Science, University of Massachusetts at Amherst gave a talk on “Improving Author Co-reference by Resource-bounded Information Gathering from the Web” on 16th January 2007.

Prof. Shashi K. Gadia, Department of CS, Iowa State University delivered a seminar on “Abstractions and their realization in the parametric approach to spatial, temporal and belief data” on February 13, 2007.

SJM School of Management


Dr. Shailesh J. Mehta, President, Granite Hill Capital Ventures and Chairman, Peach Direct, USA and a Distinguished Alumni of IIT Bombay gave a talk on “Leadership” on 29th January 2007.

Central Library

The Central Library, IIT Bombay in collaboration with Max Muller Bhavan, Mumbai was organized a half day’s program on “Innovative Services of a Special Library”. Dr. R. Ball, Head of the Central Library of Research Centre Julich, Germany was the main speaker. It also included a presentation on the recently launched Institutional Repository of IIT Bombay and demos of E-Books on February 27, 2007.

Publications


Swimming Club News

The 22rd Annual Swimming Gala 2007 with the reputation of having ace swimmers as participants like Lekha Kamath and Veer Dhaval Khade (who represented India in Asia Pacific) was organized by IIT Bombay during 24-25th February, 2007 at its swimming pool. It had a wonderful response of 350 participants all over the state representing 56 of the best swimming clubs all over the city. There were even participants from Kolhapur, Nashik, Ichalkaranji, Pune, New Mumbai, besides Thane and Mumbai. There were 80 events covering different age groups like under 7, 9, 11 and 15 years for both boys and girls besides events for college boys, girls, men and women. 6 records were broken again this year. The star swimmers of the meet Miss Surabhi Tiptre of NMSA three meet records in women category. Miss Rujuta Bhatt of Khur Gym three meet records in girls under 11 years.

The following swimmers of IIT swimming club brought laurels to IIT are Mr Sarwesh Paradkar, Viverdan Kanoria, Jibin George, Siddarth Rao Deb, Shruti Reddy, Pankaja Date, Surya Prasad Sharma, Rahul Koppikar, Jaiid Naik & Madhu Prasad Sharma. Overall the event provided good competition to budding star swimmers and was expertly managed and organized by Dr. P. M. Reddy (Swimming Coach at IIT Bombay and Head of Swimming Gala 2007) and Apurva Godbole (Swim Secretary IIT Bombay).

Staff News

The following news item published in February issue had given wrong information. The corrected one is: Shri Jaiprakash M. Yadav, Watchman, Security Section participated in the Master Athletic Meet of Maharashtra, held on 3rd & 4th February, 2007 at Bhandara. He received awards in all events in the 40+ age group i.e. II place in 1500 meters and II place in 800, 5000 and 10000 meters. He also selected for National Master Athletic Meet 2007.
## Appointments

Prof. Kartic C. Khilar, Deptt. of Chemical Engineering has been appointed as a Head of the Centre for Research in Nanotechnology and Science (CRNTS) from 5th February, 2007.

## Retirements

(As on 31.3.2007)

1. Prof. Rehana Ghadially
2. Prof. D. M. Dewaikar
   Civil Engg. Deptt.
3. Shri. P. G. Bakhre
   Cash Section
4. Shri. M. S. G. Kutry
   CAD Centre
5. Ms. Rosy D'Silva
   Campus School
6. Shri. M. P. Gamarre
7. Shri. T. D. Laharie
   Estate Office
8. Shri. B. G. Pakhare
9. Shri. B. T. Patil
   Estate Office

## Events

<table>
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<tr>
<th>Date</th>
<th>48th Foundation Day Celebrations</th>
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<tr>
<td>March 13, 2007</td>
<td>Venue: P.C. Saxena Auditorium</td>
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### Courses for March 2007

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<tr>
<th>No.</th>
<th>Course Title</th>
<th>Department</th>
<th>Date</th>
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<tr>
<td>2.</td>
<td>Submarine Pipelines, Pile Driveability Analysis and Large Strain Finite Element Analysis (for ONGC, Panvel)</td>
<td>Prof. D.M. Dewaikar, Civil Engg.</td>
<td>March 12-17</td>
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<td>3.</td>
<td>Building Effective Business Organisations in Indian Apparel Industry</td>
<td>Prof. A. Ghosh, SJMSOM</td>
<td>12-14</td>
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<td>4.</td>
<td>Aayaam-07: CEPWorkshop on Service Oriented Architecture (SOA) and Semantic Web</td>
<td>Prof. Varsha Apte, Prof. S. Sudarshan, Computer Sc. &amp; Engg.</td>
<td>March 16-18</td>
</tr>
<tr>
<td>7.</td>
<td>Embedded System Software</td>
<td>Prof. K. Arya, KReSIT</td>
<td>March 24-25</td>
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