

TIME 2007 (Technology and Innovation in Mathematics Education)

The second national conference TIME 2007 is being organised at the Department of Mathematics during 1st - 4th December 2007. Prof. S. G. Dani, Chairman, National Board for Higher Mathematics, will inaugurate the conference on December 1, 2007.

The aim of TIME 2007 is to give an opportunity to maths teachers (from schools/colleges) and maths educators to share their teaching ideas and classroom experiences in teaching mathematics and conducting maths labs, aided by technology in any forms such as power point presentations, use of a software, use of Internet, models, and so on. TIME 2007 also provides an opportunity to teachers to see how technology in various ways can help to enhance the process of teaching mathematics.

The event will host a number of activities such as eight invited lectures by specialists, 25 presentations by teachers, four hands-on workshops on the use of technology, use of professional softwares useful in teaching mathematics and conducting Maths labs, and two panel discussions, one on "Vedic Mathematics" and the other on "Role of Technology in Math Teaching".

Poster sessions and exhibitions of books and other material on teaching and learning of Mathematics are also planned during TIME 2007.

Alumni Reunion

Alumni Day 2007, scheduled on December 30, 2007, will draw, as usual, a large number of alumni to the campus. It is a Special Day and an occasion for catching up with old cronies and reliving of old memories. It is also an occasion for the Class of '82 to celebrate their Silver Jubilee Reunion. This is the day again all alumni eagerly look forward to their homecoming. There are a whole range of interesting activities lined up for alumni for that day. For those who celebrate their Silver Jubilee year it is a double bonus in the form of celebrations on 29th December and on the Alumni Day.

The main events on the Alumni Day will be :

- Address by Director
- Presentation of **Distinguished Service** awards
- Presentation of IIT Bombay Golden Jubilee Projects
- Presentation of the Legacy Project by Class of 1982

There will also be other interesting events. To name a few:

- Boat rides in the Powai lake
- Guided campus tours with complete narration about newly added departments and buildings
- Individual and group photo sessions, with family members and buddies
- Fun activities for children – Live demonstrations on paintings, making greeting cards & art decoration, etc., with hands-on trial.
- Pagal gymkhana – a series of fun and frolic matches aimed at bringing out the child in each participant
- Magic shows, mimicry, party games, and much more fun for the entire family

Awards & Distinctions

Prof. S.P. Mahulikar, Department of Aerospace Engineering, received the Outstanding Reviewer Award for the ASME Journal of Heat Transfer, at the International Mechanical Engineering Congress & Exposition, held at Seattle on November 13, 2007.

"Distillery Wastewater Management: Achieving the Goal of Zero Discharge"

QIP-cum-CEP short term course on "Distillery Wastewater Management: Achieving the Goal of Zero Discharge", organised by CESE, was inaugurated by Deputy Director Prof. J.M. Vasi on October 29, 2007.

Prof. Vasi, Chief Guest, welcomed the participants and presented an account of Golden Jubilee celebrations at IIT Bombay. Prof.R.S. Patil, Head, CESE, spoke about the centre; Prof. A.S. Moharir, Professor In-charge, QIP-CEP, introduced the participants to the continuing education activities of the institute; and Prof. A.K. Dikshit, Course Coordinator, talked about the objectives and scope of the course. The course continued until November 2, 2007, and the talks delivered during the course were:

Trends in distillery industries in India: past and future (Prof. A.K. Dikshit); Managing distillery waste to achieve zero discharge (Prof. A.K. Dikshit); Aerobic treatment options (Prof. S. Suresh); Anaerobic treatment options (Prof. S.K. Gupta); Integrated treatment options for distillery wastewater treatment (Prof. M. Balakrishnan, TERI New Delhi); Membrane processes (Dr. Ulhas Kharul, NCL Pune); Membrane bioreactor processes (Mr. Sanjay Nene, NCL Pune); Thermal incineration and conversion options (Prof. B.J. Alappat, IIT Delhi); Recovery of energy (Prof. B.J. Alappat, IIT Delhi); Indian environmental laws and policy (Prof. S.R. Asolekar); Physico-chemical methods for decolourisation (Prof. A.K. Dikshit & M.S. Chauhan); Biological methods for decolourisation (M.S. Chauhan & S.S. Singh); Cleaner production in distilleries to achieve zero discharge & performance evaluation of a distillery (Prof. A. Singh, NITIE, Mumbai); Implementation of CREP norms and the current status in Maharashtra (Ms. D. Nimbalkar, Vasantdada Sugar Institute, Pune); Clean development mechanism and carbon credits with reference to distillery industry (Prof. R.K. Trivedi, ACI Mumbai). The course had 30 QIP participants and seven CEP participants.

Publications

Prof. S.P. Mahulikar, Department of Aerospace Engineering, has published a paper co-authored by his PhD students, Mr. H.R. Sonawane & Dr. G.A. Rao, entitled "Infrared signature studies of aerospace vehicles" in an international journal – *Progress in Aerospace Science*, Vol. 43, Oct-Nov'07 Issue nos. 7-8, pp. 218-245.

Prof. A.K. Rastogi, Department of Civil Engineering, has published a textbook entitled "Numerical Groundwater Hydrology" in *Penram International Publication*, ISBN 818797227-0.

The book is written for undergraduate and graduate students of civil engineering, water resources engineering, environmental engineering, agriculture engineering and earth sciences, and for those who are pursuing a degree or diploma course in the areas of water resources development, water resources management, hydrogeology, and geohydrology, and also for various centres of environmental science & engineering.

Seminars

Department of Mathematics

Dr. Rajasekhar Bhattacharyya, Physics Department, Dinabindhu Andrews College, University of Kolkata, delivered two seminars on "A Brief Review of Tight Closure Theory" and "Phantom Exactness, Flatness and Phantom Homology" on 15th and 16th November 2007, respectively

Department of Metallurgical Engineering & Materials Science

Mr. Suprakas Sinha Ray, National Centre for Nano-Structured Materials, Council for Scientific and Industrial Research, Republic of South Africa, delivered a seminar on "Fundamental Aspects to Real Applications of Clay Containing Polymer Nanocomposites" on November 22, 2007.

Dr. Martin Jackson, Imperial College London, UK, delivered a lecture on "Titanium; 21st Century Metal in Transition" on November 12, 2007

Prof. H. Minoura, Department of Science & Faculty, Gifu University, Japan, delivered a seminar entitled "Preparation of ZnO/ Dye Nano-hybrid Films by Electrodeposition for Efficient, Flexible Colorful Dye-sensitized Solar Cells" on November 20, 2007.

Dr. R. Krishnan, (Retd.) Laboratory Mag., Opt. Matls., CNRS, France, delivered a seminar on "A Journey from Amorphous to Nanomagnetic Materials" on November 27, 2007.

Prof. Gopalan Srinivasan, Physics Department, Oakland University, USA, delivered a seminar on "Multiferroics: Magnetoelectric Interactions, Sensors and Device." on November 27, 2007.

News from IIT Hospital



Dr. V. T. Ingalhalikar, President of Bombay Orthopedic Society, delivering the introductory lecture

IIT Hospital, in collaboration with Golden Jubilee Celebration Committee, conducted a symposium on "Osteoporosis - Past, Present and Future" on October 28, 2007.

Dr. V. T. Ingalhalikar, President of Bombay Orthopedic Society, gave the introductory lecture on the subject. Eminent doctors from P.D.Hinduja Hospital spoke about different aspects of Osteoporosis. They are: Dr. Manoj Chadda, Endocrinologist, and Dr. Tripti Vasudevan, Physiotherapist.

Speaking on the occasion, Prof. Ashok Misra, the chief guest at the symposium, emphasized on making IIT Hospital into a center of disease prevention and a facility for promoting good health.

Followed by talks was an interactive session, where Physiotherapist Dr. Tripti Vasudevan and Endocrinologist Dr. Manoj Chadda stressed on the need of balanced diet and exercise in prevention and management of osteoporosis and showed different exercises for toning muscles and proper postures.

While thanking the speakers and the participants, Dr. Nisha Shah, SMO, said that IIT Hospital would endeavour to organise more such programmes in future.

Prof. Dipen Ghosh, Member, Golden Jubilee Celebration Committee, also thanked the speakers and the participants at the symposium.

Faculty News

Department of Physics

Prof. P. Ramadevi delivered a seminar on "Chern-Simons Gauge Theory and Topological Strings" at Perimeter Institute, Waterloo, Canada, during June-July 2007.

Centre for Environmental Science and Engineering

Prof. A.K. Dikshit was invited by the University of Mumbai on the occasion of Biotechnology Day celebrations on November 14, 2007. He delivered a talk on "Environmental Biotechnology for Pollution Control" at the Marathi Bhasa Bhawan, Santracruz (E), to the faculty, staff and students as well as other invitees from environmental science and life science departments.

Staff News

The second edition of **Dr. D.N. Phadke's** (Asst. Librarian, S. G., Central Library), Marathi book entitled "Granthalaya Sanganikaran Aani Adhunikaran (Library Computerisation and Automation)" has been published by the Universal Prakashan Pune in 2007. The first edition was published in January 2007. The book has been prescribed as a textbook for M.Phil. course in Library and Information Science of Yashwantrao Chavan Maharashtra Open University, Nasik. The book is also found to be useful for NET/SET exam in the field.

Student News



Mood Indigo 07

MOOD INDIGO will be celebrated from 26th to 29th December 2007. The theme for Mood Indigo 07 is 'ENCORE - a celebration of music'. As with so much else in the sports and cultural activities, Mood Indigo has its wellspring in the IITians of early years. Here is a brisk trek back to its origins.

It all started with a group of IITians who felt that it was about time to have an inter-college cultural fest of their own. Starting off with a few hundred rupees, the seeds of Mood Indigo were sown in 1967. Over the years MoodI has served as a launching pad for upcoming artists - musicians, actors, painters *et al.* Testimony to this are the initial years of MI when the inconspicuous dramatics secretary of National College, Amjad Khan, took home the Dramatics trophy for four consecutive years. He later went on to portray the most memorable character of Hindi Cinema - **Gabbar Singh** - on the silver screen. At one point of time, a particular person directed a play at a dramatics event at MI. This person later became famous by the name of **Mani Ratnam**. Similarly MI has been a platform for celebrities like **Hrishiha Bhatt, Ishita Arun**, and many more.

MOOD INDIGO, the annual cultural festival of IIT Bombay is the biggest student cultural celebration in the country. With a participation of around 60,000 students from more than 450 colleges spanning the length and breadth of the country and with a four-day and four-night long celebration with the euphoric start and jubilant ending colouring every aspect of music, drama, dance, exhibitions, films and competitions that have a distinct flavor, MI truly embodies the spirit of the youth.

Over the years, MI has evolved into a vast treasure-trove of exuberance, energy, music, magic and unlimited fun. Each year the sprawling campus of IIT Bombay hosts a plethora of competitions, workshops, live performances and wacky fun events. MI exemplifies the spirit of camaraderie and competition, of people coming together with one common goal, that of creating something spectacular.

News from K. V. Powai

Seven students of the IITB Swimming Club were selected to represent Maharashtra State in the All India Kendriya Vidyalaya Swimming Meet held at Bhopal from 12th to 16th October 2007. Four of them – Ms. Pratima Satish, Ms. Sneha Raut, Ms. Apoorva Phale and Ms. Namashya Sahoo – participated in the competition. Ms. Pratima Satish won two golds (200 mtrs Breaststroke and 200 mtrs Individual Medley) and one silver (100 mtrs Butterfly) in the category 'Girls under 19 years'. Ms. Sneha Raut won two bronze medals (200 mtrs Breaststroke and 200 mtrs Freestyle) in the category 'Girls under 14 years'.

The second Inter-club Swimming Gala was organized by *The Club*, Mumbai on 24th November 2007. In the category 'Boys under 12 years', Master Siddharth Rao Deb won one gold medal creating a new meet record (100 mtrs Butterfly/Breaststroke), two silver medals (100 mtrs Backstroke/Freestyle and 100 mtrs Freestyle/Backstroke) and got 4th position in 100 mtrs reverse Individual Medley and 5th position in 100 mtrs Breaststroke / Butterfly stroke).

Appointments

Prof. (Ms.) Meenakshi Gupta, Department of Humanities & Social Sciences, has been appointed as the Head of Department from October 24, 2007, for a period of three years.

Events

CEP Courses			
No.	Course Title	Coordinator / Department	Date
1.	Piping Engineering	Prof. A. S. Moharir Dept. of Chemical Engg.	December 05 - 18
2.	Recent Trends in Power System Operation and Control	Prof. A. M. Kulkarni Dept. of Electrical Engg.	December 05 - 09
3.	Manufacturing Optimization - Taguchi Methods	Prof. S. S. Joshi Dept. of Mechanical Engg.	December 18 - 19

Prof. S. Biswas, Department of Computer Science & Engineering, has been appointed as the Dean of Academic Programmes from November 23, 2007, for a period of three years.

Dr. Shripad M. Garge has been appointed as an Assistant Professor in the Department of Mathematics from November 28, 2007.

Dr. (Ms.) Mrinmoyi Kulkarni has been appointed as a Lecturer (Sr. Scale) (Contract) in the Department of Humanities & Social Sciences from November 1, 2007, for a period of three years.

Dr. Subimal Ghosh has been appointed as an Assistant Professor (Contract) in the Department of Civil Engineering from November 16, 2007, for a period of two years.

Prof. Stephen J. Lippard has been appointed as a Distinguished Guest Professor in the Department of Chemistry from November 16, 2007, for a period of three years.

Retirement

as on 31.12.2007

Dr. M. G. Srinivas
C.S.R.E.

Shri R. V. Padmanabhan
IIT Hospital

Shri B. S. Gaikwad
Department of Electrical Engineering

Campus Diary is edited and published by Public Relations Officer, IIT-Bombay, Powai, Mumbai - 400 076. Printed at IIT Printing Press. **For Private Circulation Only.**

Material for publication in Campus Diary should reach PPR section by the 25th of every month (email : pro@iitb.ac.in)

