

# Campus diary

March - April 2016

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INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

## 57<sup>th</sup> Foundation Day Celebrations



Chief Guest Prof. Sandip Trivedi, Director, TIFR, Dr. Anil Kakodkar, Former Chairman, BOG, IITB and Former Secretary of Department of Atomic Energy, Prof. S.P. Sukhatme, Former Director, IITB and Former Chairman, AERB, Prof. Devang V. Khakhar, Director, IITB, Prof. Ravi Sinha, Dean (ACR) and Prof. P.V. Balaji, Dean (R&D) with the awardees on the Foundation Day

The Institute celebrated its 57<sup>th</sup> Foundation Day on March 10, 2016. The foundation stone for the internationally recognized Institute was laid by Pandit Jawaharlal Nehru, then Prime Minister of India on March 10, 1959. IIT Bombay was the second IIT to be established in the country and the first one to be established with a foreign aid received from UNESCO. Since then, the Institute has grown from strength to strength and is now counted amongst the best engineering institutions across the globe.

On the occasion, Prof. Devang Khakhar, Director, IITB spoke at length about the achievements of the Institute. *“Over the years, the Institute has become more focused towards research activities. I am pleased to inform that we have licensed 9 technologies last year and the number of publications and patents have also increased. We are*

*collaborating with industry and working closely with them in areas of mutual benefit and interest.”*

As part of the Foundation Day celebrations this year, the Institute felicitated Dr. Anil Kakodkar, Former Chairman, Board of Governors (BoG), IIT Bombay and Former Secretary, Department of Atomic Energy, Government of India for his leadership and vision during his stint with the Institute.

After receiving the recognition, Dr. Kakodkar said, *“I have been fortunate to be associated with IIT Bombay for 15 years. IITB is definitely the best Institute of higher education and the reason is great teaching, strong linkages with alumni and open-mindedness. The way forward for the Institute is to commercialize its research and try to work on research that will benefit the society at large.”*

Like every year, the Institute felicitated its select alumni for their achievements in diverse fields ranging from academics, research and entrepreneurship. Prof. Sandip Trivedi, Director of Tata Institute of Fundamental Research (TIFR) was the Chief Guest for the function and gave away the **Distinguished Alumnus Awards, Young Alumni Achiever Awards, the 'Prof. S.C. Bhattacharya Award for Excellence in Research in Pure Sciences' and 'Prof. H.H. Mathur Award for Excellence in Research in Applied Sciences'**.

Speaking on the occasion, he said, "IIT Bombay is a great Institute. The fact that 47 out of 50 JEE toppers opt for IIT Bombay speaks greatly about the leadership of Prof. D. V. Khakhar and Dr. Anil Kakodkar. I believe that doing science in India is

*amazing, its better than any part of the world. The opportunities in this field are immense in India. Therefore, I strongly feel that students should be encouraged and told about these opportunities and who better than IITs to do that. Lets make our students believe and hope that science is the way forward just like our first Prime Minister Pt. Jawaharlal Nehru did."*

The Foundation Day celebrations also witnessed the formal naming of the main auditorium Victor Menezes Convention Centre (VMCC) as **Prof. B. Nag Auditorium** after Prof. Biswajit Nag, Former Director (1984-94), IITB. The naming was done in the presence of Prof. S.P. Sukhatme, Former Director, IITB and Former Chairman AERB and Mrs. Nag. All in all, the event was a great success with participation from students, alumni and faculty.

### **Distinguished Alumnus Awards**



**Dr. Cyrus Mehta** (Civil Engineering, B.Tech., 1967), President and Co-founder of Cytel Inc., and Adjunct Professor of Biostatistics at Harvard University.

*Take your time, dive deeply into your projects, and understand the fundamentals thoroughly. Don't be satisfied with a superficial surface understanding. You can only love something if you know it well. And then you will find the original ideas come to you for taking the next steps.*



**Dr. Krishna Chivukula** (Mechanical Engineering, B.Tech., 1968), Owner and Chairman of Board of Directors of INDO US MIM TEC Private Limited, Shiva Analyticals (India) Private Ltd, Bangalore; Shiva Analyticals Private Ltd. Tanzania; and Advanced Analytical Testing Laboratories, Inc, Brunswick, New Jersey, USA

*Love and active life, full of accomplishment, kindness and contribution to humanity*



**Mr. Mohan Kavrie** (Civil Engineering, B.Tech., 1971), Founder, Supreme Nonwovens Pvt. Ltd.

*Give people the freedom to work and allow them to make honest mistakes*



Prof. Abhay Karandikar, Department of Electrical Engg, receiving the award on behalf of **Dr. Hemant Kanakia** (Electrical Engineering, B.Tech., 1975), General Partner, Columbia Capital & Founder, Torrent Networking Technology.

*Cliched to say that but it is true in my case: Work Hard and Take Calculated Risks.*



*Work hard without expectation of any personal gain and show love to others*

**Prof. Shantikumar Nair**, (Metallurgical Engineering & Materials Science, B.Tech., 1976), Dean of Research, Amrita Vishwa Vidyapeeth and Director, Amrita Centre for Nanosciences and Molecular Medicine



*I don't know about success, but creativity requires: Freedom, Passion, Hard Work laced with humor and the company of very creative people*

**Prof. Madan Rao** (Department of Physics, M.Sc., 1982), Senior Professor, National Centre for Biological Sciences (NCBS), Bangalore



*Work hard, be consistent and success will follow. Nothing is impossible – some things are only more difficult than others.*

**Dr. Girish Deodhare** (Control and Instrumentation, M.Tech., 1986), Associate Programme Director, Aeronautical Development Agency, Bangalore



*In the epic Mahabharata, Lord Krishna, offers the following advice to Arjuna: "Do your duty without regard to its fruits. Add to that a passion for what you do and having fun at what you do, you have a good recipe for life".*

Prof. Avinash Mahajan Department of Physics, receiving the award on behalf of **Dr. Rangarajan Pitchumani** (Mechanical Engineering, B.Tech., 1986), George R. Goodson Professor of Mechanical Engineering, Virginia Tech. USA



*Focus, patience and perseverance*

Mr. Samson Charikar (father), receiving the award on behalf of **Prof. Moses Charikar** (Computer Science and Engineering), B.Tech, 1995,) Professor, Computer Science, Stanford University

## Young Alumni Achiever Awards



*Perseverance, hard work and focus.*

**Dr. Dhananjay Gore**, (Electrical Engineering), B.Tech., 1998, Senior Director Engineering, Qualcomm Research India.



*In what may seem like abject failures are often hidden the greatest opportunities for success – stay positive and search for them"*

**Prof. Nisheeth Vishnoi**, (Computer Science and Engineering, B.Tech., 1999), Associate Professor, School of Computer and Communication Sciences, Ecole Polytechnique Federale de Lausanne (EPFL)



**Prof. S.C. Bhattacharya Award  
for Excellence in Research  
in Pure Sciences**



**Prof. C.P. Rao**, Department of Chemistry

**Prof. H.H. Mathur Award for Excellence  
in Research in Applied Sciences**



**Prof. Indradev Samajdar**, Department of Metallurgical Engineering & Materials Science



**Dilip Shanghvi becomes the new Chairman of IIT Bombay**

**Mr. Dilip Shanghvi**, Managing Director, Sun Pharmaceutical Industries Ltd., Mumbai has been appointed as the Chairman, Board of Governors of IIT Bombay w.e.f. April 4, 2016, for a period of three years.

The appointment is made by the President of India, in his capacity as the Visitor of the Institute.

**Social Initiative for Holi by IIT Bombay's Techfest Team**

IIT Bombay's non-profit organisation Techfest, in an effort to give back to the society, visited children in Aditya Birla Centre for the Welfare of Children in Chembur and the Vatsalya Trust near Powai this year to celebrate dry Holi and spread the colour of happiness.

The team also visited children living in the slums near the IIT

Bombay campus. Students celebrated dry Holi, using only eco-friendly colours ensuring that there is no wastage of water. Children were also motivated to study and presented with gifts by the team members.

This is not the first time that Techfest has come up with such an initiative. In the past Techfest has been associated with

initiatives like Internet For All campaign (aimed at spreading awareness about uses of internet among the villages of Maharashtra, Gujarat and Rajasthan), Manifest (aimed at bringing about transparency in governance thereby reducing corruption) and Recycle (to promote the importance of health and hygiene among the people).

## Tata Motors – IIT Bombay signs MoU

Professor Devang V. Khakhar, Director, IITB and Mr. Gajendra Chandel, Chief Human Resource Officer, Tata Motors Ltd. signed a five year MoU on March 9, 2016 with an objective to meet the engineering needs of the automotive industry of the future. Under this MoU, joint R&D projects will also be undertaken for development of new technologies in various engineering domains.

Professor Devang V Khakhar, Director, IITB said, *“We are excited to partner with Tata Motors in various modes of collaboration. The partnership will enable joint basic research in specific areas which will feed into the future products of Tata Motors as well as advanced training of Tata Motors personnel. The faculty and students will greatly benefit by exposure to current industry practices and be able to create the road map for the future growth of the industry. We look forward to advancing knowledge as well as industry practice through the collaboration.”*

Mr. Gajendra Chandel, Chief Human Resources Officer, Tata Motors said, *“With the rapidly changing business landscape, it is imperative for us to foresee and plan a world-class, competent, talented and innovative workforce to retain our competitive edge. By working with an esteemed Institution like IITB, we endeavor to continuously develop engineering skills not only within the company but also that of our academic partners. This partnership is a step in this direction, where we intend bridging the academic excellence with the business know-how from the industry. We are*



Prof. Devang V. Khakhar, Director, IITB and Mr. Gajendra Chandel, Chief Human Resource Officer, Tata Motors Ltd during the signing of MoU

*looking forward to pushing the boundaries of collaboration to develop industry-ready resources. This also supports the government’s “Make In India program” preparing the Indian industry to compete at a global platform”.*

The MoU between the Institute and India’s largest commercial vehicle manufacturer aims at creating a technological partnership in areas of mutual benefit and interest. Series of interventions have been identified to cater to a future-ready organization.

## IIT Bombay Staff Handbook released

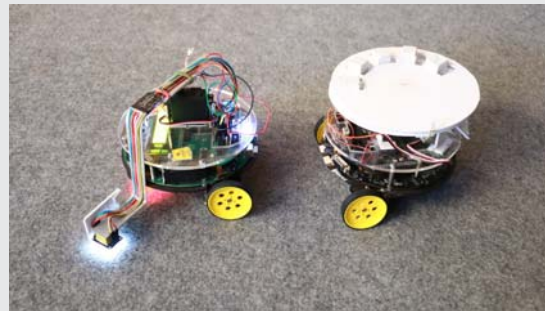
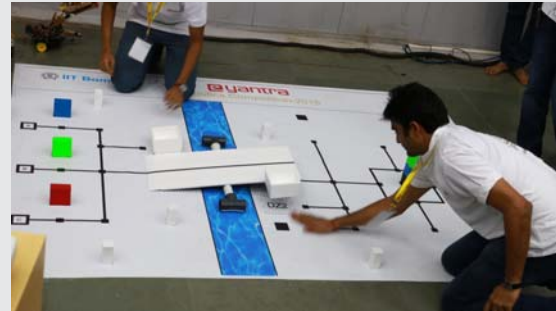


Prof. Devang V. Khakhar, Director, IITB, releasing the Staff Handbook in presence of Institute functionaries of the Institute

The staff handbook was formally released on April 15, 2016 by Prof. Devang V. Khakhar, Director, IIT Bombay in the presence of Prof. P.M. Mujumdar, Deputy Director, (Finance and External Affairs), Prof. Y.M. Desai, Dean (Administrative Affairs), Dr. R. Premkumar, Registrar, Prof. G.V. Sreekumar (IDC), IIT Bombay and other officers of the Institute. The staff handbook incorporates all the required information that will be useful as a day-to-day reference for staff members. The institute has already published a Faculty handbook.

The Staff Handbook is also available online at <http://www.iitb.ac.in/sites/default/files/Staff%20handbook%20.pdf>

## e-Yantra Robotics Competition and Symposium



e-yantra Robotics Competition and Symposium

The finals of the IIT Bombay's e-Yantra Robotics Competition was held during March 18-19, 2016 on campus. The theme of the competition this year was "**Smart Services**". 44 teams from various institutions across India battled it out for summer internship at IIT Bombay.

### **Themes of the competition and the winners :**

**1. Courier Service:** A raspberry-pi based robot picks up packages from courier companies and delivers them to their destinations. Walchand College of Engineering, Sangli, Maharashtra won under this theme.

**2. Hotel Guest Service:** The robot detects service requests and delivers the services to the rooms in the order of priority. J.K. Institute of Applied Physics and Technology, Allahabad, Uttar Pradesh won in this category.

**3. Gas Leakage Detection:** Gas leaks are detected by the robot and controlled by shutting

different control valves. University School of Information And Communication Technology, Delhi and JSS Academy of Technical Education, Uttar Pradesh were the joint winners in this category.

**4. Puzzle Solver using Gripper:** Robot solves the mathematical puzzle by picking up numbers from one section and dropping them in another section to complete a sum. J.K. Institute of Applied Physics and Technology, Allahabad, Uttar Pradesh won the competition under this theme.

**5. Puzzle Solver using GLCD:** Robot solves the mathematical puzzle by picking and placing numbers using GLCD as indicator to complete a sum. Acharyya Prafulla Chandra Ray Polytechnic, West Bengal were declared the winners.

**6. Search & Rescue:** Two robots collaborate to search and rescue the survivors and drop the medical kits. Thakur College of Engineering and Technology, Mumbai, Maharashtra won under this theme.

### **7. Hazardous Waste Disposal:**

The robot collects and sorts the hazardous waste and takes it to a dumping site across a river crossing the bridge. National Institute of Technology Meghalaya was declared the winner.

### **8. Recyclable Waste Management:**

One robot avoids the obstacles and collects the recyclable waste from collection points and dumps it onto a collector robot. Maharaja Agrasen College, New Delhi won under this theme.

**9. Pizza Delivery Service:** Robot takes orders and delivers appropriate pizza to the houses in a timely manner. Sir MV Institute of Technology, Karnataka won under this theme.

### **The e-Yantra Symposium 2016**

The e-Yantra Symposium was held on March 11-12, 2016. As part of the symposium, an e-Yantra Ideas Competition (eYIC-2016) was held. All the colleges with robotic labs were given an opportunity to



were given an opportunity to propose innovative project ideas. The selection of the proposals from idea to demonstration stage was done in two stages. Out of 181 project proposals received, 44 were selected for stage 2. These 44 teams, each having 3-4 students mentored by a teacher, implemented their idea and submitted video demonstration and code. 11 projects are shortlisted which will be showcased in the e-Yantra Exhibition to be held during the symposium. These projects were evaluated by a panel of judges comprising IIT Bombay faculty and awarded certificates and prizes.

Prof. Shobha Bagai, Associate Professor of Cluster Innovation Centre, University of Delhi said,

*"The eLSI has inculcated in students a sense of creativity. The lab at CIC is completely managed by students. This encourages a team spirit amongst the students. The activities are so designed in the robotics lab that the students are more socially aware of the usage of technology."*

Sharing the same sentiment, Dr. D.V. Kodavade, Professor and Head, Computer Science & Engineering Department of D.K.T.E. Society's Textile & Engineering Institute, Ichalkaranji, (Maharashtra) said, *"The e-yantra laboratories are benefiting students from all departments of 14 engineering colleges associated with this nodal centre. This year, students have developed projects like cell phone-based fire fighting robot,*

*staircase climbing spider, automatic grass cutter for lawn, accelerometer-based robotic arm etc"*.

**Conclusion :** Both the events were a grand success. It is important to note here that the e-Yantra project is sponsored by the Ministry of Human Resource Development (MHRD), under the National Mission for Education through ICT (NMEICT) to provide hands-on learning infrastructure to students who have limited access to labs and mentors. e-Yantra provides training and hands-on experience to teachers to run the robotic labs, advice and support for setting up the labs, provides a platform for colleges to share best practices and student projects through the e-Yantra Symposium and provides learning resources to these colleges.

## International Women's Day Celebrations



Prof. Devang V. Khakhar, Director, IITB during the Women's Day celebration at the Institute



More than 400 students, staff and faculty members celebrated International Women's Day on 9th of March, 2016 in IIT Bombay. The program was a combination of informative session by distinguished speakers and cultural program by the students. As part of the informative sessions, a lecture by Ms. Snehal Velkar, Akshara Center on "Challenges in making public transport safe for women" was organised. The other session was by IIT Bombay Alumnus and founder of the company 'Flyrobe' Ms. Shreya Mishra, who spoke about her journey as a woman entrepreneur in today's startup ecosystem - stressing that being a woman was always an asset in her journey.

Prof. Devang V. Khakhar, Director, IIT Bombay was the chief guest for the evening. In his message, he emphasized that though number of women students, faculty and staff in IIT Bombay have increased over the years, there is still room for improvement. Following this, he unveiled Women's Cell Logo designed by IDC student Varun Mewada, which was selected by a pan-campus competition. The students performed a themed Bharatanatyam performance and an amazing Bollywood dance along with several music performances. To salute the work of women staff in campus, several staff members were presented with a token of appreciation by the chief guest on behalf of Women's Cell. The event ended with a mesmerising song performance 'Let it Go' by a student.

### Talk-cum-Interactive Session on 'Make in India'

Team Samwad - A student social discussion club of the institute organized a talk-cum-interactive session on 'Make in India' with IIT Bombay. The main speakers for this event were Dr. B Ravi Kumar, an Institute Chair Professor from the Department of Mechanical Engineering, Prof. Anil Kumar from the Department of

Chemistry and Prof. Jayesh Bellare from the Department of Chemical Engineering. The three professors are working in different sectors under this campaign of 'Make in India'.

Make in India is an initiative launched by the Government of India on September 25, 2014 to encourage multi-national as well

as national companies to manufacture their products in India. Under this campaign, there are various innovations and research going on inside IIT Bombay for the benefit of common people such as medical equipments, handheld explosive sensors, smart cities and buildings to name a few.

### Institute Colloquium / Lectures



**Ms. Santosh Yadav**, Everest Foundation delivered the Second Annual Radhika Rajan Leadership Lecture titled "Motivation, Team Building, Leadership and Risk Management – An Everest Conqueror's Story" on March 2, 2016.



**Justice B. N. Srikrishna**, Retired Judge, Supreme Court of India delivered the Inaugural Lecture of the Institute Lecture Series on "The Indian Constitution" on March 12, 2016.



**Prof. D.D. Sarma**, Solid State Structural Chemistry Unit, Indian Institute of Science, Bangalore. delivered the Professor C.N.R. Rao Lecture Series on Nanoscience and Nanotechnology titled "Brighter side of semiconductor nanocrystals: How to make defects useful" on April 22, 2016.





**Mr. Bill McDermott**, Chief Executive Officer and a member of the Executive Board of SAP SE had an interactive session with students titled “*A Journey from Corner Store to Corner Office*” on March 17, 2016.



**Mr. Aspi Chinoy**, Advocate and Senior Counsel of Bombay High Court and the Supreme Court of India, delivered the Second Lecture of the “Institute Lecture Series on the Indian Constitution” titled ‘*The Nature, Import and Effect of a Constitution*’ on April 2, 2016.



**Dr. Pradip P**, Vice President, Chief Scientist and Head of the Process Engineering Lab, Tata Research Development and Design Centre, Pune delivered an Institute Distinguished Lecture in Department of Chemical Engineering (in memory of Professor K.C. Khilar) titled “*Challenges Facing the Global Minerals and Metals Processing Industry and Opportunities for the Chemical Engineers to Drive Innovation*” on April 12, 2016.



**Prof. Rana Adhikari**, California Institute of Technology, United States delivered an Institute Colloquium titled “*Discovery of gravity waves by the LIGO experiment: Dawn of a new era in experimental physics*” on April 13, 2016

## Departmental Lectures

### Department of Humanities and Social Sciences

**Prof. Kenneth Liberman**, University of Oregon, Eugene, USA gave a talk in a seminar titled “*What Can the Human Sciences Contribute to Phenomenology?*” and “*The Reversibility of Landscapes*” on March 8 and 9, 2016 respectively.

**Dr. Mamta Tripathi**, IIM Calcutta, Kolkata gave a talk in a seminar titled “*The role of counter factual thinking in group decision making*” on March 30, 2016.

**Dr. Anindita Majumdar**, Manipal University, Manipal gave a talk titled “*Conflicted kinship in a transnational world: Commercial gestational surrogacy in India*” on April 12, 2016.

**Prof. Adam Habib**, Vice Chancellor and Principal, University of Witwatersrand, South Africa gave a talk in a seminar titled “*State of the Nation*” on April 22, 2016

### Department of Civil Engg

**Prof. B. S. Mazumder**, Retired Senior Professor, Indian Statistical Institute of Kolkata delivered a CEA lecture titled “*Experimental and Theoretical studies on flow and sediment entertainment over rough bed using image processing techniques*” on March 18, 2016

### Department of Computer Science and Engineering

**Prof. Nisheeth Vishnoi**, EPFL Lausanne gave a talk on the topic titled “*Evolution and Computation*” on March 9, 2016.

**Prof. Eduard Hovy**, Carnegie Mellon University spoke on the

topic titled “*Machine Learning Methods In Support Of Reading Text Semantics*” on March 17, 2016.

**Prof. Kolin Paul**, IIT Delhi gave a talk titled “*Affordable Technology Solutions for the Visually Challenged*” on March 17, 2016.

**Mr. Anand Bhagwat**, Managing Director, New York, JPMorgan Chase & Co, **Mr. Nilesh Pathak**, Executive Director, Mumbai, JPMorgan Chase & Co, and **Mr. Devendra Bisht**, Vice President, Mumbai, JPMorgan Chase & Co gave a talk on the topic titled “*Regulatory Technology at JPMorgan*” on March 17, 2016.

**Dr. Arvind Krishna**, SVP & Director of IBM Research gave a talk titled “*IBM Research Global Innovation*” on March 18, 2016.

**Dr. Mayur Datar**, Principal Data Scientist with Flipkart gave a talk titled “*Machine Learning Challenges in E-Commerce*” on April 11, 2016.

**Dr. Chaman Lal**, Former Chairperson, Centre for Indian Languages, Jawaharlal Nehru University gave a talk titled “*Bhagat Singh: Why should we remember him today?*” on April 11, 2016.

### Centre for Technology alternative in Rural areas (CTARA)

**Ms. Seema Kulkarni**, the founding member of Society for Promoting Participative Eco-System Management, Pune spoke in a seminar titled “*Privatizing the public - Critical examination of Canal Irrigation in Maharashtra from an equity perspective*” on March 10, 2016.

**Mr. Haresh Shah**, Founder, Chairman of Confederation for Promotion of KHADI and Village

Industries spoke in a seminar titled “*Harvesting the Huge hitherto untapped Employment and Entrepreneurship opportunities in the Decentralized Sector*” on March 31, 2016.

### Centre for Urban Science & Engineering (C-USE)

**Dr. Pradip P. Kalbar**, Technical University of Denmark gave a lecture on the topic of “*Environmental Sustainability of Urban Residents and Buildings: Life Cycle Assessment Approach*” on March 22, 2016.

### Center of Studies in Resource Engineering (CSRE)

**Dr. Prakash Chauhan**, Senior Scientist, Space Applications Centre, ISRO gave a seminar talk “*Why study Mars and related Major Scientific Challenges?*” on March 29, 2016. The seminar was organized by The Indian Society of Remote Sensing (ISRS) Mumbai Chapter

### SJM School of Management

**Mr. Shri Anuj Dhar**, author of four books, spoke on “*Netaji Subhash Chandra Bose, an unsolved mystery*” on March 9, 2016.

### Climate Studies

**Prof. Jagdish Krishnaswamy**, Convener and Senior Fellow and **Mr. Suri Sehgal**, Centre for Biodiversity and Conservation, ATREE gave a talk in a seminar titled “*Ecosystem Responses to Global Change: Insights from the Indian Experience*” on March 9, 2016

Research in Focus

New, affordable, portable kits for diabetic patients



SuChek



uChek

There is an increasing demand for accurate, efficient and cost-effective treatment methods and devices in critical care units. The main goal behind the research in Nanobios Lab at IIT Bombay relates to the development of biosensor assays and their integration into affordable Point-of-care diagnostic devices. Prof. Rohit Srivastava from the Department of Biosciences and Bioengineering has developed two innovative portable diagnostic systems to measure blood sugar and other components - uChek and SuChek.

uChek (<http://uchek.in>) - a low cost smartphone based urine dipstick reader which was designed, tested and deployed. uChek can interpret upto ten analytes in urine including glucose, bilirubin , ketones, proteins, urobilinogen, pH, SG, occult blood, leukocytes and nitrites. The accuracy of uChek was found to be comparable to commercially available semi-automated urinalysis instruments in laboratories with 100% of readings within +/- 1 color block. Nanobios lab in collaboration with Biosense Technologies Pvt Ltd have commercialized this product.

Nanobios lab in collaboration with Biosense Technologies Pvt Ltd have also manufactured and commercialized SuChek. SuChek is an indigenous, accurate, low-cost glucometer supported by the Indian Council of Medical Research. SuChek reagent strips are as accurate as conventional glucometers, at a fraction of the price. Along with the glucometer, the companion Suchek mobile application helps save, trend and analyze blood glucose levels at an individual level or track response to treatment at a community level. The reader and strips are currently under clinical trials at various hospitals in India.

Prof. Srivastava was awarded the Vasvik Award 2013 for scientific and industrial research, and the Product and Process Development and Commercialization Award given by the Department of Biotechnology, Government of India for his work on both the products.



## Awards and Distinctions

**Prof. J.K.Verma**, Department of Mathematics has been appointed as a Member on the Editorial Board of Indian Journal of Pure and Applied Mathematics (IJPAM) by INSA.

**Prof. Sourav Pal**, Department of Chemistry and President of Chemical Research Society of India, has been nominated to be a member of the Executive Council of the Federation of Asian Chemical Societies.

**Prof G K Adil, Prof A Patwardhan, Prof Vinish Kathuriad. Prof I Mukherjee, and Prof T T Niranjan** of SJM School of Management have been recognized among top 5% researchers in the management field in the country by an article published in a prestigious management journal.

**Prof. G. Rajaraman**, Department of Chemistry has been selected to receive the prestigious *AV Rama Rao Young Scientist Award* for the year 2015 in recognition of his excellence research contributions.

**Prof. I K Rana**, Department of Mathematics has been elected for the post of the President for 'The Association of Mathematics Teachers of India (AMTI)' for a period of two years from April 1 2016.

**Prof. D. Ramakrishnan**, Department of Earth Science has been chosen as the National Coordinator for leading and implementing the national programme on "Networked Projects on Hyperspectral Remote Sensing and Applications".

**Prof. Atanu Ghosh**, SJM School of Management, was invited to join the Board of Governors of Indian Education Society's Institute of Management College and Research Centre, Bandra and Institute of Apparel Management, Gurgaon.

## Publications

**Prof. Sudha Shastri**, Department of Humanities and Social Sciences edited: 'Disnarration: The Unsaid Matters', Orient Blackswan Publishers, 2016. "And those who were seen dancing were thought to be insane by those who could not hear the music." Friedrich Nietzsche

**Dr. Azizuddin Khan**, Department of Humanities and Social Sciences and

Pereirs, D., (2016) 'Hemispheric Specialization of Impaired Disengagement of Attention in Depression: A Tachistoscopic Method. Laterality: Asymmetries of Body, Brain and Cognition', Vol. 21(2): pp. 1-16

**Dr. Azizuddin Khan**, Department of Humanities and Social Sciences and Pereirs, D., (2016). 'Disengaging attention from affective stimuli: Evidence for valence-dependent lateralization in emotion regulation' in Indian Journal of Applied Psychology', Vol. 42, No. 1, pp. 154-160.

**Prof. Urjit A. Yajnik**, Department of Physics, edited : "Proceedings of UNICOS-2014, International Workshop on Unification and Cosmology after Higgs Discovery and BICEP2" edited by Charanjit Singh Aulakh, Kuldeep Kumar and Urjit Yajnik, Pramana Vol. 86, No. 2, appeared in print March 2016.

## Invited Lectures / Visits

**Prof. Shripad P. Mahulikar**, Department of Aerospace Engineering, delivered a keynote lecture titled "Surface Radiation Exchange in Micro-heat Exchanger: Benign or Parasitic?" at the 9th International Conference on Thermal Engineering. The conference was jointly organized by the Ryerson University Canada & Alhosn University U.A.E. at the Grand Millennium Al Wahda, Abu Dhabi, U.A.E during March 24-26, 2016.

**Prof. Azizuddin Khan**, Department of Humanities and Social Sciences, delivered a lecture on "Visual processing deficit in Hindi-speaking dyslexic children: An event related potential (ERP) study. 6th LA School for Education, Cognitive and Neural Sciences", from March 7 – 18, 2016 at Buenos Aires, Argentina. Prof. Khan also delivered a lecture on "Detection of changes in the expression of emotion in Alzheimer patients" at 7th International Conference on Drug Discovery and Therapy during, February 15 - 18, 2016 at the University of Sharjah, Sharjah, UAE.

**Prof. Atanu Ghosh**, SJM School of Management delivered talks on "Need for Disruptive Innovation for Emerging Economies" at the KIIT School of Management, and Xavier Institute of Management, Bhubaneswar on February 27, 2016. In addition, he

delivered talks at the Department of Jute and Fibre Technology, University of Calcutta on March 2, 2016 and at the Department of Management Studies in IIT Delhi on March 8. He also delivered talks at the Indian Institute of Foreign Trade, Kolkata National Institute of Fashion Technology in March 2016,

**Prof. Atanu Ghosh**, SJM School of Management was the Chief Guest for the Convocation ceremony of the MMS and MFSM students of Alkesh Dinesh Mody Institute of Management, University of Mumbai which was held at the Kalina Campus of University of Mumbai.

**Prof. A.K. Dikshit**, Centre for Environmental Science and Engineering delivered invited talk on "Bioremediation of Distillery Wastewater" at GIAN Workshop on "Bioremediation Technology of Hazardous Waste Management" organized by Central University of Gujarat, Gandhinagar on March 18, 2016. Also attended Advisory Committee meeting for Centre for Climate Change.

## Seminars / Conference / Workshops

**Psychophysiology Laboratory, Department of Humanities and Social Sciences**, IIT Bombay in collaboration with Foundation for Police Research, New Delhi organized a National Seminar on *Information, Communication and Technology (ICT) and 21st Century Policing: Challenges and Potentialities* on February 27, 2016.

**Prof. Urjit A. Yajnik**, Department of Physics presented a popular lecture "Windows into deep space: from telescopes to gravitational wave detection" at the Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat on April 1, 2016. He also attended a conference "The First Workshop on Beyond Standard Model Physics" at Indian Institute of Science Education and Research (IISER), Mohali during April 6-9, 2016. During his visit, he also delivered a seminar talk titled "Little hierarchy and excited leptons" on April 8, 2016.

**Prof. Atanu Ghosh**, SJM School of Management delivered a talk and chaired a session during the International Conference “*Developments in Business Technology and Management*” held during April 1-2 2016 at the Institute of Science and Technology (ITS), Ghaziabad. He also delivered a lecture on “*Technology Strategy in Textile Organizations*” at an workshop on *Leadership & Entrepreneurial skill* organized by the Department of Textile Technology, IIT Delhi, under the aegis of the MOU signed between IIT Delhi and Ethiopian Textile Industry Research Institute (ETIDI) on March 8, 2016.

### Blood Donation Camp

The Sthaniya Lokadhikar Samiti of IIT Bombay in association with KEM Hospital’s Blood Bank organized a Blood Donation Camp on April 9, 2016 in the Institute. The drive witnessed blood donation from around 381 people including faculty members, student and staff community of the Institute. The event was a grand success due to the dedicated efforts by Dr. Ingole and his team from KEM Blood Bank, along with IIT B volunteers and Institute authorities.

### Appointments

**Mrs. Falguni B. Naha**, has been appointed as Public Relations Officer in Publications & Public Relations section on March 7, 2016



**Dr. Eshita Mazumdar**, Department of Mathematics, has been appointed as Post - Doctoral Fellow on March 10, 2016.



**Dr. Mohd Ishtikhar**, Department of Chemistry, has been appointed as Post-Doctoral Fellow on March 11, 2016.



### Retirements on March 31, 2016

**Ms. Supriya S Khaniwadekar**, Jr. Supdt, Centre for Environment Science & Engineering retired after 28 years of service.



**Shri Mahadev Sidram Kharat**, Watchman (SG), Security Section retired after 35 years of service.



**Shri Milind M.Vaidya**, Sr. Attdt, Electrical Maintenance retired after 32 years of service.



**Shri Magan M Solanki**, Sr.Helper, Electrical Maintenance, retired after 36 years of service.



### Retirements on April 30, 2016

**Prof. J.N. Mandal**, Department of Civil Engineering, retired after 32 years of service.



**Shri Baburao R. Kharat**, Assistant Security Officer, Security Section retired after 17 years of service.



**Shri Rajaram G.Gore**, Messenger, Administration, retired after 26 years of service.



**Shri Yadav C. Bhamble**, Watchman (SG), Security Section, retired after 38 years of service.



### Obituary

**Prof. K. Ramachandran** Emeritus Professor, left for his heavenly abode on March 17, 2016 after a brief illness. He had greatly contributed to the design community as a design faculty, a design practitioner and a great mentor. Our heartfelt condolences are with his family. May his soul rest in peace.

**Prof. A. Parthasarathy**, Emeritus Professor and founder member of the Department of Earth Sciences left for his heavenly abode on March 30, 2016 at his residence in Navi Mumbai. He was 91 years old. Our heartfelt condolences are with his family. May his soul rest in peace.

**Prof. A. N. Chandorkar** left for his heavenly abode on March 31, 2016. Prof. Chandorkar was one of the early faculty members of the Department of Electrical Engineering and made many significant contributions to the department. He also served in many administrative capacities of the Institute. Our heartfelt condolences are with his family. May his soul rest in peace.

**CEP courses scheduled during May and June 2016**

No.	Course Title	Course Coordinator / Department	Duration
1.	The Role of Technology in Crime and Crime Prevention	Prof. Abhay Karandikar Dept of Electrical Engineering	May 2 -6, 2016 (5 days)
2	Fundamentals and Application of Six Sigma Methodology and Lean Management	Prof. Indrajit Mukherjee, School of Management	May 5 - 7, 2016 (3 days)
3	Photobiology : Concepts and Applications	Prof. A.K. Singh Department of Chemistry	May 9 - 15, 2016 (7 days)
4	Safety Analysis and Life Estimation of Machines	Prof. S.K. Maiti Mechanical Engineering	May 11 - 15, 2016 (5 days)
5	Certificate Course on Piping Engineering	Prof. Moharir Arun Sadashiv Department of Chemical Engineering	May 11 - 21, 2016 (11 days)
6	Technology-Driven Innovation and Entrepreneurship	Prof. Krish Sankaran Department of Electrical Engineering	May 11 - 13, 2016 (3 days)
7	GIS for Civil Engineers	Prof. Raaj Ramsankaran Department of Civil Engineering	May 23 - 27, 2016 (5 days)
8	Impacts Of Climate Change, Urbanization and Land-Use-Land-Cover Change on Water Resources	Prof. Subhankar Karmakar Centre for Environmental Science & Engineering & Prof. Subimal Ghosh Department of Civil Engineering	May 30 – June 3, 2016 (5 days)
9	Biology for Engineers	Prof. Ambarish Kunwar Department of Biosciences and Bioengineering	June 6 - 11, 2016 (6 days)
10	Constitutive Modelling in Practical Geotechnical Analysis	Prof. Ashish Juneja Department of Civil Engineering	June 6 - 16, 2016 (11 days)
11	Monsoon Course on HCI	Prof. Anirudha Joshi, Department of Industrial Design Centre	June 8 to 22, 2016 (15 days)
12	MEMS Resonators: Fundamentals and Applications	Prof. Prasanna S. Gandhi Department of Mechanical Engineering	June 27 - July 3, 2016 (7 days)

