



# Campus diary

October - November 2014

<http://www.iitb.ac.in/CampusDiary/CD.html>

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

## IIT Bombay felicitates faculty members

IIT Bombay felicitated its select faculty members with **Excellence in Teaching Awards - 2014**, **Dr. P. K. Patwardhan Technology Development Award (2013)**, and **IRCC Research and Industrial Consultancy Awards (2013)** on November 11, 2014, in recognition to their contribution in the field of teaching and research at the Institute. The function coincided with **National Education Day**, observed at the Institute.

The awards were presented by the Director of IIT Bombay, Prof. Devang V. Khakhar. Speaking at the occasion, Prof. Khakhar said, *"I am glad that the awards to our faculty members are being presented on the auspicious occasion of National Education Day, which commemorates the birth anniversary of leading nationalist Maulana Abul Kalam Azad. We have around 580 faculty members at the Institute, out of whom few are being recognized today, after being selected through a robust process, and this makes them truly outstanding as teachers and researchers."*

The Excellence in Teaching Awards were initiated by the Institute way back in 1996. Students at the function, introduced their professors and presented their perception of what made them notable teachers.

The recipients of the Awards for **Excellence in Teaching (2014)** were:

- Prof. Paulomi Chakraborty, Humanities & Social Sciences
- Prof. C. D. Sebastian, Humanities & Social Sciences
- Prof. V. M. Gadre, Electrical Engineering
- Prof. V. K. Singh, Chemistry
- Prof. Dinesh K. Sharma, Electrical Engineering
- Prof. Ranjith Padinhateeri, Biosciences & Bioengineering
- Prof. Prakash Nanthagopalan, Civil Engineering
- Prof. Sanjeeva Srivastava, Biosciences & Bioengineering
- Prof. B. V. Limaye, Mathematics
- Prof. T. K. Biswal, Earth Sciences

**Dr. P. K. Patwardhan Technology Development Award for the year 2013** was awarded to:

- Prof. N.G. Shah, Centre for Technology Alternatives for Rural Areas and his team.
- Prof. S.M. Mahajani, Department of Chemical Engineering and his team.

**IIT Bombay Research Paper Award for the year 2013** went to:

- Prof. S.K. Maiti and D.P. Patil, Department of Mechanical Engineering.
- Prof. Anuradda Ganesh, Department of Energy Science and Engineering (and Piyali Das, Promod Wangikar, Chemical Engineering)

- Prof. Anirban Sain, Department of Physics (and Biplab Ghosh)
- Prof. M. Ravikanth, Department of Chemistry (and M. Rajeswara Rao, Shaikh M. Mobin)

**IIT Bombay Review Paper Award for the year 2013** went to:

- Prof. Chebrolu Pulla Rao, Department of Chemistry (and Roymon Joseph).
- Prof. P.I. Pradeepkumar, Department of Chemistry (and Siddarth Shukla, Chintan S. Sumaria).

**IIT Bombay Young Investigator Award for the year 2013** went to:

- Prof. P. Vedagiri, Department of Civil Engineering
- Prof. Debraj Chakraborty, Department of Electrical Engineering

**IIT Bombay Industrial Impact Award for the year 2013** went to:

- Prof. Milind D. Atrey, Department of Mechanical Engineering

The award function was attended by Prof. Subhasis Chaudhuri, Deputy Director (AIA), Prof. Prasanna Mujumdar, Dean (R&D), Prof. J.K. Verma, Dean (Faculty Affairs), Heads of Departments, faculty members and students in large numbers.

### Excellence in Teaching Awards – 2014 presented by Prof. Devang V. Khakhar, Director, IIT Bombay



Prof. Paulomi Chakraborty,  
Department of Humanities & Social Sciences



Prof. C.D. Sebastian,  
Department of Humanities & Social Sciences



Prof. V.M. Gadre,  
Department of Electrical Engineering



Prof. V.K. Singh,  
Department of Chemistry



Prof. Dinesh K. Sharma,  
Department of Electrical Engineering



Prof. Ranjith Padinhateeri,  
Department of Biosciences & Bioengineering



*Prof. Prakash Nanthagopalan,  
Department of Civil Engineering*



*Prof. Sanjeeva Srivastava,  
Department of Biosciences & Bioengineering*



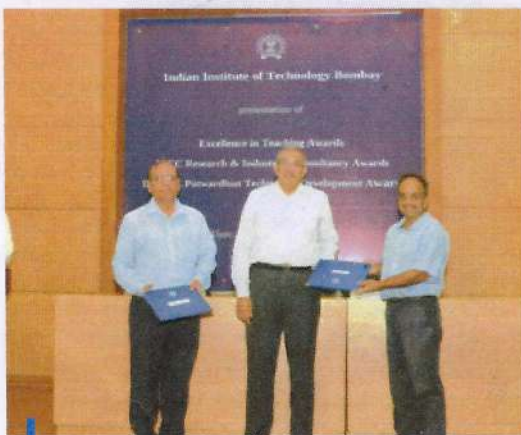
*Prof. B.V. Limaye,  
Department of Mathematics*



*Prof. T.K. Biswal,  
Department of Earth Sciences*

**Dr. P.K. Patwardhan Technology Development Award for the year 2013**

**IIT Bombay Industrial Impact Award for the year 2013**



*Prof. N.G. Shah from CTARA and Prof. S.M. Mahajani from the Department of Chemical Engineering*



*Prof Milind D. Atrey,  
Department of Mechanical Engineering*

### IIT Bombay Research Paper Award for the year 2013



Prof. S.S. Joshi, Head, Department of Mechanical Engineering receiving the award on behalf of Prof. S.K. Maiti



Prof. S. Bandyopadhyay, Department of Energy Sciences and Engineering receiving the award on behalf of Prof. Anuradda Ganesh



Prof. Anirban Sain, Department of Physics



Prof. A.Q. Contractor, Department of Chemistry receiving the award on behalf of Prof. M. Ravikanth

### IIT Bombay Review Paper Award for the year 2013

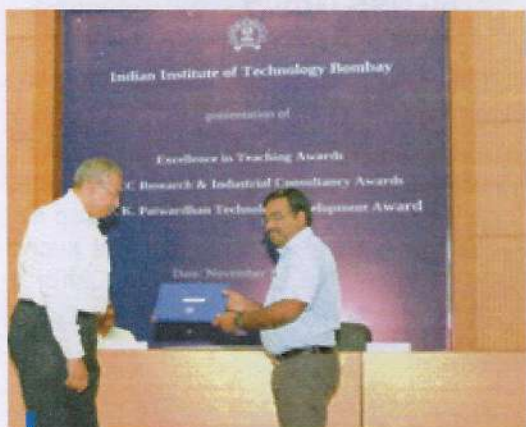


Prof. Chebrolu Pulla Rao, Department of Chemistry



Prof. P.I. Pradeepkumar, Department of Chemistry

## IIT Bombay Young Investigator Award for the year 2013



Prof. P. Vedagiri, Department of Civil Engineering



Prof. Debraj Chakraborty, Department of Electrical Engineering

## Inter IIT Aquatics Meet held with much fanfare

IIT Bombay hosted the **Golden Jubilee edition of the Inter IIT Sports Meet**, this year. The Tournament included an Inter IIT Aquatics Meet, which was held between October 1-4, 2014 and the Main Meet, was held during December 12-19, 2014.

The Aquatics Championship was flagged off by Arjuna awardee, Mr. Virbhawal Khade, the Chief Guest for the opening ceremony on September 30, 2014. Mr Khade currently holds national records in five different swimming events.



March Past of the IITB contingents at the Opening Ceremony

The event also saw the launch of **Mashal** - an initiative to endorse and improve primary education among children. The Organizing Committee of Sports Meet at IIT Bombay decided to raise money through runs conducted in all 16 IITs. The Inter IIT Torch symbolizing peace, goodwill and harmony, was sent to all the IITs and the students ran with the Torch. The first run was held in IIT Bombay on October 11, 2014 and runs in other IITs followed subsequently. The funds collected through this initiative were donated to Smile Foundation. The NGO will utilize these funds on programmes supporting primary education and will help the underprivileged in our society. Renowned actor Mr. Shreyas Talpade visited IIT Bombay campus to encourage participation for the run.

The championship included a total of 22 events in swimming, for men and women, of both individual and relay type. In addition, water polo was also a part of the championship. IIT Bombay has world class facilities for Aquatics on campus. A 50m Olympic size swimming pool was constructed in 2010,

which was used the championship. The pool is well equipped with diving boards and lane dividers and is fully facilitated for water polo as well. "The swimming standard in men's events at Inter IIT is at par with the All India Inter-University Meets, as is evident from our records," said Dr. P. M. Reddy, Organizing Secretary for the 50th Inter IIT Sports Meet, as well as coach of the IIT Bombay aquatics team.



The dignitaries on stage (L-R) Prof. Subhasis Chaudhuri and Prof. H.S. Pandalai (Deputy Directors, IITB) Prof. D.V. Khakhar, Director, IITB, Chief Guest, Mr. Virbhawal Khade and Dean (SA) Prof. Urjit Yajnik

The meet continued for four days and concluded with the closing ceremony on the October 4, 2014. 25-year old Ms. Bhakti Sharma, the youngest swimmer to have swum the seven seas and four oceans, was the Guest of Honor for the closing ceremony.



The IIT Roorkee Women's team picking up the Women's Swimming Championship Trophy.

**Shailesh J. Mehta School of Management (SJMSOM)**, has been selected by the 22nd Business School Affairs and Dewang Mehta Business School Awards jury for the "Business School with Best Academic Input (Syllabus) in Information Technology". A certificate along with the trophy was presented on November 15, 2014 in a function held at the Taj Lands End, Mumbai.

### Health camp for construction workers by NSS Group

The NSS team, at IIT Bombay organized a health camp for the construction workers living on campus, on November 2, 2014.

The doctors at the camp performed general health checkup to all the participating worker and provided them with free medicines. More than 120 workers turned up at the health camp. NSS is planning to have more such health camp and hygiene workshops in the near future.

### Swachh Bharat Mission at IIT Bombay



Cleanliness drive organized at Kanjurmarg Railway station

IIT Bombay launched the 'Swachh Bharat Abhiyan' or 'Clean India Mission' on its campus, on October 2, 2014. The mission is set to achieve completely clean India by October 2, 2019, to mark the 150<sup>th</sup> birth anniversary of the Father of the

Nation, Mahatma Gandhi. Prof. Devang V. Khakhar, Director, IIT Bombay, launched the mission and administered the Sanitation Pledge to the campus community. Presentations on work already in process, that accounts the mission, such as "Clean and Green Campus" by the NSS Group and Public Health Office (PHO), "Biomass Gassification" by Prof. Sanjay Mahajani, Department of Chemical Engineering, and "Mission of Rejuvenation of Powai Lake and Rejuvenation of rivers in India", by Prof. Shyam Asolekar, Centre for Environmental Science and Engineering, were made at the function.

In line with the launch of 'Swachh Bharat Abhiyan', a student team 'Abhyuday' at IIT Bombay, organised cleanliness drive at '**Kanjurmarg Station**' - one of its nearby railway station on October 4, 2014. NSS student team also organized several activities on Campus including the cleaning of '**Y-point**' area of the campus on October 19, 2014.



IITB students set for cleanliness drive at IIT Bombay

### Student Alumni Meet (SAM 2014)

To facilitate Student-Alumni interactions and helps students avail the numerous benefits of IIT Bombay's pool of experienced alumni, Student Alumni Relation Cell (SARC) of IIT Bombay had organised Student Alumni Meet (SAM 2014) during October 11-12, 2014. The highlight of the meet included a panel discussion on 'Setting up of new IIT's: A genuine need or dilution of quality'.

Mr. Bharat Kewalramani, Co-founder, Indocean Chase Capital Advisors LDC, delivered the keynote address. It was followed by lecture series on "Beyond the Horizons" by Mr. Anand Sivakumaran, Writer and Director; Ms. Gaganjeet Singh and Mr. Sameer Mishra from Emotional fulls, successful alumni who took unconventional career choices, and a Spark Event on "Need for Import substitution and how IITians can achieve it?" by Mr. Shekhar Kulkarni, Founder & Chairman of MANIKS Systems Pvt. Ltd.

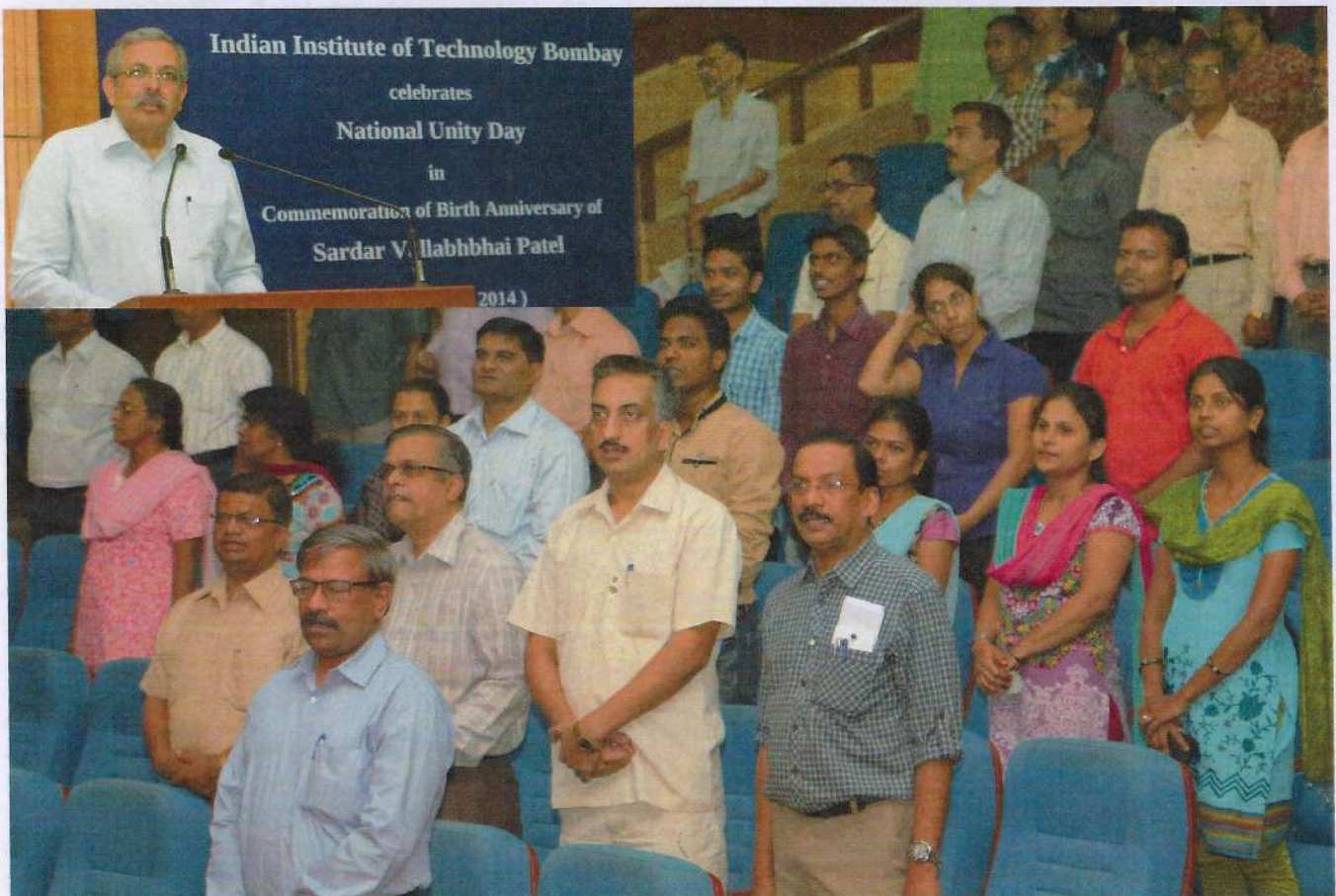
### Visit of Oman Minister



(L-R) Prof. Shubhasis Chaudhuri, Deputy Director (AIA), IIT Bombay, His Excellency Ali bin Masoud bin Ali Al Sunaidy, Minister of Commerce & Industry of the Sultanate, Oman and Prof. Devang V. Khakhar, Director, IIT Bombay

His Excellency Ali bin Masoud bin Ali Al Sunaidy, Minister of Commerce & Industry of the Sultanate of Oman lead a delegation to IIT Bombay on October 31, 2014. He interacted with Institute functionaries, faculty members and students during the visit.

## Rashtriya Ekta Diwas



Unity Pledge administered by Prof. D.V. Khakhar, Director, IITB on National Unity Day.

Commemorating the birth anniversary of Sardar Vallabh Bhai Patel, "**Rashtriya Ekta Diwas**" or **National Unity Day** was observed at IIT Bombay on October 31, 2014.



Winning entry at the Drawing Competition

A short function was organized at the Campus where students, faculty and staff members of the Institute came together and undertook the Unity pledge. The pledge was administered by the Director of the Institute, Prof. Devang Khakhar. A documentary film on Sardar Patel was also screened on the occasion. A drawing competition for school students residing on campus on the theme of National Unity was organised and top position holders were awarded prizes by Prof. Khakhar, who reminded everyone of the great contributions made by Sardar Patel in unifying the Country and urged everyone to ensure that the unity, integrity and security of the Country remains intact.



Director Prof. D.V. Khakhar presenting award to a winner of drawing competition during National Unity Day

"Run for Unity" was also organized on Campus in the evening, where a large number of students, besides some faculty members and staff also participated.

## Research in focus

Almost 70 years after independence nearly 600 million Indians do not have access to proper sanitation. A recent technology developed at IIT Bombay brings clean, eco-friendly, and affordable sanitation to the masses.

The recent elections highlighted the importance of sanitation, with competitive polemics and rhetoric being bandied about. Actually that is rather welcome. Indeed, the first Prime Minister of India said, "The day every Indian has toilet to use, I will consider India a developed nation." The father of nation has been widely quoted as having said, "Sanitation is more important than Independence."

The Industrial Design Centre at IIT Bombay has designed a toilet that does not require water for flushing. The design is hence called Dry-San for dry sanitation. The research and study has been funded by Ministry of Drinking Water and Sanitation.

Professor K. Munshi, Industrial Design Centre, IIT Bombay explains the design. The toilet has two levels of pit, a deeper pit and a shallower pit, one above the other. The shallow pit and deeper pit are separated by means of inclining slope, created through structure of bamboos. The pan at top could be of any material, but is presently proposed to be of stainless steel for lasting value. The design has a footrest for heels to ease sitting for elderly as well as for appropriate targeting of solid waste.

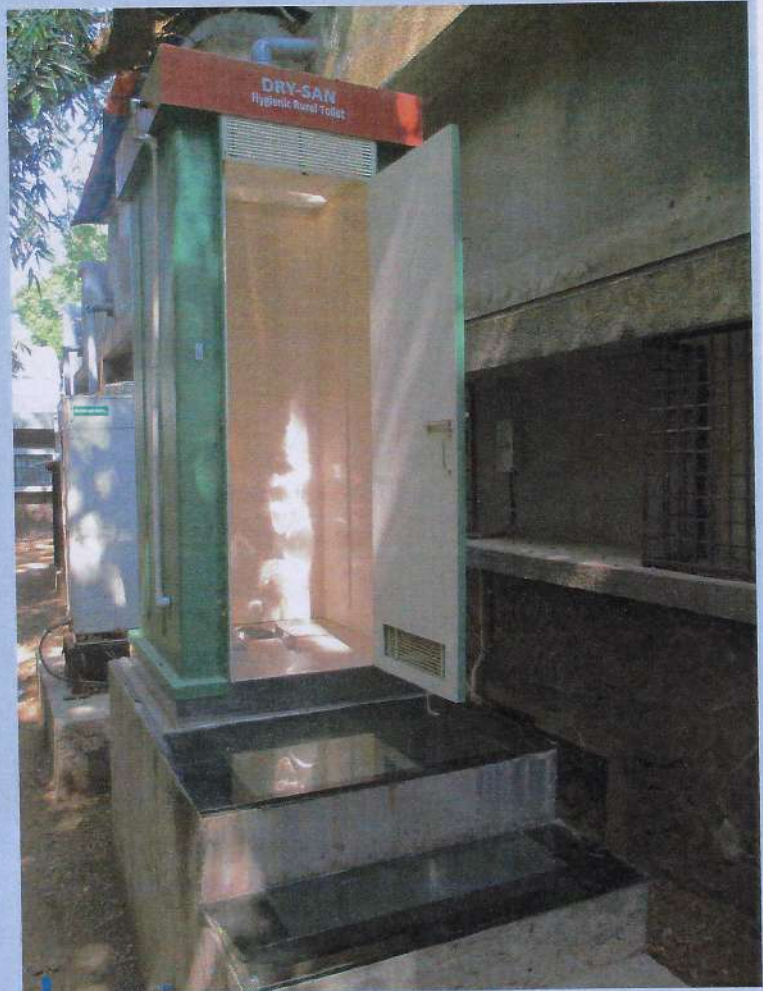
The solid waste falling into shallow pit slides over bamboo support. The deeper pit provides aeration and also allows water separation. Aeration also occurs at shallow pit thus allowing rapid decomposition. The rapid decomposition along with separation of water from bottom would reduce the weight of waste by almost 90% and the decomposed pathogen free waste oozes from the other edge of shallow pit is ready to act as manure.

The design of the shallow pit also envisages multiple levels of baffles in the shallow pit, to slow the descent of waste thus firstly allowing more time for aeration of waste and separation of water from waste. Secondly the baffles would also separate decomposed waste from fresh waste. Interestingly, the design separates urine from solid waste by collecting it from the front end of the pan into a separate container. Vapour odours are kept away from air by means of polystyrene balls that float above and allows retention of fertilizer value.

The design is already being used at one place at IIT Bombay for few months, proving its utility and practicality. The design would next be tested at 100 locations before a massive roll out on confirmation of suitability. While fabrication costs are presently around Rs. 30,000, mass production would bring down costs to below Rs. 10,000 thus making national implementation feasible.

For more information please visit: <http://www.iitb.ac.in/en/research-highlight/mahatmas-mandate-sanitation>

## Mahatma's Mandate: Sanitation



DRY-SAN Hygienic Rural Toilet installed at IIT Bombay



## INDIA-U.S. Technology Summit and Knowledgexpo-2014

IIT Bombay participated in the India-U.S. Technology Summit and Knowledgexpo organised by the Confederation of Indian Industry and the Government of India in partnership with Department of State of the United States during November 18- 21, 2014 at the Indian Expo Centre, in Greater Noida. The event was aimed to provide a platform to the experts from academia, industry, Government and other organizations, to highlight their concerns in various sectors like higher education, innovation, design, Intellectual property rights, technology as well as gave the audience an opportunity to interact and learn from stalwarts in their domains. The summit was focus on areas like Manufacturing, Biotechnology, Healthcare, Clean & Renewable Energy, Science & Technology, Research and Development, Higher Education, Intellectual Property Rights, Design, Innovation & Entrepreneurship among others.

Commenting on the expo Prof. Devang V. Khahar, Director, IIT Bombay said, "IIT Bombay believes in pursuing research that makes a difference. The Expo is indeed a wonderful opportunity for us to showcase the kind of R&D work our Institute is doing in varied and important areas such as healthcare, rural development, IT, design, manufacturing and technology. At the same time, the expo also allows us to see the kind of work our counterparts are doing in the US and share our best practices with other institutions / organizations for the benefit of mankind." He was also one of the panalists



Honorable HRD Minister, Mrs. Smriti Irani at IITB stall in Knowledgexpo 2014.

at the High level policy dialogue session on 'How to boost India-US partnership in the manufacturing, trade & investments in *manufacturing sector*'

Dr. Harsh Vardhan, Union Minister for Science & Technology & Earth Sciences, Mrs. Smriti Irani, Union Minister for Human Resource Development and high officials from India and U.S. were among the participants at the event. Prof. K. Narasimhan, Department of Metallurgical Engineering & Materials Science and Prof. Santosh J. Gharpure, Department of Chemistry, participated in the event as Institute official delegates from IIT Bombay. All IITs participation in the event was coordinated by IRCC, IIT Bombay.



IITB exhibits receives overwhelming response from the participants.

IIT Bombay along with 15 other IITs took part in the Knowledgexpo where in total 172 Exhibitors (both from Government and Industry) from India, US, Israel, Slovenia and Spain participated in the event. IIT Bombay exhibits included posters on technologies developed in the Institute (both in print and video version), IIT Bombay Videos and distributed R&D Resources booklet, Technology brochure, R&D Overview pamphlet and Technology fliers. IIT Bombay stall attracted an overwhelming response from the participants including honourable HRD Minister. IIT Bombay Exhibition was organized by Dr. V. Arumugam, IRCC and his team (Mr. Ramesh M. Rajput, Ms. Vanishree Hebbar, Mr. Majid Hassan Khan, PhD. Student, Department of Mechanical Engineering and Ms. Garima Jindal, PhD. Student, Department of Chemistry).

## Global R&D Summit 2014

IIT Bombay participated in the Research & Development (R&D) Exhibition organised by the Federation of Indian Chambers of Commerce and Industry (FICCI) and Department of Science & Technolog, Government of India in conjunction with the 'Global R&D Summit 2014' at the Lalit, New Delhi during November 12-13, 2014. The summit was aimed to connect with local and global research community and to create avenues for industry-academia-government partnerships by showcasing

R&D projects, programs and success stories to the R&D community. The event was inaugurated by Mr. Kalraj Mishra, Minister of Micro, Small and Medium Enterprises, Government of India. The focused themes of the summit were Biomedical Engineering & Biotechnology, Pharmaceuticals & Chemicals, Micro-electronics & Embedded Systems, Advanced Materials & Composites, Fuel Cells & Green Energy among others. Apart from IIT Bombay, 17 other Government

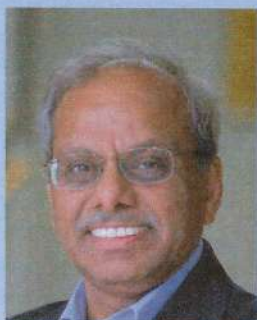


IITB stall for Global R&D Summit 2014

R&D institutions and Industry such as Defence Research and Development Organisation, Department of Atomic Energy, Reliance Industries Limited participated in the event.

IIT Bombay exhibits included posters on technologies developed in the Institute (both in print and video version), IIT Bombay Videos and distributed R&D Resources booklet, Technology brochure, R&D Overview pamphlet and Technology fliers. IIT Bombay stall attracted a large number of visitors including R&D personnel from the Government institutions and Industry apart from general public. IIT Bombay Exhibition was organized by Dr. V. Arumugam, IRCC and his team (Mr. Ramesh M. Rajput, Ms. Vanishree Hebbar, and Ms. Rusheeda Rajamohana)

### Institute Colloquium / Lectures & Seminars



**Prof. Rakesh Agarwal**, Winthrop E. Stone Distinguished Professor, School of Chemical Engineering, Purdue University, USA delivered an Institute Colloquium and the

annual Institute Distinguished Lecture (in memory of Professor C.V. Seshadri) on "Engineering a Sustainable Energy Future" on October 9, 2014. The lecture was organized by IIT Bombay in association with Indian National Academy of Engineering (Mumbai Chapter).



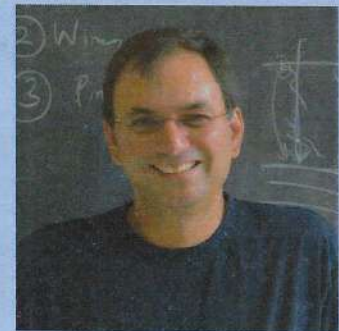
**Mr. Mickey Mehta**, Chairman & Managing Director, Mickey Mehta's 360 Degree Wellness Temple delivered a talk on "Holistic Mental Well Being" on October 10, 2014. The lecture was organized in conjunction with the Counselling Care unit of Student Affairs Office on the occasion of World Mental Health Day.



**Prof. Uriel Frisch**, Lagrange Laboratory, Observatoire de la Cote d'Azur, University of Nice, Member French Academy of Science, delivered the Second Annual - Indira Foundation Distinguished Lecture on "Cauchy's almost forgotten Lagrangian formulation of the Euler equation for 3D incompressible flow" on October 29, 2014.



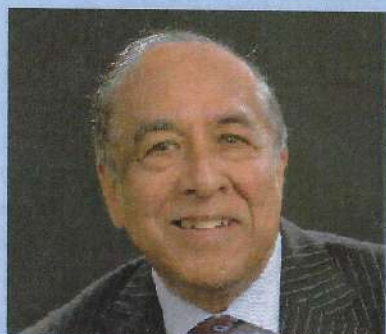
**Prof. H.K. Gupta**, FNA, FTWAS, National Geophysical Research Institute, Hyderabad, delivered Professor Daulat Singh Kothari Memorial Award Lecture of the Indian National Science Academy on "Triggered earthquake in Koyana region" on October 30, 2014. The lecture was presented by the Department of Earth Sciences, IIT Bombay and the Indian National Science Academy (Mumbai Chapter).



**Prof. Nitash P. Balsara**, Professor of Chemical Engineering, University of California, Berkeley, and Faculty Scientist, Lawrence Berkeley National Laboratory, University of California, United States delivered an Institute Lecture on "Nanostructured Block Copolymers for Lithium Batteries and Biofuels Purification" on November 10, 2014.



**Dr. Paul A. Rosen**, NASA-ISRO Synthetic Aperture Radar, (NISAR) Project Scientist Jet Propulsion Laboratory, NASA, Los Angeles, California, USA, delivered an Institute Colloquium on "The Shuttle Radar Topographic Mission: A 3D view of Earth for the New Millennium" on November 22, 2014.



**Prof. Riti Singh**, Emeritus, Cranfield University, United Kingdom, delivered an Institute lecture on "Advanced Gas Path Diagnostics: Opportunities & Challenges in Gas Turbines" on November 25, 2014.



**Prof. Michel Waldschmidt**, CNRS Professor, University of Paris VI, France, delivered an Institute Lecture on "Multiple Zeta Values" on November 26, 2014.

### 'Lectures on Nobel Prize Winners – 2014'

Industrial Research & Consultancy Centre (IRCC) has been annually organizing Lectures on Nobel Prize Winners, from the year 2009. This year, the lectures focussing on the Noble Prizes Winners of 2014 and the significance of their work in their respective fields, were organized on November 28, 2014 at the Institute. Prof. Krishna P. Kaliappan, Associate Dean (R&D) gave introductory remarks about the programme and Prof. A.Q. Contractor, Department of Chemistry chaired the event. Following experts gave lectures on the Nobel Prize 2014 Winners :

**Prof. Arindam, Chowdhury**, Department of Chemistry, spoke on three Nobel Laureates, "Eric Betzig", "Stefan W. Hell", and "William E. Moerner" in the category of Chemistry.

**Prof. Pushpa L. Trivedi**, Dept. of Humanities and Social Sciences, spoke on "Jean Tirole" in the category of Economics.

**Prof. Subhabrata Dhar**, Department of Physics, spoke on "Isamu Akasaki", "Hiroshi Amano", and "Shuji Nakamura" in the category of Physics

**Prof. Rohit Manchanda**, Dept. of Biosciences & Bioengineering, spoke on "John O'Keefe", "May-Britt Moser", and "Edvard I. Moser" in the category of Physiology/Medicine

The lectures were attended by a large number of faculty members, students and staff members. Dr. V. Arumugam from the Office of the Dean (R & D) gave the vote of thanks.

### Department of Humanities and Social Sciences

**Dr. Amrita Banerjee**, Allegheny College, Pennsylvania, USA, delivered a seminar on "Rethinking Reciprocity: New Directions for Transnational Feminist Moral Philosophy" on October 1, 2014.

**Dr. Maarten L. Wijnants with Dr. Anna M.T. Bosman**, from Radboud University, Nijmegen, Netherlands, delivered a seminar on "Reading and Dyslexia: A Complex System's Approach" on October 29, 2014.

**Dr. Kaushik Bhattacharya**, Indian Institute of Management Lucknow, delivered a seminar on "Hyper-Plurality and the Need for Regulation of Candidate Entry in India" on November 12, 2014.

**Prof. P.K Mohapatra**, National Fellow of the Indian Council of Philosophical Research (ICPR), New Delhi, delivered a lecture on "Personal Identity and Bodily Continuity: A Critique of Bernard Williams on the Criteria" and "Karma, Rebirth and Personal Identity" during November 19-20, 2014.

### Interdisciplinary Programme in Climate Studies

**Prof. E. Somanathan**, Economics and Planning Unit, Indian Statistical Institute & Program Director, CECFEE, gave a presentation on "Global warming and aerosol pollution have reduced wheat yields in India" on October 1, 2014.

**Mr. Tritha Banerjee**, PhD Candidate, Nicholas School of the Environment and Earth Sciences, Duke University, North Carolina, USA gave a presentation on "Turbulence in Complex Natural Environments" on October 8, 2014.

**Prof. Dilip R. Ahuja**, School of Natural Sciences and Engineering, National Institute of Advanced Studies, Bangalore, gave a presentation on "Energy and Non-Energy Benefits from Advancing Indian Standard Time" on October 22, 2014.

**Prof. Rama Govindrajan**, Tata Institute of Fundamental Research,

Hyderabad, gave a presentation on "Fluid dynamical aspects of clouds" on October 29, 2014.

**Prof. Vinoj. V.**, School of Earth, Ocean and Climate Sciences, IIT Bhubaneswar, gave a presentation on "Atmospheric Aerosols and the Indian Monsoon Rainfall" on November 5, 2014

#### Department of Computers Science and Engineering

**Dr. Waqar Hasan**, Sr. Vice President of Data at Visa, delivered a talk on "Payments Technology at Visa: Overview and Challenges" on October 29, 2014.

#### Department of Electrical Engineering

**Dr. Ajay Kapur**, Director of the Music Technology program (MTID), California Institute of the Arts, delivered a talk on "Building a Symbiotic Human/Machine Orchestra" on October 31, 2014.

#### Industrial Design Centre

**Dr. Arun Garg**, UWM Distinguished Professor, Professor, Occupational Science & Technology, Director, Center for Ergonomics, University of Wisconsin- Milwaukee, USA, delivered a seminar on his works related to issues of "Geriatric populations in USA" on November 13, 2014.

#### Centre for Research in Nano Technology & Science

**Dr. Marcus Macht**, Application Scientist, AB SCIEX, delivered a talk on "Next Generation Proteomics & Quantitative Biology covering HRLCMS/MS (High Resolution Massspectrometry)" on October 13, 2014.

#### Centre for Technology Alternative in Rural areas

**Dr. Ashwini Chhatre**, Indian School of Business, Hyderabad delivered a seminar on "Shooting in the dark: Behavioral crowding in sustainable development interventions" on November 25, 2014.

#### SJM School of Management

**Shri Govinda Das**, Scholar of Iitahaasas, conducted a two-day

seminar on "Money-Mean Or Meaningful" between October 12 and 17, 2014.

#### Systems and Control Engineering

**Prof. Paul Kotyczka**, Institute of Automatic Control, Technical, University of Munich, delivered a talk on "Distributed-parameter port-Hamiltonian systems a short introduction to modeling, spatial discretization and control" on November 5, 10 and 12, 2014.

#### Society for Innovation and Entrepreneurship

**Mr. Rohit Bhagwat**, Co Founder & Chief Operating Officer, Activitas, delivered a talk on "New provisions in Company's Act 2013" on October 18, 2014.

**Prof. Scott Kelly**, University of North Carolina, Charlotte, delivered a talk on "Geometric Mechanics and Robotic Locomotion" on November 4, 6, 11 and 13, 2014.

#### Research Scholars Forum

**Mr. Kiran Kumar Eranki**, IDP in Educational Technology conducted a workshop on "Fundamentals of LaTeX" on October 11, 2014.

**Dr. Parmod Kumar**, reviewer for various international conferences and journals, delivered a talk on "OPEN ACCESS Publication: What, Why and How?" on November 27, 2014.

#### Awards and Distinctions

**Prof. Devang V. Khakhar**, Department of Chemical Engg., has been selected for the H K Firodia Award 2014 for Excellence in Science & Technology.

**Prof. P. Venkatachalam**, Centre for Studies in Resources Engineering (CSRE), has been elected as a Fellow of the Indian Society of Geomatics (ISG) in recognition of her outstanding contributions in the field of Geomatics.

**Prof. R.B. Sunoj**, Department of Chemistry, has been elected as a

member of the (WATOC) Board, which is the central decision-making body of the World Association of Theoretical and Computational Chemists.

He has also been awarded Chemical Research Society of India (CRSI) Bronze Medal for the year 2014. The Medal will be presented at the CRSI annual meeting to be held at NCL Pune during February 5-8, 2015.

**Prof. Bijnan Bandyopadhyay**, Systems and Control Engineering, has been appointed as the Technical Editor of IEEE/ASME Transaction on Mechatronics, for a period of three years w.e.f. September 2014, a joint publication of IEEE Industrial Electronics society, IEEE Robotics and Automation Society and ASME Dynamic Systems and Control Division.

**Prof. Kannan Iyer**, Department of Mechanical Engineering, has been selected for the prestigious "Indian Nuclear Society Outstanding Service Award" under the category of "Nuclear Reactor Technology, including Nuclear Safety" for the year 2013.

**Prof. Rajneesh Bhardwaj**, Department of Mechanical Engineering, has been selected for the INAE Young Engineer Award 2014.

**Prof. Abhijit Chatterjee**, Department of Chemical Engineering, has been selected for the INAE Young Engineer Award 2014.

**Prof. R. Murugavel**, Department of Chemistry, has been elected as a fellow of the Indian National Science Academy (INSA).

**Prof. Ramgopal Rao**, Department of Electrical Engineering, has been elected as a fellow of the Indian National Science Academy (INSA).

**Prof. S. Sudarshan**, Department of Computer Science & Engineering, has been elected as a Fellow of NASI, Allahabad for the year 2014.

**Prof. G. Haripriya**, Department of Humanities and Social Science, has been elected as the President of the

International Urban Biodiversity and Design (URBIO) network for a period of 4 years. She has taken over the charge from Prof. Norbert Muller of University of Erfurt, Germany. URBIO is an open world-wide scientific network for education and research and is formed as a result of the scientific initiative of the CBD (Convention on Biodiversity, Montreal) under the Major Group "Local Authorities". The network was founded in 2008 with headquarters in Erfurt Germany.

**Prof. K. Ramasubramanian**, Department of Humanities and Social Science, has been conferred 'Bhaskaracharya Award', by the Akhil Bharathiya Vidwat Parishad for his scholarly contributions

**Prof. S. Kotha**, Department of Chemistry, has been conferred Prof. W. U. Malik Memorial Award by Indian Council of Chemists.

**Prof. Vivek Agarwal**, Department of Electrical Engineering has been elevated by IEEE Board of Directors, as IEEE Fellow, effective from January 1, 2015, for his contributions to typologies and control schemes for solar photovoltaic energy conversion and power quality enhancement.

### Appointments

**Prof. B.K. Mohan**, Centre of Studies in Resources Engg. (CSRE), has been appointed as Head of the Centre, on October 1, 2014.

**Dr. Dilip Badgujar**, Department of Biosciences and Bioengineering has been appointed as post Doctoral Fellow on October 1, 2014.

**Dr. Rohit Srivastava**, Department of Metallurgical Engg. & Materials Science has been appointed as Post Doctoral Fellow on October 7, 2014.

**Dr. Seethamraju Srinivas**, Department of Energy Science & Engg., has been appointed as Assistant Professor on October 8, 2014.

**Dr. Nabanita Saikia**, Department of Physics, has been appointed as Post Doctoral Fellow on October 30, 2014.

**Dr. Aparana Singh**, Department of Metallurgical Engineering & Materials Science has been appointed as Assistant Professor on November 10, 2014.

**Dr. Gulab Singh**, Centre of Studies in Resource Engineering, has been appointed as Assistant Professor on November 13, 2014.

**Dr. Sowmya S.** Department of Civil Engineering, has been appointed as Post Doctoral Fellow on November 20, 2014.

**Dr. Md. A. Zinna**, Department of Mathematics, has been appointed as Post Doctoral Fellow on November 25, 2014

### Retirements on October 31, 2014

**Prof. Ranjan K. Malik**, Professor, Dept. of Chemical Engg., retired after 29 years of service.

**Prof. Vishnu Dutt Sharma**, Professor, Dept. of Mathematics, retired after 27 years of service.

**Shri Arun K. Roy**, Superintendent, Materials Management Division, retired after 37 years of service.

**Shri Suresh Dorairaj**, Superintendent, Gymkhana, retired after 35 years of service.

### Retirements on November 30, 2014

**Prof. P. Venkatachalam**, Professor, Centre for Studies in Resources Engineering, retired after 36 years of service.

**Prof. A.Q. Contractor**, Professor, Department of Chemistry, retired after 31 years of service.

**Shri B.R. Nagarkar**, Superintendent, Hostels, retired after 35 years of service.

**Ms. Yesoda Unnikrishnan, Jr.** Superintendent, Administration, retired after 32 years of Service.

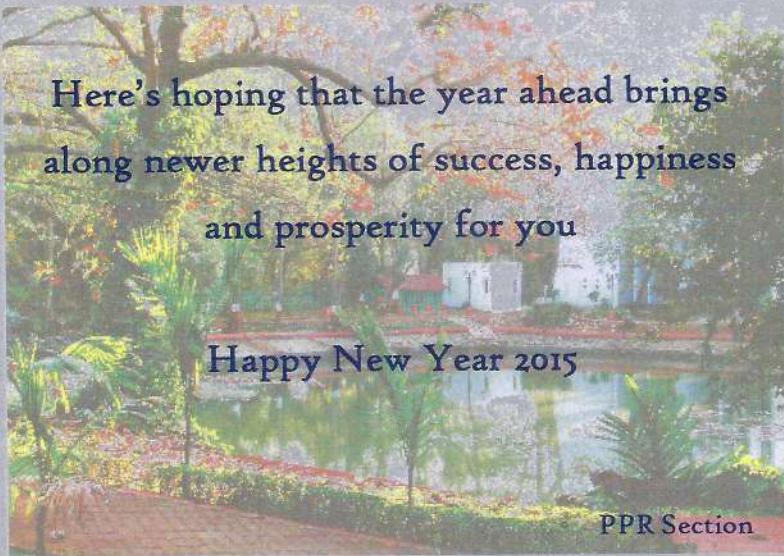
**Shri Ranganath S. Kedare**, Mech. Asstt., Department of Electrical Engineering, retired after 41 years of service.

**Shri Arun Dewba Torane**, Mech. Asstt., Department of Mechanical Engineering, retired after 39 years of service.

**Shri Suhas W. Tarkar**, Attdt. (SG), Centre for Studies in Resources Engineering, retired after 37 years of service



New Year Wishes



Sait'n Pepper

by Dr. Arun Inamdar

...and he is equally renowned for his love for the Environment !



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BOOK POST