

45th Convocation (2007)



The Institute's 45th Convocation was held on Friday August 10, 2007, at 4.00 p.m. at the IIT Convocation Hall. Mr. Lakshmi N. Mittal, Chairman & CEO, Arcelor Mittal, was the Chief Guest.

Addressing the graduates Mr. Lakshmi Mittal said, "IIT graduates should think of building careers in their own country. India needs talented people for its economic prosperity. IIT graduates need to understand that India is attracting investment from an immense number of foreign countries." The students were enthused to hear him say, "It is said that to be accepted in an Ivy League institution is easier than getting into an IIT." Calling IITs as the foundation to build a challenging career, Mr. Mittal said, "Its graduates are synonymous with success. I have 70 IIT graduates at my own company who have helped to grow the business to the

size and scale that it is today." "IITs are one of India's biggest success stories today and the influence is greatest in the Silicon Valley," he added.

Dr. Anil Kakodkar, Chairman, Board of Governors, IIT Bombay, said, "Although IIT has played a major role in nation-building in the era of its Golden Jubilee celebrations, there is a need to develop clarity in the context of the perceived scenario of our country and the role of IIT in it." Introducing the Chief Guest, he said, "Mr. Lakshmi Mittal leads India's global impact and presence. He is a living manifestation of the shape of things to come in future in respect of India's rise to global leadership." Addressing the students, Dr. Kakodkar said, "I would like to say that the presence of Mr. Mittal and Prof. Menon symbolises two great peaks, one in industry and the other in research, the two domains that are intertwined and that contribute to a holistic environment for our students to learn and perform both while here at IIT and later."

The Degree of Doctor of Science (*Honoris Causa*) was conferred on Prof. M.G. K. Menon. In his address, Prof. Menon implored the students to undertake research for the challenges it offered. He said research was like looking out of a new window. Prof. Menon, recalling his long association



with IIT Bombay, said, "I had witnessed the laying of the foundation stone of IIT Bombay and have had a long connection with it and other IITs."

In his report, Prof. Ashok Misra, Director, IIT Bombay, said, "IIT Bombay has completed 49 years of its successful existence and will be celebrating its Golden Jubilee from September this year. We are proud of the achievements we have made in the area of education and research over this period and have attained recognition in the world community as a leading institution of technology and science." Prof. Misra said the institute awarded the highest number of Ph.D.s this year. Of the 152 Ph.D. degrees awarded, 97 were in engineering. As the IIT Bombay celebrates its Golden Jubilee this year, the institute has received Rs.11 crore from corporate houses and over Rs.27 crore from the alumni. A sum of Rs.166.87 lakh also came in through the IIT Bombay Heritage Fund in America and Rs.562.7 lakh from corporate bodies, alumni and individuals within India for academic activities.

Degrees and Medals

At this convocation, a total of 1483 degrees were awarded. Of these, 152 are Ph.D., 462 M.Tech., 58 M.Mgt., 28 M.Des., 15 M.Phil., 132 M.Sc., and 472 B.Tech.

The President of India Medal was awarded to Yashoddhan Kanoria, Electrical Engineering, and the Institute Gold Medal (B.Tech. Dual Degree) 2005-2006 to Chhatre Shreerang Sharad, Metallurgical Process Engineering.

Awards & Distinctions

Professor U. K. Anandavardhanan, Department of Mathematics, has been selected as an "Associate of the Indian Academy of Sciences".

Professor M. S. Balakrishna, Dept. of Chemistry, has been awarded the CRSI Bronze Medal for the year 2008.

Professor V. G. Ukadgaonker, Dept of Mechanical Engineering, has been nominated as an International Educator of the Year for 2007.

Seminars

Department of Chemical Engineering

Philip K. Hopke, The Bayard D. Clarkson Distinguished Professor, Department of Chemical and Biomolecular Engineering, and Director, Center for Air Resources Engineering and Science, Clarkson University, USA, delivered a seminar on "Utilizing Meteorological and Temporal Independent Variables in Multilinear Receptor Modeling Studies" on August 20, 2007.

Department of Chemistry

Dr. Nandita Madhavan, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA delivered a seminar on "Synthetically Engineered Materials for Catalysis and

Nano-scale Device Applications" on August 16, 2007.

Dr. V. Ramakrishna, delivered a seminar on "NMR Analysis of Partially Folded States and Persistent Structure in a 29kDa TIM Barrel protein: Back to BASiCs" on August 20, 2007.

Dr. S. P. Chavan, National Chemical Laboratory, Pune, delivered a seminar on "A quest for a practical synthesis of commercially important molecules" on August 22, 2007.

Dr. Malati Raghunath, University of California, Santa Barbara, delivered a seminar on "Transition Metal Catalyzed Organic Transformations & Atropo-selective Biaryl Coupling" on September 3, 2007.

Prof. Fritz Kuehn, Technical University of Munich, delivered a seminar on "Organometallic Compounds for Catalysis" on September 10, 2007.

Department of Computer Science and Engg.

Prof. Sunita Sarawagi, Computer Science and Engineering, delivered a seminar on "Efficient Inference Algorithms for Information Extraction using Graphical Models" on August 22, 2007.

Prof. Supratik Chakraborty, "Reachability Expressions: Meta-programs for Guiding Symbolic Reachability" on September 5, 2007.

Department of Electrical Engineering

Dr. Poorvi Vora, Department of Computer Science, George Washington University, delivered a seminar on "Related-Key Statistical Cryptanalysis" on August 8, 2007.

Prof. Peri Bhaskararao, Tokai University of Foreign Studies, delivered a seminar on "Sounds of Indian Languages - Implications for Computational Speech" on August 31, 2007.

Department of Humanities & Social Scs.

Prof. K. Ramasubramanian of the department delivered a seminar on "Observation & Interpretations: Indian Astronomy" on August 1, 2007.

Julian Crandall Hollick, Co-founder of Independent Broadcasting Association Inc., Massachusetts, delivered a seminar on "WILL GANGA DIE?" on August 1, 2007.

Prof. Stanley Nollen, McDonough School of Business, Georgetown University, delivered a seminar on "Puzzles: Labor Productivity and Entrepreneurship in Indian and Chinese Software Firms" on August 22, 2007.

Prof. Amitrajeet A. Batabyal, Rochester Institute of Technology, delivered a seminar on "Trade, the Damage from Alien Species, and the Effects of Protectionism under Alternate Market Structures" on August 23, 2007.

Department of Mathematics

Prof. Sagun Chanillo, Rutgers University, delivered a Colloquium talk on "The Composite Membrane Problem and Eigenvalue Optimization" on August 2, 2007.

Topology Lecture series

Prof. Preeti Raman of the department delivered a lecture on "Whitehead Torsion" on August 8, 2007.

Prof. A. R. Shastri and Mr. Subhash of the department delivered a lecture on "NILPOTENT SPACES" on

"Poincare Duality" respectively, on August 11, 2007.

Alok Dabade, Dept of Statistics, Mithibai College, delivered a talk on "Small Sample Interval Estimation of Bernoulli and Poisson Parameters" on August 25, 2007.

Sanjeev Sabnis of the department delivered a talk on "A Delta Method for obtaining Asymptotic Distribution- Part II" on August 25, 2007.

Meena Kumari, Scientist "G", DRDO, delivered a seminar on "Mathematics in Cryptology: Design and Analysis of Cryptosystems" on August 30, 2007.

Department of Mechanical Engineering

Prof. Shashikanth Suryanarayanan of the department delivered a seminar on "Realization of a Low-Cost Engine Management System for Petrol-Powered Small Vehicles (2/3 wheelers)" on August 1, 2007.

Professor Darius P.K. Singh, Director, CAMTEC Centre for Advanced Manufacturing Technology School of Engineering, Faculty of Design and Creative Technologies, AUT University, New Zealand, delivered a seminar on "A new paradigm for Technology Management: Research, Development and Deployment (RD&DTM)-The COMPLETE R&D STORY" on August 28, 2007.

Dr. Shailendra P. Joshi, Post Doctoral Fellow, Department of Mechanical Engineering, The Johns Hopkins University, delivered a seminar on "An Enriched Continuum Model for Grain Size Dependent Shear Instability in Nanostructured Materials" on August 29, 2007.

Prof. V. Ramamurti, Retired Professor, IITM Fellow of INSA, delivered the Biren Roy memorial lecture on "Vibration Problems in Industry - Indian Scenario" on August 29, 2007.

Prof. Hans Quack, Professor for Refrigeration, Compressor and Cryogenics, Technical University of Dresden, Germany, delivered a seminar on "Liquid hydrogen research in support of the car industry" on August 30, 2007.

Dr. rer. nat, Dipl.-Ing. Andreas Hornung, Scientist, Forschungszentrum, Karlsruhe GmbH, delivered a seminar on 'Pyrolysis of Biomass for Synthetic Fuels' on September 4, 2007.

Prof R.K. Manchanda, Department of Astronomy and Astrophysics, TIFR, delivered a seminar on "Gamma Ray Bursts" on August 30, 2007.

Department of Metallurgical Engg. & Materials Science

Dr. Santosh S. Hosmani, Max-Planck-Institute for Metals Research, Stuttgart, Germany, delivered a seminar on "The Nitriding of Iron-based Alloys: Microstructure and Kinetics" on August 13, 2007.

Dr. Young Jin Kim, Tokusen, U.S.A., delivered a seminar on "Applications of Nanosilver Flakes in Electronics" on August 8, 2007.

Industrial Design Centre

Dr. Amit Ray, IIT Kanpur, delivered a talk on "Art and Aesthetics" on August 22, 2007.

School of Biosciences and Bioengineering

Dr. Pankaj Chaturvedi, Head and Neck Surgeon, Tata Memorial Hospital, Mumbai, delivered a seminar on "The challenges faced by surgeons and where technologists like us can contribute" and "What a clinician expects from technology giants?" on September 6, 2007.

Shailesh J. Mehta School of Management

Shailesh J Mehta School of Management (SJMOM) organized FINANCE CONTINUUM 2007 on 11th August 2007 as a part of Rolling Seminar Series. Amongst the panelists were SJMOM Ph.D student Mr. Abhijit Phadnis (he has held positions like CEO of UBS Securities and senior management team Credit Suisse) Mr. Vikas Goel, Executive Director, Head of Treasury & Money Markets, Calyon Bank; Mr. Jayanta Dasgupta, Associate Director, Institutional Sales, HSBC; Mr. Sughosh Mohariker, Executive Director and Head of M&A, Kotak Investment Banking; and Mr. Saurabh Singhal, Director, Global Markets Deutsche Bank. The discussion was followed by a speech by Mr. Anup Kapadia and by N M Tothschild and a talk by Mr. Rakesh Jhunjhunwala, the Ace Investor, on his investment methods and philosophy.

Dr. Shailesh J Mehta, President, Granite Hill Capital Ventures, LLC, gave the keynote address

Department of Physics

Dr. D. T. Adroja, Rutherford Appleton Laboratory, U.K, delivered a lecture on "Study of Non-Fermi-Liquid behaviour near the Ferromagnetic quantum critical point in CePd (0.15) Rh (0.85)" on August 3, 2007.

Dr. Sumedha, ISI Foundation, Torino, Italy, delivered a seminar on "Evolution of population on neutral networks" on August 8, 2007.

Dr. Colin Benjamin, Centre de Physique Thrique, CRNS, France, delivered a talk on "Positive noise cross-correlations in superconducting hybrids: Role of interfaces and interactions" on August 27, 2007.

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Dr. Manoj Gopalakrishnan, HRI, Allahabad, delivered a seminar on "Noise in chemotaxis" on September 4, 2007.

Dr. Umesh R. Kadhane, University of Aarhus, Denmark, delivered a seminar on "Study of dianions with all electrostatic ion storages ring ELISA" on September 3, 2007.

Energy Systems Engineering

Prof. S. Neogi, School of Energy Studies, Jadavpur University, delivered a seminar on "Intelligent Buildings & Approach for Energy Efficiency" on August 27, 2007.

Libby Wayman, Solar Turbine Group, delivered a seminar on "Solar Micro- Generator" on August 8, 2007.

Workshop

Department of Humanities and Social Sciences and Student Gymkhana jointly organized a talk and playwriting workshop by Prof. Alan Brody, Professor of Theater Arts, M.I.T., and a former Associate Provost for the Arts at M.I.T.

The talk "Science and Theatre", given on July 27 was widely attended. On behalf of the Institute, Prof. J. M. Vasi, the Acting Director, welcomed Prof. Brody and shared a brief history of theatre related activities that have been undertaken in IIT Bombay in the last 49 years. He also pointed out that the Humanities and Social Sciences curriculum was influenced by the MIT model.

In his talk "Science and Theatre", Prof. Brody highlighted the significance of "Science in Theater" and "Theater in Science". To illustrate this interface, he referred to a number of notable artistic experiments undertaken by theatre practitioners in the West and also at MIT. Prof. Brody underlined the need to integrate liberal arts education in the

growth of scientists and technologists so as to enrich their imagination. He offered detailed explanation about how MIT went about emphasizing this approach.

Prof. Brody explained the dominant features of drama/theatre. A large number of participants sought his response to their works-in-progress. He visited India under the auspices of MIT- Prithvi Partnership supported by MIT-India Programme and ICICI Bank. Ms. Sanjana Kapoor and Ms. Sameera P lyengar of Prithvi Theatres attended the two sessions.

Faculty News

Prof. Atanu Ghosh, SJMSOM, delivered talks on "The innovative way of learning on leadership: an experiment at the School of Management, IIT Bombay", at St. Joseph College of Business Administration, Bangalore and at NIPM, Karnataka Chapter, Bangalore, on 4th August 2007.

Prof. K. Ramasubramanian of the department of HSS was invited to participate in a Symposium on "Autonomous and Intelligent Systems" organized by Center for Intelligent Systems, PES School of Engineering, Bangalore, held during August 26-27, 2007, and chair the Open House Session. He also gave a talk on "Observation and Interpretations : Indian Astronomy" at the Bio-School, IIT Bombay, on September 1, 2007.

Prof. C. Amarnath, Professor In-charge, SINE, IIT Bombay, delivered a talk on "Entrepreneurship and SINE" on 3rd August 2007.

Staff News

Ms. Shobha Kulkarni, Asstt Librarian, Central Library, IITB, participated and presented a paper on "Knowledge Management : a Backbone for Libraries in Rural Development Program"

at the National Workshop on Knowledge Management in Rural Development Spectrum during 20-22 August 2007 at National Institute of Rural Development, Hyderabad.

Mr. Mahendra N. Jadhav, Assistant Librarian, Central Library, presented a paper entitled "An Implementation of DSpace at IIT Bombay" at the "Symposium on Experience with DSpace for Institutional and Organizational Repositories" at Hewlett Packard University Relation India at Gurgaon, 21st August 2007.

Mr. Jadhav also participated as a resource person in a two-day workshop on "Creating Digital Libraries using DSpace" 11-12th August 2007 at Tata Institute of Social Sciences, Mumbai. The workshop was organized by TISS and Bombay Science Librarians Association (BOSLA).

Publications

Prof. Kannan M. Moudgalya, Head C-DEEP, wrote a textbook on "Digital Control", published by John Wiley & Sons, Chichester. Pages: 568, ISBN: 978-0-470-03143-8.

5 yr. Int. M.Sc.

1.	Ved Prakash Singh	I	Rs.500/-	Chemistry
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IV year B.Tech./Dual Degree/M.Sc.(Integrated) Barnchwise

B.Tech.

1.	Rahul Goel	I	Rs.500/-	Aerospace Engg.
2.	Prabhu Arun Laxman	I	Rs.500/-	Chemical Engg.
3.	Sudipto Guha	II	Rs.350/-	-do-
4.	Rao Anirudha Sudarshan	I	Rs.500/-	Civil Engg.
5.	Gagan Gupta	I	Rs.350/-	-do-
6.	Sushant Sachdeva	I	Rs.500/-	Comp.Sc. & Engg.
7.	Avin Mittal	II	Rs.350/-	-do-
8.	Kamath Sudeep Uday	I	Rs.500/-	Electrical Engg.
9.	Tallur Siddharth Gurunath	II	Rs.350/-	-do-
10.	Vamsi Pritam Pingali	I	Rs.500/-	Engg. Physics
11.	Deep Gupta	I	Rs.500/-	Mechanical Engg.
12.	Sanghvi Pravesh	II	Rs.350/-	-do-
13.	Roopali Kukreja	I	Rs.500/-	Met.Engg & Mat.Sc.
14.	Badwe Nilesh Umesh	II	Rs.350/-	-do-

Dual Degree

1.	Kulkarni Mandar D.	I	Rs.500/-	Aerospace Engg.
2.	Preshit Dandekar	I	Rs.500/-	Chemical Engg.
3.	Amit Singhal	I	Rs.500/-	Civil Engg.
4.	Amit Arora	I	Rs.500/-	Comp. Sc. & Engg
5.	ST Aditya	I	Rs.500/-	Electrical Engg.
6.	Suyog Gupta	II	Rs.350/-	-do-
7.	Siddharth Chadda	I	Rs.500/-	Mechanical Engg.
8.	Paradkar Sarwesh G	II	Rs.350/-	-do-
9.	Mudrika Khandelwal	I	Rs.500/-	Met.Engg.& Mat Sc.
10.	Ankit Gupta	II	Rs.350/-	-do-

5 yr. Int. M.Sc.

1.	Shiksha Mantri	I	Rs.500/-	Chemistry
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V year Dual Degree/M.Sc.(Integrated) Barnchwise

1.	Harshad D Ranadive	I	Rs.500/-	Aerospace Engg.
2.	Kartik Shekhar	I	Rs.500/-	Chemical Engg.
3.	Ashma Chopra	I	Rs.500/-	Civil Engg.
4.	Neha Singh	I	Rs.500/-	Comp. Sc. & Engg
5.	Chaudhari Ameya	I	Rs.500/-	Electrical Engg.
6.	Kartik G	II	Rs.350/-	-do-
7.	Shah Himani Amitbhai	I	Rs.500/-	Mechanical Engg.
8.	Kapil Shashi Choudhary	II	Rs.350/-	-do-
9.	Naresh Sharma	I	Rs.500/-	Met.Engg.& Mat Sc.
10.	Rahul Tapariya	II	Rs.350/-	-do-

5 yr. Int. M.Sc.

1. Krishna Ramkumar I Rs.500/- Chemistry

II Year M.Sc.(2 year)

1. Aniruddha Sasmal I Rs.500/- Chemistry
 2. Subhendu Sarkar I Rs.500/- Earth Sciences
 3. Alladi Sriram I Rs.500/- Mathematics
 4. Saurabh Sharma I Rs.500/- Physics
 5. Morey Czuee I Rs.500/- School of Bioscie & Bioengineering
 6. Awasare Sanjeev I Rs.500/- Applied Statistics and Informatics
 7. Rajiv Kumar I Rs.500/- Applied Geophysics

Other Prizes

Shri Rakesh Mathur Excellence Award

1. Sushant Sachdeva Rs.1,00,000/- III yr. UG student.

Shri T.K. Subramanian Prize For Academic Excellence

1. Deep Gupta Rs.1000/- Mech.Engg.

Jaya Seetha Ranjani Harihar Subramani Prize (For Civil Engg.)

1. Ritesh Agarwal Rs.500/- I yr. B.Tech.
 2. Himanshu Jain Rs.500/- II Yr. B.Tech.
 3. Rao Anirudha Sudarshan Rs.500/- III Yr. B.Tech.

Urvish Medh Memorial Prize (For Electrical Engg.)

1. Subhasis Das Rs.2500/- I Yr. B.Tech.
 2. Tikekar Mehul Deepak Rs.2500/- II Yr. B.Tech.
 3. Paidimarri Arun Rs.2500/- III Yr. B.Tech.
 4. Kamath Sudeep Uday Rs.2500/- IV Yr. B.Tech.

Prof. M.N. Vartak Memorial Prize

1. Awasare Sanjeev Rs.6000/- II yr. M.Sc.
 Applied Statistics & Informatics

Mrs. Rama Mathur Memorial Prize

1. Aladi Sriram Rs.2000/- II yr. M.Sc.
 Mathematics

Raghavendra Jambagi Memorial Award

1. S T Aditya Rs.5000/- III yr. Electrical Engg.
 (Communication & Signal Processing)

Aditya Choubey Memorial Prizes

1. Hiremani Tejas Vilas Rs.5000/- II yr. B.Tech. Electrical Engg

Bhavesh Gandhi Memorial Prize

1. Abhijit Gupta Rs.1250/- III yr. B.Tech. Elect. Engg.
 2. Sudeep Kamath Rs.1250/- III yr. B.Tech. Elect. Engg.

Gymkhana News

Mr Sarwesh Paradkar, fourth year dual degree from mechanical Eng. dept., won two gold medals in 50m butterfly & 50m back stroke and silver in 100m back & bronze in 200m back in the Mumbai District Open Aquatics Meet held at Mulund swimming pool on 11th-12th August 2007. This has happened after a gap of nine years (after Kopikar brothers passed out from IIT in 1998).

Sarwesh has been selected to represent Mumbai district at the Senior State Aquatics Meet to be held at Parbani at the end of this month. Sarwesh is preparing very hard to break short course records at the forthcoming Inter IIT Aquatics Meet to be held at IIT Bombay from 2nd to 5th October 2007.

Appointments

Dr. Rodney A. Fernandes has been appointed as an Assistant Professor in the Department of Chemistry from August 6, 2007.

Dr. Ganesh Ramakrishnan has been appointed as a Honorary Adjunct Professor in the Department of Computer Science & Engineering from July 2, 2007.

Events

CEP Course

Prof. K Ramasubramanian, IIT Bombay, delivered a lecture in the continuing CEP lecture Series, on "Evolution of Planetary Models: Aristotle to Copernicus" on August 24, 2007.

Dr. A D Karve, President, Appropriate Rural Technology Institute, Pune, delivered a lecture in the continuing CEP lecture Series, on "Biogas Generation from Kitchen Waste" on August 31, 2007.

Prof. Peter Ngai-Sing Wong has been appointed as a Visiting Professor in the Department of Mathematics from August 14, 2007.

Dr. Visish Kumar Kathuria has been appointed as an Associate Professor in the Shailesh J. Mehta School of Management from August 27, 2007.

Retirements

as on September 30, 2007.

Shri R. G. Khuperkar, Department of Electrical Engineering,

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