

## CSRE Wins Academic Excellence Award 2007



*Dr. G. Venkataraman receiving the award from the Prime Minister*

The Defense Research and Development Organization (DRDO), Ministry of Defense, annually gives away "Academic Excellence Award" to Institutes/Departments/Centres with which it is collaborating and benefiting by research contributions. For the year 2007,

"Academic Excellence Award 2007" is conferred on CSRE for its research contributions in the field of Snow, Ice, Avalanches and Glacier in the Himalayas.

This award is given to the following team: Prof. D. Chandrasekharam, Head, CSRE Dr. G. Venkataraman,

Team Leader, and Principal Investigator Dr. M. V. Khire, Dr. R. Nagarajan, Dr. Y. S. Rao. A citation and a cash prize of Rs. one lakh is given to each team member. The award was given by Hon'ble Prime Minister of India on 12th May 2008 in DRDO Bhawan, New Delhi. Dr. Venkataraman received the award on behalf of the team.

## IIT Bombay launches Mega Global Initiative to discover "10 Great Ideas to Change the World"

Worldwide participation from IITB alumni, faculty, staff and students

Keeping with its commitment to contribute to world development through innovative measures, IIT Bombay (IITB) launched a Mega Global Initiative to discover '10 Great Ideas to Change the World in the next 50 years' on May 9, 2008, at F. C. Kohli Auditorium. This Golden Jubilee initiative was launched by noted Indian industrialist and thought leader, Mr. Adi Godrej, Chairman, Godrej Group, and a member of IITB Advisory Council.

A website <http://10greatideas.iitb.ac.in> was also launched for online submission of ideas during the period May 9, 2008 to October 30, 2008.

This project aims to invite IITB's alumni, students, faculty and staff – past and present – to send in their revolutionary ideas from across the world in the area of science and technology for the betterment of mankind. The contest will be judged by



*Mr. Adi Godrej speaking at the event*

thought leaders and ideators from across the globe such as: Principal Scientific Advisor to the Government of India Dr. R. Chidambaram, Former Head of Nanoscience at Cambridge University and Scientific Advisor to Government of UK, Prof. Mark Welland, Chief Mentor of Infosys Mr. N. R. Narayana Murthy, Director Forbes Marshall India Mr. Naushad Forbes,

Chairman Nicholas Piramal India Ltd. Mr. Ajay Piramal, American biologist Dr. Craig Venter, Co-Founder of Intellectual Ventures and former CTO of Microsoft Dr. Nathan Myhrvold. The panel will be chaired by former president and a great visionary, Dr. A. P. J. Abdul Kalam.

The selection of the "10 Greatest Ideas" will be completed by February 28, 2009, and the owners of the ideas will be invited to present a White Paper at a Round Table summit in March 2009, towards the end of IITB's Golden Jubilee celebration period.

The intellectual property for each idea contributed to this unique project will be owned by the ideator, and will receive recommendation and support by IITB, across relevant world institutions for possible implementation.

## IIT Bombay Awards 'Legacy Gift' to New Young Faculty



*Prof. Rahul Patil (right) receiving the "Legacy Gift" from the 1982 batch.*

As part of its Golden Jubilee celebrations, IIT Bombay awarded a 'Legacy Gift' on June 16, 2008, to five young faculty members who had joined after January 2008. These awards were instituted by the Class of 1982 to attract and retain top talent in academics.

The recipients of the award are: Professor Rahul Patil, School of Management, Professor Dinesh

Sharma, School of Management, Professor Anirban Guha, Mechanical Engineering Department, Professor Ramesh Singh, Mechanical Engineering Department and Professor Subimal Ghosh, Civil Engineering Department. The awards were given away at a ceremony by Professor J. M. Vasi, Deputy Director, in the presence of Professor R. K. Shevgaonkar, Dean of Resource Mobilization, Professor Devang Khakhar, Dean of Faculty and Professor Ananth Iyer of Purdue University in the U.S. and an alumnus of 1982 batch.

The function was attended by almost 25 alumni from the 1982 batch. The Class of 1982 of IIT Bombay has pledged Rs. 4.3 crores. Under this, each new faculty joining the institute will receive a 'Legacy Gift' of Rs 3 lakh. The Class of 82



*Prof. Devang Khakhar, Dean Faculty speaking at the event.*

alumni, including names like Mr. Jagdish Joshi, Mr. Natraj Dinkar, Mr. Bakul Desai, Mr. Ajit Ranade and Mr. Manohar Parrikar, ex-CM Goa, expressed their enthusiasm for the successful launch of this project. Most of them have played a key role, irrespective of their geographical location, in terms of raising money and building a volunteer team.

### Inauguration of Earth Sciences Building



*Mr. M. S. Srinivasan inaugurating the Earth Sciences Department along with Prof. Ashok Misra*

The Department of Earth Sciences building was inaugurated by Mr. M.S.Srinivasan, Hon'ble Secretary, Govt of India, Ministry of Petroleum and Natural Gas on 2<sup>nd</sup> May, 2008. Along with that the BG Petroleum Geoscience

Research Laboratory, which is a part of the Department of Earth Sciences, was also inaugurated. The Inauguration programme was celebrated as part of the Silver Jubilee of the Department and Golden Jubilee of IIT Bombay.

### JEE 2008 Results

The results of JEE (Joint Entrance Examination), held on April 13, 2008, have been declared. One of the important features of JEE 2008 results is that OBC reservation has been implemented and a separate merit list for OBC candidates declared. The Government of India had issued a notification for setting up eight new IITs in Andhra Pradesh, Bihar, Gujarat, Himachal Pradesh, Madhya Pradesh, Orissa, Punjab and Rajasthan. Admissions to six of them, namely, Andhra Pradesh, Bihar, Gujarat, Orissa, Punjab and Rajasthan, are likely to be made through JEE 2008. This year a new JEE centre has been opened outside India at Dubai to facilitate the aspirants abroad.

### Salt 'n Pepper

by Dr. Arun Inamdar



### News from Gymkhana



#### Annual 23rd Summer Swimming Camps 2008

A total of 70, including students, staff, and their dependants took part in Beginners, Intermediate and Advanced level swimming camps held in two phases from 16th April to 22nd May 2008.

The following kids swam the distance of 1 km and above in one-hour endurance test from the Beginners group:

Master Chinmay Karanjkar 1.5 km, Master Veerav Chebrolu 1.5 km, Master Roshan Mathew 1.3 km, Master Chaitanya Varekar 1.25 km, Master Varad Mahajan 1.10 km, and Master Aditya Petety 1.05 km.

From Intermediate group, swimmers who did 2 km and above in one-hour endurance test are:

Miss Chhandita Chavan 2.55 km, Master Swapnesh Walunj 2.45 km, Miss Sweta Bambodkar 2.45 km, Miss Namashya Sahoo 2.20 km, Master Pawan Chandiramani 2.20 km, Prof. Sharat Chandran 2.15 km, Miss Sharanya Chandran 2.05 km, Master Prithvi Chandiramani 2 km and Miss Priyanka Prasad 2 km.

From Advanced level, Master Siddarth Rao Deb, 11 years old, representing IIT swimming club, competing in under 13 years age group, won silver & bronze in 100 m & 50 m Breaststroke at Mumbai District Age Group Meet held at TATA pool, Chembur, on 1st & 2nd May 2008. Siddarth has been selected to represent Mumbai District at Maharashtra State Age Group Meet to be held at Satara from 31st May to 2nd June.

Prof. K. P. Madhavan was the Guest of Honor who distributed certificates to all the participants.

### Faculty News

**Dr. V. D. Sharma**, FNA.Sc., FNA., Department of Mathematics, visited Stanford University, USA, during the period from November 2007 to March 2008 and delivered an invited lecture on "Weakly nonlinear waves" to the Applied Mathematics Group, Department of Mathematics on January 11, 2008. Dr. Sharma also delivered an invited lecture on "Mathematical modelling in engineering sciences" to the Mathematics faculty and PG students under the Distinguished Colloquium Series at the North Maharashtra University (March, 2008).

**Prof. P. Ramadevi**, Department of Physics gave a seminar "Chern-Simons field invariants and topological strings" at CERN, Geneva, on 17th June 2008.

**Prof. G. Mukhopadhyay**, Department of Physics, delivered a talk on "Scattering and Absorption of EM Radiation by coated Ellipsoidal Nanoparticles" at California NanoSystems Institute (CNSI), USA, Seminar Series, on 3rd June, 2008. He also interacted with a number of members aiming for future collaborations.

**Prof. Arun Kumar De** [who was Head, Department of Mechanical Engineering, around the late sixties, and IITB Director for about a decade (1974-1984), and currently Emeritus Professor with the Department] has written his biography, titled *Meandering Streams*. The book has been published by Shee Book Agency, Kolkata 700006, in April 2008. The book gives an excellent account of the early history of the institute and the department, and the development of

the institute over the decade (1974-84). **Prof. M. Janga Reddy**, Department of Civil Engineering, delivered a keynote address at a national conference on "Sustainable Water Resources Development and Management (SWRDAM-2008)" and on "Recent trends in Water Resources Systems Modeling and Management" held at Aurangabad on March 14, 2008. He also chaired a session on "Application of Soft Computing Techniques and GIS to Water Resources and Environmental Engineering".

**Prof. Rajib Maity**, Assistant Professor, Department of Civil Engineering, visited Flinders University, Adelaide, Australia, as an Honorary Visiting Scholar from 26th May to 25th June 2008. During his stay there, he also visited the University of Adelaide and South Australia Research & Development Institute (SARDI).

**Prof. Pushpak Bhattacharyya**, CSE Department, visited Marrakesh, Morocco to attend the Lexical Resource Engineering Conference (LREC08) held during 26-31 May, 2008. He presented the paper "Lexical Resources for Semantics Extraction" (joint work with Dr. Rajat Mohanty) in this conference. Subsequently, Prof. Bhattacharyya visited University Polytechnic De Madrid at Spain in the period 1-5 June, 2008, where he conducted discussions on Universal Networking Language (UNL) an interlingua for machine translation and also delivered a talk on semantics extraction.



### Awards and Distinctions

**Prof. Krishna P. Kaliappan**, Department of Chemistry received Swarnajayanti Fellowship from DST for the year 2006-07.

**Prof. Krishna P. Kaliappan**, Department of Chemistry received the B. M. Birla Science Prize (Chemistry) for the year 2006.

**Prof. Ashok Misra**, Director, has been awarded the Distinguished Alumnus Award of the year 2007-2008 for his outstanding managerial contributions and contributions to the field of Chemical Engineering.

**Prof. Milind Malshe**, Department of Humanities and Social Sciences. His book *Aadhunik Sameekshaa Siddhaanta* (co-author: Prof. Ashok Joshi, Goa University; publisher Mouj Prakashan, Mumbai) has been awarded the prestigious Anushtubh Puraskar Vibhaavari Patil Puraskar for the best book in Marathi in 2007-08.

**Prof. Rajib Maity**, Assistant Professor, Department of Civil Engineering, received an academic visit grant from the International Centre of Excellence in Water Resources Management (ICE WaRM), Australia, under the International Liaison Programme.

**Prof. Deepankar Choudhury**, Department of Civil Engineering, has been selected as a Member of the National Academy of Sciences (M.N.A.Sc.), India. Prof. Choudhury has also been selected as a Member of the Institute of Engineering (India).

**Prof. M. V. Rane**, Department of Mechanical Engineering has been selected for the 2005 VASVIK Award.

**Dr. Preeti Aghalayam**, Department of Chemical Engineering has been selected for the IChE's "Diamond Jubilee Young Achiever's Award".



## Publications/ Presentations

Prof. Atul Sharma, Department of Mechanical Engineering, has published a paper entitled "Consistent Implementation and Comparison of FOU, CD, SOU and QUICK Convection Schemes on a Square, Skewed, Trapezoidal and Triangular Lid Driven Cavity Flow" in Vol. 54, pp. 84-102, July '08 of *Numerical Heat Transfer, Part B*. The article is co-authored by his PhD student Mr. Sachin B. Paramane.

Prof. Amit Agrawal, Department of Mechanical Engineering, along with Prof. Atul Sharma, Kumar S. and Shashi Ranjan, has published a paper entitled "Simulation of flow around a row of square cylinders" in *Journal of Fluid Mechanics*, Volume 606 (2008), pages 369-397.

Dr. V. D. Sharma, FNASc., FNA., Department of Mathematics, along with Raja Sekhar T. published a papers, "Similarity solutions for three dimensional Euler equations using Lie group analysis" in *Appl. Math. Comput. (Elsevier)*, vol. 196 (2008), no. 1, 147-157.

Jena, J. and Dr. Sharma, V. D. has published a paper "Interaction of a characteristic shock with a weak discontinuity in a relaxing gas" in *J. Engng. Math. (Springer)* Vol.60 (2008), no. 1, 43-53.

Prof. P. Ramadevi, Department of Physics, with Prarit Agarwal, and Tapobrata Sarkar, has published a paper entitled "A note on dimer models and D-brane gauge theories" in *Journal of High Energy Physics* 06 (2008) 054.

Prof. G. Mukhopadhyay, Department of Physics, presented two papers (oral) and (poster) on "Scattering of EM waves by small magnetic particles" and "On Magnetic Nanoparticles in a colloidal fluid" along with Shruti Puri, Saurabh Sharma and Pragati Mukhopadhyay respectively at the "Particles 2008, Particles Synthesis,

Characterization, and Particle-Based Advanced Materials", 10-13 May, 08, Orlando, Florida, USA. During 15-18 June, Prof. G. Mukhopadhyay also presented a paper (oral) on "Magnetic Nanoparticles of ellipsoidal shape in colloids" with Shruti Puri and Saurabh Sharma at "The 82nd Colloid & Surface Science Symposium", NC State University, Raleigh, NC, USA.

## Student News

Mr. Anupam Ghosh, Research Scholar, Department of Earth Sciences, presented a paper on "Present day biofacies and quaternary sea level changes in the Gulf of Cambay, India" and represented British Gas India at the British Gas Subsurface Ph.D. Students Forum held at Thames Valley Park, Reading, UK, during April 2nd-3rd, 2008.

## Film Screening

### The Future Beneath Our Feet

Documentary film titled 'The Future Beneath Our Feet', funded by the British Environmental Council, was screened on the occasion of World Environmental Day on 5th June on DD National. The film was mentored by IITB faculty.

## Appointments

Prof. P. M. Mujumdar, Department of Aerospace Engineering has been appointed as the Head of the Department of Aerospace Engineering vice Prof. K. Sudhakar from June 10, 2008.

Ms. Jaya Joshi has been appointed as Public Relations Officer in the Publications & Public Relations Section from June 12, 2008.

Shri Sarvesh Kumar has been appointed as a Research Associate in the Department of Mathematics for a period of 6 months from May 12, 2008.

Dr.(Ms.) Ruchi Anand has been appointed as an Assistant Professor

(Contract) in the Department of Chemistry from May 20, 2008.

Prof. K. S. Valdiya, has been appointed as Distinguished Guest Professor, in the Department of Earth Sciences for a period of two years from May 21, 2008.

Dr. Rahul J. Patil has been appointed as an Assistant Professor in the Shailesh J. Mehta School of Management from May 12, 2008.

Dr. Sobhan Babu has been appointed as a Post Doctoral Fellow in the Department of Computer Science and Engineering from May 20, 2008.

Shri Madhukar S. Marathe, Senior Superintendent, Administration Section has been appointed as Assistant Registrar from May 30, 2008.

Shri Gopal R. Chilap, Junior Technical Superintendent, Printing Press has been appointed as Manager, Printing Press from May 30, 2008.

Shri Chintamani P. Joglekar, Assistant Registrar, Administration Section has been appointed as Co-ordinator (Personnel Training & Development) from May 30, 2008.

Ms. Prema A. Rajan, Superintendent, Accounts Section has been appointed as Assistant Registrar from May 30, 2008.

Dr. Anand B. Rao, Assistant Professor (Contract), Centre for Technology Alternatives for Rural Areas (CTARA) has been appointed as an Assistant Professor in the same Centre from June 25, 2008.

Dr Pankaj Dutta has been appointed as an Assistant Professor in the Shailesh J. Mehta School of Management from June 23, 2008.

## Retirements

as on 31.07.2008

1. Shri Dayashankar Gupta  
Accounts Section
2. Ms. Jijabai Sakharam Salve  
Public Health Office
3. Shri Ramkripal Shrinath Shukla  
Security Section.

<b>Events</b>		
CEP Courses		
Course Title	Coordinator / Department	Date
Supply Chain Management	Prof. A. Subhash Babu CARE	July01 – 05
Hydrologic Impacts of Climate Change and Sustainable Development	Prof. R. Maity, Civil Engg. Prof. S. Ghosh	July04-05
CFD Analysis in Chemical Engineering	Prof. P. Sunthar, Chem. Engg.	July07 – 11
Urban Drainage Management: State-of-the-art	Prof. Kapil Gupta, Civil Engg.	July10 – 12
Rapid Product Development & Rapid Manufacturing	Prof. K.P. Karunakaran Mech Engg.	July21 - 25

**In the Wilderness**



**Golden Owls:** A family of four enjoying a moment of solitude

*Photo courtesy: Prof. T. K. Biswal  
Venue: Ananta Building*

From this month onwards we are introducing a new section called: "In the Wilderness".

The section will feature photos of rare birds, animals and natural occurrences in the campus. We invite your contributions.

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