

Campus diary

June - July - August 2015

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

53rd Convocation Day held at IIT Bombay



(L-R) Mr. Anand Mahindra, Chairman and Managing Director, Mahindra and Mahindra Limited, Mr. Kailash Satyarthi, Nobel Peace Prize Laureate, Prof. Devang Khakhar, Director, IITB on the dias and the Senate Members (Centre) at the 53rd Convocation

The 53rd Convocation of the Indian Institute of Technology Bombay (IIT Bombay) was held on August 8, 2015 on campus. 2389 students were awarded the degrees on successful completion of their academic programmes. **Mr. Kailash Satyarthi, Nobel Peace Prize Laureate**, was the Chief Guest for the occasion and he delivered the Convocation Address. Speaking to the graduating students, Mr. Satyarthi said, “*I urge you all to add three ‘Ds’ to your name. The first D is to dream- dream big, not for yourself but for the country and for the world. The second ‘D’ is to Discover- discover your full potential and the opportunities that surrounds you and the third ‘D’ is to ‘Do’.* Do means to act on your dreams, and make best use of the opportunities you have discovered. I am sure if you master all these ‘Ds’ in your life you will bring prosperity not only for your parents and family but for the country and the world. From my own experience I want to say that you should follow your heart and the mind will follow you. Believe in yourself and you will create miracles.”

The graduating students this year include **230 Ph.Ds**, **12 Dual Degree (M.Tech. + Ph.D.)** and **8 Dual Degree (M.Sc. + Ph.D.)**, which is the highest number of doctoral students being awarded their degrees at a Convocation ever, in the history of IIT Bombay. Out of these **29 Research Scholars** were selected for the ‘**Award of Excellence in Ph.D. Thesis**’ for the year 2015, as compared to 27 awards in the year 2014 and 25 awards in the year 2013. In addition, **16 joint Ph.D. degrees**, in association with Monash University, were also conferred by the Deputy Chancellor of

Monash University, Prof. Yehudi Blacher, present on the occasion. Besides these, **18 M.Phil.**, **620 M.Tech.**, **79 M. Mgmt.**, **61 M.Des.**, **271 five-year B.Tech.+M.Tech (Dual Degree)**, **6 PGDIIT**, **24 five-year integrated M.Sc.**, **194 two-year M.Sc.** and **559 B.Tech. Degrees**, were awarded at the Convocation.

Presenting the Institute's Report for the year 2014-15, Prof. Devang V. Khakhar, Director of IIT Bombay informed that IIT Bombay continues to be a sought-after destination for UG and PG studies. "Among 20 IITs in the country, 47 out of top 50 rankers, and 64 of top 100 rankers in JEE 2015 have joined IIT Bombay and 10 of the top 10 All-India JEE rank holders chose the Institute. Similar trends are observed for the candidates qualifying in other entrance examinations as well," he said.

This year, **3** students were presented with the Gold medals for their exemplary performance. The '**President of India Medal**' was bestowed on **Mr. Ashwin R., B.Tech. student from the Department of Aerospace Engineering**. The '**Institute Gold Medal**' was awarded to **Mr. S.Vignesh, Dual Degree student from the Department of Electrical Engineering** and the '**Dr. Shankar Dayal Sharma Gold Medal**' was conferred on **Mr. Pravesh Vijay Kochar, B.Tech. Student from the Department of Electrical Engineering**. Additionally, more students were presented with Gold Medals sponsored by donors.



R. Ashwin receiving the President Gold Medal from Chief Guest at the 53rd Convocation



Mr. Anand Mahindra of Mahindra Group receiving the Honoris Causa from Chief Guest Mr. Kailash Satyarthi, Prof. Devang Khakhar, Director, IIT Bombay looks on the proceedings

Mr. Anand Mahindra, Chairman and Managing Director of Mahindra and Mahindra Limited, was conferred with Degree of Doctor of Science (Honoris Causa) for his extraordinary commitment in furthering the cause and growth of Automobile Industry, and for his significant contribution to the Social Development of India.

While speaking to the graduating students after receiving the award Mr Anand Mahindra said, "Everyone says that 'Jugad' is India's biggest contribution to the world. What I want from you all is to work towards moving from 'Jugad' to 'Jhakaas'. This can be done by thinking differently. Therefore, I believe that there is a need for

an education system where questions are encouraged and failures are embraced. The need is to add 'I' in the system. This 'I' stands for imagination. This will lead us to not only ask the world to 'Make in India' but also 'Imagine in India.'

The Convocation also witnessed the 'Lifetime Achievement Award 2014-15' of IIT Bombay being bestowed on Prof. Dinesh K Sharma from Department of Electrical Engineering, in recognition to his contributions to the Institute. On receiving the award Prof. Dinesh K Sharma thanked the Institute for the award and said, "I not only want to thank the Institute for the conferment of this award on me but for giving me an opportunity to work with great mentors, amazing colleagues and best talent in the country which is a dream come true for anyone. Many say that life time achievement award means full stop to one's activities but I promise to prove them wrong."



Prof. Dinesh Sharma receiving the Lifetime Achievement Award from Chief Guest Mr. Kailash Satyarthi

Prof. Yehudi Blacher, Deputy Chancellor, Monash University, Australia, members of Board of Governors and several other distinguished guests from India and abroad attended the Convocation function, besides the graduating students and their proud parents.

MEDALS AND PRIZES

President of India Medal

(for the year 2014-15)

Ashwin R

Department of Aerospace Engineering (B.Tech)

Institute Gold Medal

(for the year 2013-14)

B.Tech (Dual Degree)

S Vignesh

Department of Electrical Engineering (Dual Degree)

Institute Silver Medal

(for the year 2014-15)

Bachelor of Technology (B.Tech)

Department of Aerospace Engineering

Ashwin R

Department of Chemical Engineering

Tuhina Ghanty

Department of Civil Engineering

Pratik Sharad Deogekar

Department of Computer Sc.& Engineering

Astha Agarwal

Sagar Jha

Department of Electrical Engineering

Pooniwala Gaurav T.

Department of Mechanical Engineering

Kulkarni Chinmay Sameer

Department of Metallurgical Engineering & Materials Science

Devansh Ashish Sanghavi

Department of Engineering Physics

Aditi Udupa

Master of Science (M.Sc.) Programme

Department: Earth Sciences

Sabyasachi Bhowmick (Applied Geology)

Sakshi Singhal (Applied Geophysics)

Department: Chemistry

Pooja Agarwal

Srimukh Prasad V K

Department: Mathematics

Kriti Goel

Kartik Verma

Department: Physics

Roopayan Ghosh

Department: Biosciences and Bioengineering

Sukanya Guhathakurta (Biotechnology)

Dual Degree(B.Tech. + M.Tech.)

Department: Aerospace Engineering

Awale Vaibhav Gundappa

Department: Chemical Engineering

Anish Gupta

Department: Civil Engineering

Suryakant Agrawal

Department: Electrical Engineering

S Vignesh

Department: Mechanical Engineering

Bharat Monga

Department: Metallurgical Engineering and Material Science

Kavle Pravin Narendra

Department: Engineering Physics

Chatterji Niladri Upal

Department: Energy Science & Engineering

Pranav Ajit Kumar Shetty

Master of Technology (M.Tech.) Programme

Department: Aerospace Engineering

Sumit Sharma

Department: Chemical Engineering

Rajarshi Sengupta

Department: Civil Engineering

Asim Qureshi

Department: Computer Science & Engineering

Aman Madaan

Department: Electrical Engineering

Baibhab Chatterjee

Fadadu Jaydip Ramnikbhai

Department: Mechanical Engineering

Patel Harshil Vishnukumar

Department: Metallurgical Engineering and Materials Science

Devendra Singh Negi

Department: Biosciences and Bioengineering

Greeshma Unnikrishnan (Biomedical)

Department: Centre for Environmental Science & Engineering

Joseph V. Puthussery

Department: Earth Sciences

Madhuri M. Nagare

(Geoinformatics and Natural Resources)

Dandamudi Subhakar (Earth Science)

Department: Energy Systems and Engineering

Battula Swathi

Department: Materials, Manufacturing & Modelling

Chougule Sandip Subhash

Department: Systems & Control Engineering

Sameer Vilas Rokade

Sandhya Seetharaman (Technology & Development)

IE & OR

Tushar K. Satish

Master of Design

Department: Industrial Design Centre
Trivikram A. (Industrial Design)

Master of Philosophy

Department: Humanities and Social Sciences
Niraj Nirola (Planning & Development)

Master of Management

Department: SJM School of Management
Ramneesh Singla

OTHER MEDALS

Miss Jayati Deshmukh Memorial Gold Medal
Ayush Kanodia, Computer. Sc. & Engg.

Dr. Shankar Dayal Sharma Gold Medal
Kochar Pravesh Vijay, Electrical Engg. (B.Tech)

Vidyasagar Nehra Gold Medal
Pratik Sharad. Deogekar, Civil Engg. (B.Tech)

Prof Madhav Kulkarni Lt. Col.(R) Gold Medal
Pratik Sharad. Deogekar, Civil Engg. (B.Tech)

Rajit Bhagwati Memorial Gold Medal
Joseph V. Puthussery, CESE

Hindi Vidya Bhavan Gold Medal
Ramneesh Singla, M.Mgt

Sharad Maloo Memorial Gold Medal
Pranav Ajit Kumar Shetty, Energy Sc. & Engg.

PRIZES

Prof K C Mukherji Award
Gaurav Pooniwala

Tulsiram Devidayal, P.M. Natu, Damle Trust Prize
Harshil Vishnukumar Patel

Prof. R.P. Singh Memorial Prize
(B.Tech / 2 Yr. M.Sc.)
Roopayan Ghosh

Chandrashekhar Prize
Tuhina Ghanty

Shri R Vembu Iyer Memorial Prize
Sabyasachi Bhowmik

Dilip R Limaye Academic Excellence Award
Ashwin R.

Prof. A.B. Biswas Memorial & Shri Prakash Krishnan Award Prize (M.Sc.)
Pooja Agarwal

Dr. Gargi Vishnoi Memorial Prize
Jayant Asthana

Prof. Hiralal Memorial Award
Pooja Agarwal
Srimukh Prasad V.K.

Shri Ashok Chaturvedi Memorial Prize (M.Tech)
Harshil Vishnukumar Patel

Manjula Bagmal Parikh Memorial Foundation Trust Prize (silver medalist)
Pratik Sharad Deogekar
Astha Agarwal
Sagar Jha
Pooniwala Gaurav Triveshkumar
Kulkarni Chinmay Sameer

Prof. M.N.Gopalan Prize (M.Sc.)
Kartik Verma

Prabhulal Bhatnagar Memorial Prize
Akshay Sakharam Rane

Mrs. Rama Mathur Memorial Prize
Kriti Goel

Ajit Shelat Award
Fadadu Jaydip Ramnikbhai
Aman Madaan

Bhaves Gandhi Memorial Prize
S. Vignesh
Heerak Banerjee
Roopayan Ghosh

Akshay Dhoke Memorial Award
Siddharth Buddhiraju

Prof. K.C. Khilar PhD Award
Karyappa Rahul Bapusaheb
Manjula Paramati

Prof. K.C. Khilar Prize (M.Tech)
Anish Gupta

R.G. Manudhane M.Tech student Excellence Award Best M.Tech Thesis
Rajashri Sengupta

R. G. Manudhane PhD Excellence Award
K. Hariprasad

Mr. Pranab Ranjan Sen Award
Malav S. Simaria

The following students were awarded the Academic Prizes for the year 2014-15.

II year B.Tech / Dual Degree

Sr. No.	Name	Prize	Value of prize	Department
1	Vaidya Kapil Eknath	I	Rs.3000/-	Computer Sc. & Engg.
2	Shubham Goel	I	Rs.3000/-	Computer Sc. & Engg.
3	Chitraang Murdia	I	Rs.3000/-	Engineering Physics
4	Sohum Dhar	II	Rs.2000/-	Computer Sc. & Engg.
5	Aviral Kumar	II	Rs.2000/-	Computer Sc. & Engg.
6	Govind Lahoti	II	Rs.2000/-	Computer Sc. & Engg.
7	Anuj Mittal	Additional	Rs.2000/-	Computer Sc. & Engg.
8	Aniket Murhekar	Additional	Rs.2000/-	Computer Sc. & Engg.
9	Sattwik Deb Mishra	Additional	Rs.2000/-	Electrical Engg.
10	Reebhu Bhattacharyya	Additional	Rs.2000/-	Engg. Physics
11	Kalantre Sandesh Sachin	Additional	Rs.2000/-	Engg. Physics
12	Ravi Teja A V	Additional	Rs.2000/-	Computer Sc. & Engg
13	Saurabh Garg	Additional	Rs.2000/-	Computer Sc. & Engg.
14	Sanat Anand	Additional	Rs.2000/-	Computer Sc. & Engg.

III year B.Tech./Dual Degree/M.Sc.(Integrated) Branchwise

Sr. No.	Name	Prize	Value of prize	Department
1	Pavan R Hebbar	I	Rs.3000/-	Aerospace Engineering
2	Mrinalgouda Patil	II	Rs.2000/-	Aerospace Engineering
3	Kadulkar Sanket Ranjan	I	Rs.3000/-	Chemical Engineering
4	Lad Tanmay Vivek	II	Rs.2000/-	Chemical Engineering
5	Prajwal.K.A	I	Rs.3000/-	Civil Engineering
6	Pratik Mahesh Lodha	II	Rs.2000/-	Civil Engineering
7	Mohammed Owais Khan	I	Rs.3000/-	Computer Sc. & Engg.
8	Anchit Gupta	I	Rs.3000/-	Computer Sc. & Engg.
9	Shantanu Yogeshraj Thakoor	II	Rs.2000/-	Computer Sc. & Engg.
10	Jay Mardia	I	Rs.3000/-	Electrical Engineering
11	Sudipto Mitra	II	Rs.2000/-	Electrical Engineering
12	Sheel Nidhan	I	Rs.3000/-	Mechanical Engineering
13	Patankar Aniket Sanjay	II	Rs.2000/-	Mechanical Engineering
14	Tushar Sanjay Karnik	I	Rs.3000/-	Met.Engg.& Mat.Sci
15	Saurabh Ranjan	I	Rs.3000/-	Met.Engg.& Mat.Sci
16	Jain Rohit Hemant	II	Rs.2000/-	Met.Engg.& Mat.Sci
17	Suvajit Majumder	I	Rs.3000/-	Engineering Physics
18	Umang Bharat Mehta	II	Rs.2000/-	Engineering Physics

III year B.Tech./Dual Degree/M.Sc.(Integrated) Branchwise Dual Degree

Sr. No.	Name	Prize	Value of prize	Department
1	Bhat Ashwin Rajendra	I	Rs.3000/-	Electrical Engineering
2	Sarath Pattathil	II	Rs.2000/-	Electrical Engineering
3	Arte Vivek Sanjay	II	Rs.2000/-	Electrical Engineering
4	Bohra Pakshal Narendra	II	Rs.2000/-	Electrical Engineering
5	Shah Saumil Dhanraj	I	Rs.3000/-	Mechanical Engineering
6	Sanghvi Yash Chetan	II	Rs.2000/-	Mechanical Engineering
7	Sanghavi Bhavik Jashmin	I	Rs.3000/-	Met. Engg. & Mat.Sc
8	Mehta Rachit Chetan	II	Rs.2000/-	Met. Engg. & Mat.Sc
9	Harshwardhan Alok Singh	I	Rs.3000/-	Energy Sc. & Engg
10	Sushrut Dhananjay Thakar	II	Rs.2000/-	Energy Sc. & Engg
11	Saumya Shivam	I	Rs.3000/-	Engineering Physics

5 year.Int.M.Sc

Sr. No.	Name	Prize	Value of prize	Department
1	Akanksha Manghrani	I	Rs.3000/-	Chemistry
2	Kotaru Sai Kiran	II	Rs.2000/-	Chemistry

**IV year B.Tech./Dual Degree/M.Sc.(Integrated) Branchwise
B.Tech**

Sr. No.	Name	Prize	Value of prize	Department
1	Kunal Garg	I	Rs.3000/-	Aerospace Engineering
2	Ashu Bapna	II	Rs.2000/-	Aerospace Engineering
3	Manasvita Vashisth	I	Rs.3000/-	Chemical Engineering
4	Maliekkal Vineet Jeco	II	Rs.2000/-	Chemical Engineering
5	Agneya Sunil Loya	I	Rs.3000/-	Civil Engineering
6	Rounaq Basu	II	Rs.2000/-	Civil Engineering
7	Prateesh Goyal	I	Rs.3000/-	Comp.Sc. & Engineering
8	Amal Manish Dani	II	Rs.2000/-	Comp.Sc. & Engineering
9	Shubham Chandak	I	Rs.3000/-	Electrical Engineering
10	Pulkit Tandon	II	Rs.2000/-	Electrical Engineering
11	Varun Gandhi	I	Rs.3000/-	Engineering Physics
12	Shiveshwarkar Charuhas Waman	II	Rs.2000/-	Engineering Physics
13	Deepak Dilipkumar	I	Rs.3000/-	Mechanical Engineering
14	Jivani Kartik Nagjibhai	II	Rs.2000/-	Mechanical Engineering
15	Raman Kukreja	I	Rs.3000/-	Met. Engg. & Mat. Sci
16	Sonal Kumar	II	Rs.2000/-	Met. Engg. & Mat. Sci

IV year B.Tech./Dual Degree/M.Sc.(Integrated) Branchwise

Sr. No.	Name	Prize	Value of prize	Department
1	Vipul Goyal	I	Rs.3000/-	Aerospace Engineering
2	Utkarsh Singhai	I	Rs.3000/-	Chemical Engineering
3	Vardhman Kumar	II	Rs.2000/-	Chemical Engineering
4	Sneha Dilip Goenka	I	Rs.3000/-	Electrical Engineering
5	Ojas Apoorva Kanhere	I	Rs.3000/-	Electrical Engineering
6	Akhil Shetty	II	Rs.2000/-	Electrical Engineering
7	Pranav Tiwari	I	Rs.3000/-	Mechanical Engineering
8	Ghogare Sumedh	II	Rs.2000/-	Mechanical Engineering
9	Himanshu Nigudkar	I	Rs.3000/-	Engineering Physics
10	Ankit Jotwani	I	Rs.3000/-	Energy Sc & Engineering
11	Chintakindi Shraavan Kumar Reddy	II	Rs.2000/-	Energy Sc & Engineering
12	Aniruddha Singh Lakhnot	I	Rs.3000/-	Met. Engg. & Mat. Sc
13	Atul Gupta	II	Rs.2000/-	Met. Engg. & Mat. Sc

5 yr. Int. M.Sc.

Sr. No.	Name	Prize	Value of prize	Department
1	Korak Kumar Ray	I	Rs.3000/-	Chemistry

**V year Dual Degree/M.Sc.(Integrated) Branchwise
Dual Degree**

Sr. No.	Name	Prize	Value of prize	Department
1	Monimoy Bujarbaruah	I	Rs.3000/-	Aerospace Engineering
2	Atharva Shailendra Kelkar	I	Rs.3000/-	Chemical Engineering
3	Prakhar Jaju	II	Rs.2000/-	Chemical Engineering
4	Abhideep Sahu	I	Rs.3000/-	Civil Engineering
5	Patil Sukanya Vijaysing	I	Rs.3000/-	Electrical Engineering
6	Saboo Krishnakant Vijay	II	Rs.2000/-	Electrical Engineering
7	Shah Nilay Mukund	I	Rs.3000/-	Energy Sc & Engineering
8	Iyengar Pranit Shriniwas	II	Rs.2000/-	Energy Sc & Engineering
9	Savla Nevil Bharat	I	Rs.3000/-	Mechanical Engineering
10	Arnab Joardar	II	Rs.2000/-	Mechanical Engineering

11	Vishwas Goel	I	Rs.3000/-	Met. Engg. & Mat Sci
12	Avijit Singh	II	Rs.2000/-	Met. Engg. & Mat Sc
13	Ankur Agrawal	I	Rs.3000/-	Engineering Physics

**V year Dual Degree/M.Sc.(Integrated) Branchwise
5 yr. Int. M.Sc.**

Sr. No.	Name	Prize	Value of prize	Department
1	Vishnu Nair	I	Rs.3000/-	Chemistry

II Year M.Sc.(2 year)

Sr. No.	Name	Prize	Value of prize	Department
1	Arka Chakraborty	I	Rs.3000/-	Chemistry
2	Abhoy Karmakar	II	Rs.2000/-	Chemistry
3	Saraiya Rasesh Krishnaraj	I	Rs.3000/-	Earth Sciences
4	Sayandeep Roy	II	Rs.2000/-	Earth Sciences
5	Nitish Nayak	I	Rs.3000/-	Physics
6	Surajit Dutta	II	Rs.2000/-	Physics
7	Anuradha Kumari	I	Rs.3000/-	Biosciences & Bioengineering.
8	Rishika Dasani	I	Rs.3000/-	Applied Statistics & Informatics
9	Brijesh Kumar Singhal	II	Rs.2000/-	Applied Statistics & Informatics
10	Samprit Ghosh	I	Rs.3000/-	Mathematics
11	Buddhadev Hajra	II	Rs.2000/-	Mathematics
12	Amit Kumar	I	Rs.3000/-	Applied Geophysics

OTHER PRIZES

Name of the Prize	Roll No.	Name of the Awardee	Total Amount
Shri Rakesh Mathur Excellence Award	120070028	Shubham Chandak	Rs. 1,00,000/- III yr. UG student..
Shri T.K. Subramanian Prize For Academic Excellence	120100089	Deepak Dilipkumar	Rs.1000/- III Yr. B.Tech Mech.Engg.
Urvish Medh Memorial Prize (For Electrical Engg.)	150070051	Kavali Vishnuvardhan Reddy	Rs.2000/- I Yr. B.Tech. Electrical Engg.
	140070036	Sattwik Deb Mishra	Rs.2000/- II Yr. B.Tech. Electrical Engg.
	13D070011	Jay Mardia	Rs.2000/- III Yr. B.Tech. Electrical Engg.
	120070028	Shubham Chandak	Rs.2000/- IV Yr. B.Tech. Electrical Engg.
Prof. M.N. Vartak Memorial Prize	145280024	Rishika Dasani	Rs.6000/- II yr. M.Sc. Applied Statistics & Informatics
Mrs. Rama Mathur Memorial Prize	145090021	Samprit Ghosh	Rs.2000/- II yr. M.Sc. Mathematics
Aditya Choubey Memorial Prizes	140070036	Sattwik Deb Mishra	Rs.4000/- II yr. B.Tech. Electrical
S C Mehrotra Prize	140040003	Preshit Wazalwar	Rs.10000/- II yr B.Tech Civil
	130040106	Prajwal K.A.	Rs. 10000/- III yr B.Tech Civil
	120040062	Karan Gupta	Rs. 10000/- IV yr B.Tech Civil
Prof. A.K. Mallik Award	12D110026	Aniruddha Singh Lakhnot	Rs.5000/- III yr. B.Tech, Met. Engg. & Mat. Sc.
Indira Manudhane Student Excellence Award	110020008	Atharva S. Kelkar	Rs.20000/- V yr Dual Degree Chemical Engg.

IIT Bombay-Monash unveil state of the art industry research facility



Hon. Christopher Pyne MP, Minister for Education and Training, Government of Australia, Prof Devang Khakhar, Director, IIT Bombay with other dignitaries at the inauguration of IITB Monash Building

The ongoing collaboration between Indian Institute of Technology Bombay (IIT Bombay) and Monash University was further strengthened by the inauguration of the IITB-Monash Research Academy building which boasts a state of the art industry research facility on August 22, 2015. The IITB-Monash Research Academy building was inaugurated on campus by the Hon Christopher Pyne MP, Minister for Education and Training, Government of Australia in the presence of Prof. Devang Khakhar, Director IIT Bombay, Mr Patrick Suckling, Australia's High Commissioner to India, Prof. Margaret Gardner AO, President and Vice-Chancellor, Monash University, Professor Murali Sastry, CEO of the IITB-Monash Research Academy and many other dignitaries.

Speaking on the occasion, the Hon Christopher Pyne MP, said he was delighted to open the new building of the IITB-Monash Research Academy situated at Indian Institute of Technology Bombay. Mr Pyne said that the IITB-Monash Research Academy is doing world-class collaborative research work that benefits both Australia and India. *"The Australian Government values our strong education and research relationship with India. Research collaboration is essential because no single government or organization*

can provide all the solutions to global challenges such as food, energy and water security or health," he said.

The IITB-Monash Research Academy is a unique global PhD research partnership between Monash University and the Indian Institute of Technology (IIT) Bombay. The Academy delivers innovative solutions through collaborative, multidisciplinary research projects across areas of strategic importance to industry and to Australian and Indian society.

Talking about the collaboration and how it is going from strength to strength, Professor Khakhar, Director, IIT Bombay, said, *"The IIT Bombay Monash University Research Academy is a unique India-Australia partnership in higher education and has grown to become the largest such joint degree PhD programme in the world. Students of the Academy are well prepared to work in the modern research ecosystem in which collaboration across borders is becoming essential to address the complex problems of the industry and society at large."*

Created in 2008 with initial bi-lateral funding from both Australian and Indian governments, The Academy saw for the first time an Australian university establishing an extensive commitment and presence in India in the research space. Today, The Academy is globally recognized for delivering a leading joint venture research program that closely partners with multinational industry leaders across multiple sectors. The Academy has produced more than 300 extremely high-quality publications, four patents and 28 PhD graduates, with 170 students currently in the program. Students study in both India and Australia and graduate with a jointly badged degree. Graduates are increasingly in demand by industry and universities all over the world. PhD students at the IITB-Monash Research Academy are co-supervised by IITB, Monash and industry mentors with over 30 placements across sectors to date including in COMSOL, India; Infosys, Amazon Labs, NEC Labs, Japan; Taiwan Semi-Conductor Ltd, Michelin, Vikram Sarabhai Space Centre, and various post-doctoral positions at leading universities around the world.

Advanced Machining Excellence Cell (AMEC), at National Centre for Aerospace Innovation and Research inaugurated at IIT Bombay



Dr. Greg Hyslop, Vice President and General Manager of Boeing Research and Technology with Director, IIT Bombay and other Dignitaries during AMEC launch.

As a step towards realizing the vision of the 'Make in India' initiative, and in accordance with its goal of creating a world-class aerospace manufacturing ecosystem in India, NCAIR along with DMG Mori India launched its Advanced Machining Excellence Cell (AMEC) on July 18, 2015 at IIT Bombay. Dr. Greg Hyslop, Vice President and General Manager of Boeing Research and Technology, USA, inaugurated the Cell in the presence of Mr. H.K. Mittal, Advisor, Ministry of Science & Technology; Dr. Pratyush Kumar, President, Boeing India; Prof. Devang Khakhar, Director, IIT Bombay, and other dignitaries from NCAIR partner industries.

Speaking on the occasion Dr. Greg Hyslop said, ***“Innovation and technology are at the heart of what we do and that is what differentiates us. When Boeing conceptualized the NCAIR consortium it was with the objective of supporting world-class research and development in aerospace, and practically applying this research towards the development of aerospace manufacturing capability in India. As technology advances at ever-accelerating speeds, collaboration and strengthening partnerships globally will be a key to our success and we look forward to working together with the Indian industry to address the challenges in aerospace manufacturing, in the years to come.”***

National Centre for Aerospace Innovation and Research (NCAIR) was established at IIT Bombay in 2010 as a joint collaboration between IIT Bombay, Department of Science and Technology (DST) - Government of India, and The Boeing Company. NCAIR works as a consortium between aerospace industries and IIT Bombay. The

Centre currently has eight partners, of which IIT Bombay, DST, The Boeing Company, Hindustan Aeronautics Limited (HAL), and National Aerospace Laboratories (NAL) are the founding partners; DMG Mori, Delcam, and Sandvik are the industry partners.

Speaking about the growth of NCAIR over the years Prof. Asim Tewari, Professor In-charge of NCAIR informed, ***“NCAIR came into existence in November 2010 and since then we have focused on developing aerospace manufacturing capability through related training, technology transfer, R&D, and shared infrastructure. As of now we have 22 invention disclosures towards patenting under our name and we wish to create a world class aerospace manufacturing ecosystem in the country in the years to come. We are currently working towards realizing this goal.”***

The AMEC will house a DMG Mori machine, DMC 125 FD duoBLOCK®, which is a fourth generation advanced industrial scale 5-axis milling-turning machine - the largest

machine in any educational and research institutes in India. The forte of AMEC lies in manufacturing components with complex geometries and sculptured surfaces, which are common in modern aerospace applications. It combines milling and turning operations in a single configuration, and can be used to manufacture complex turbine engine parts such as compressor plates. It can also machine mechanical parts for hydraulic turbines and automobiles. The AMEC will use the latest numerical control technology to achieve very high precision machining, which is required for aerospace applications. Using a wide variety of tools, it is capable of processing advanced aerospace materials such as titanium and Inconel, in addition to conventional materials such as aluminium and steel, and would result in significant time savings in manufacturing. NCAIR and its partners envision the inception of AMEC at IIT Bombay, as the beginning of a new age in indigenous advancement of machining technology through a collaborative consortia approach, thus, contributing to the ‘Make in India’ initiative.

Digital India Week at IIT Bombay



Exhibits showcased during Digital India Week.

As a part of the ‘Digital India Week’ undertaken by the Government of India, IIT Bombay showcased projects to empower the nation through Education Technology on July 2, 2015. The inauguration of the event was done by Prof. Prasanna Mujumdar, Dean R&D, IIT Bombay, Prof. Deepak B. Phatak, faculty and Principal Investigator T10KT Project, IIT Bombay, and Prof. Kannan

Moudgalya, faculty and Principal Investigator Spoken Tutorials, IIT Bombay.

Speaking on the occasion, Prof. Mujumdar said, ***“Education and R&D go hand in hand. Our motto at IIT Bombay is to develop technology that will be beneficial for the society at large. Through this initiative, we wish to inform people about the various projects that we have undertaken over the years and how they can benefit from them for a better life and future.”***

Digital India week at IIT Bombay showcased projects that aim at transforming India into a digitally empowered society and knowledge economy. It comprised of various initiatives, each targeted to prepare India for becoming a knowledge economy through synchronized and coordinated engagement. Speaking on the relevance of Digital India, Prof. Moudgalya said, ***“India is an aspiring country. We desire to become a developed nation. But following the route of the western countries through the conventional approach of building physical infrastructure will be extremely time consuming and pro***



Students looking at the exhibits during Digital India week' 2015

hibitively expensive. The brick and mortar approach can easily be replaced by ICT based techniques that will help us leapfrog and catch up with the developed world quickly.”

Technology therefore has become one of the most important and sought out thing in the recent years. The initiative of Digital India Week therefore aims to bridge the digital divide. Speaking about the need to bridge the gap, Prof. Deepak B. Phatak said, “It is our commitment to the nation to provide each and everyone an access to the information available on the open source. The fact that most of the information available on the open source is in English creates this digital divide. Therefore we are trying to offer blended courses in different Indian languages so that people who are eager to learn are not devoid of this opportunity.”

T10KT, e-kalpa, e-Yantra, FOSSEE, Spoken Tutorial, Virtual Labs, Ask a Question, and Courses on View were some of the projects which were displayed during the day. The event was an opportunity to showcase the various initiative undertaken by IIT Bombay in the field of ICT. Most of these projects are funded by the National Mission on Education through ICT, MHRD, Govt. of India. In addition to the events at IIT Bombay, more than 100 academic institutions across India that are project partners of IIT Bombay also celebrated the Digital India Week.

International Yoga Day celebrated at IIT Bombay



(L-R) Shri. Ajit Shriram Ghangrekar, Assistant Secretary, Shri Ambika Yoga Kutir, Prof. D V Khakhar, Director, Mr. Prem Kumar, Registrar on the event of International Yoga Day celebration at the Institute.

As a part of the global initiative and as an endeavor towards promoting a holistic approach to health and well-being, IIT Bombay celebrated the “International Yoga Day”, on June 21, 2015 in its Campus. The program started with an address by Prof. Devang V Khakhar, Director, IIT Bombay, in which he laid a lot of importance on well being and health of human body and soul through Yoga. He said, “At IITB, we have been having yoga classes for student and staff for more than 20 years. It is a form of activity in which both young and old can practise and desire benefit. With International Yoga Day Celebrations, Yoga has become a universal phenomenon and it is a joyous moment for us to be a part of it”.

Highlights of the International Yoga Day Celebration at IIT Bombay

Lecture-cum-Demonstration of Yoga

Shri. Ajit Shriram Ghangrekar, Assistant Secretary, Shri Ambika Yoga Kutir gave a lecture-cum-demonstration on Yoga with the help of volunteers from Shri Ambika Yoga Kutir. Speaking at the occasion, Shri, Ghangrekar said, “Total well being includes physical, mental, emotional and spiritual health. Pollution and toxins enter our body in various ways and if we are able to expel those toxins from our body with the help of yoga, we can ensure a healthy body.”

Yogathon - 108 Suryanamaskar Challenge

The most unique feature of the celebrations was the ‘Yogathon’ Challenge wherein almost 100 students of IIT Bombay took the challenge of performing 108 rounds of Suryanamaskar.

The event came to a close with a Vote of Thanks by Registrar of the Institute, Dr. R. Premkumar.



Students, Faculty and Staff members performing Yoga during the International Yoga Day Celebration at the Institute.

25th Vanamahotsav celebrated at IIT Bombay



(L-R) Mrs. Alpana Bhagwat, Principal, Campus School, Mrs. Mamata Bhattacharya, Principal, Kendriya Vidyalaya, Prof. H.S. Pandalai, Deputy Director (FEA), Prof. N. Venkataramani, Dean (IPS) and Prof. B.V.S. Vishwanadham, Associate, Dean (IPS), Mrs. Sridevi D.S., Vice-Principal, Campus School on the dias during 25th Vanamahotsav

faculty and staff of the Institute, this year. The saplings were planted at both the schools as well as at the fringe of several roads on the Campus.

In his address, Prof. H.S. Pandalai, Deputy Director (FEA), IIT Bombay and Chief Guest for the occasion, spoke on the significance of trees in our lives and encouraged the student participants to develop genuine love for nature. *“One should be passionate about whatever you believe in life and it is very important to be passionate about trees and environment since they are the main source of life,”*



Students planting saplings during the 25th Vanamahotsav celebrations at the Institute

In an endeavor towards maintaining the green cover of its Campus and spreading the message of conserving nature, Indian Institute of Technology Bombay (IIT Bombay) celebrated **25th Vanamahotsav** – the annual tree plantation drive, on July 4, 2015 in its Campus. Almost 2000 saplings of 20 varieties (including Juhi, Jackranda, Palash, Bakul, Nilgiri etc.) were planted by school students and teachers of Kendriya Vidyalaya and Campus School (both located within IIT Bombay campus) and the students,



he added. Prof. Pandalai also planted a sapling to commemorate the event. Now in its 25th year, the annual tree plantation function was initiated way back in 1991 by Mr. V.B. Mamdapur, Superintendent Engineer, Estate Office and has become bigger and better with time.

Earlier in the day, Prof. N. Venkataramani, Dean, Infrastructure Planning and Support, said, *“Vanamahotsav is a nice opportunity for all of us and especially the young students to get acquainted to the chief life giver on the planet – the trees, which give us so much including energy, nourishment and happiness.”*

Cultural performances by the students of Campus School and Kendriya Vidyalaya, highlighting the importance of trees in our lives, were much appreciated by the gathering. The event was organized by the Horticulture Section of the Estate Office, IIT Bombay, which takes due care of the saplings planted at *Vanamahotsav*, throughout the year.

Design Degree Show-2015 at IIT Bombay



Ms. Amita Sharma, (Advisor, MHRD) looking at the exhibits displayed by the IDC students during DDS'15

The Design Degree Show (DDS'15), an annual event where graduating students of the Master of Design programme offered by the Industrial Design Centre (IDC), IIT Bombay showcased their work during June 13-17, 2015 in the campus. Ms. Amita Sharma, Advisor, MHRD inaugurated the event and also delivered a keynote address on the topic of ‘Transformative Power of Design’.

During her address Ms. Sharma said, *“Design touches life in every form, even where it appears amorphous. It shapes life even in its casual and artless encounter with it. But, equally, design is shaped by life, its challenges and aspirations. It pervades all space. Design is inevitable in human experience and its expression. The sense of anarchy in life is the breakdown of design.”*

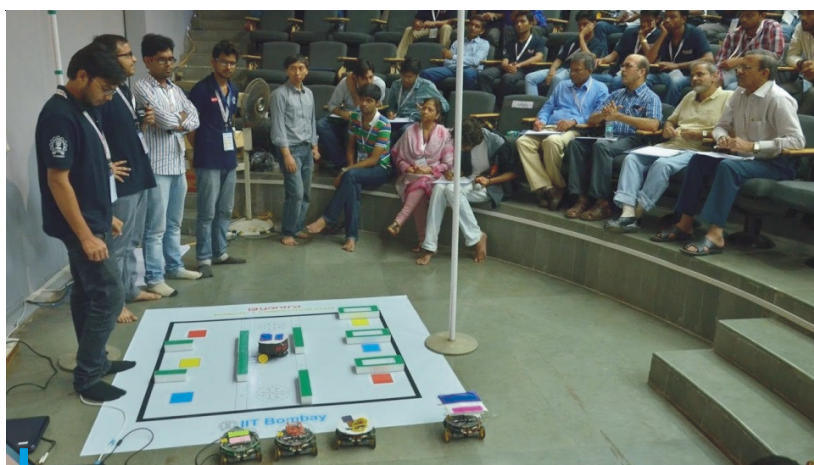
The event witnessed **190 Design Projects by 56 students across six themes**. The projects themes were **Art, Craft and Culture; Access and Transportation; Health and Well-Being; Society and Analysis; Communication and Learning; and Working and Living India**.

Talking about the various themes and the basic idea behind the event Prof. B. K. Chakravarthy, Head, IDC,

informed, *“This year the students have taken a different approach by not displaying their work in traditional stream wise pattern. Instead the projects were clustered into the various themes of their relevance to the society.”*

The event was a design extravaganza which not only provided innovative design solutions for day to day problems but also acted as a meeting point for the design enthusiasts.

Registrations open for e-Yantra Robotics Competition-2015 (eYRC-2015)



Students during the e-yantra competition

The **e-Yantra Robotics Competition (eYRC-2015)**, a part of the e-Yantra project, was launched on August 1, 2015 where, (i) students register as a team of 4 and take an online selection test (ii) selected teams are given a problem specified as a theme in a rule book (iii) teams get a robotic kit along with accessories to solve the problem and (iv) teams solve the problem in a step-by-step manner being taken through the project life cycle in a systematic way. **The last date to register for the competition this year was August 31, 2015 at <http://portal.e-yantra.org>**

“This means that even students with no prior exposure can learn the concepts and come up with innovative solutions. Thus, this competition is used to impart Project Based Learning (PBL) through hands on experiments on a robotic platform where students do not have to pay any registration fee nor spend any money to buy the robotic kit. In addition to learning the concepts and micro-controller programming students also learn soft skills such as teamwork, video-editing, and presentation skills,” informed Prof. Kavi Arya, Principal Investigator, e-Yantra project.

Themes from the domain of **“Smart Services”** will be assigned this year to student teams, challenging them to develop indigenous solutions using robotics to engineer services such as, Delivery services, Hotel services, and Emergency Services. **eYRC-2015 aims to bring awareness to problems in Smart Services** through themes that engage participants to solve problems in these vital domains.

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. Professors Kavi Arya and Krithi Ramamritham of the Computer Science and Engineering Department, IIT Bombay have conceptualized e-Yantra project after years of experience in teaching embedded systems.

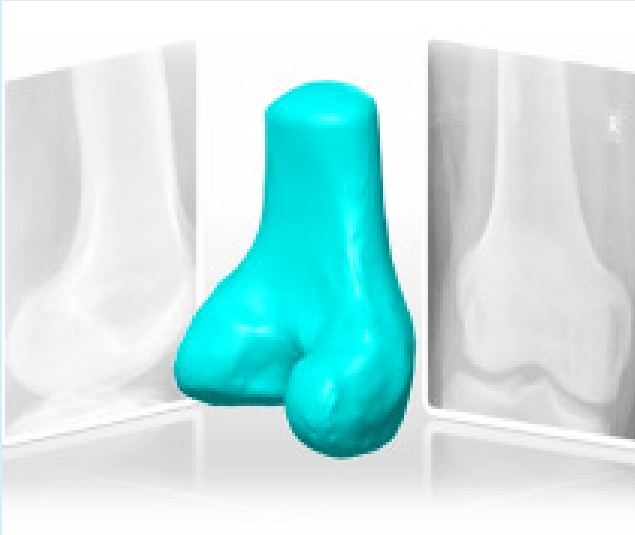
Independence Day



Independence Day was celebrated on August 15, 2015 with lots of enthusiasm. The National Flag was unfurled by the Director, Prof. Devang V Khakhar at the Main Building in IIT Bombay Campus, followed by a Speech.

Research in Focus

X-ray to 3D



“Can we get a 3D model from 2D X-ray images of a bone from a patient’s body?” asked a top surgeon from Hinduja hospital, who wanted an alternative to the current practice. The OrthoCAD lab’s software can do this within a minute, with at most two X-ray images.

The challenge looked impossible, because as any engineer knows, 2D views can be generated from a 3D model but not vice versa. But Dr. Manish Agarwal, the surgeon, quipped that if he can reconstruct the model in his mind, then why can’t we develop a computer program to do the same. The idea was to

generate 3D model using X-ray images unlike reconstructing a 3D model from CT scanning which involved several hundred times more radiation, besides being more expensive to the patient.

Thus started the journey of Vikas Karade a research scholar and Professor B. Ravi at OrthoCAD Lab, to find a way to solve the above problem. Aptly named ‘XrayTo3D’, their program can convert 2D X-ray images of a bone (femur, in this case) from a patient into a 3D model. A demo version exists on the [OrthoCAD lab website](#), which can be freely used by any clinician. This work fetched Vikas the ‘Gandhian Young Technological Innovation Award’ on 2014.

The input is either one or two X-ray images taken at perpendicular planes and a 3D template of the corresponding bone. The template needs to be created only once (for each bone) from CT images of a healthy patient. The template is projected on the two planes of the X-ray images. The projections are matched in shape with the X-ray images by the algorithm and the modified projections are converted back to a 3D model. It takes less than a minute to generate the 3D shape of the patient’s bone, with an error of less than 1.5 mm compared to that reconstructed from CT images.

The program can be used by orthopedic surgeons to plan surgeries in 3D without using radiation-intensive and expensive CT scans, which is a boon even in rural areas where CT scan machines are rare. Vikas is now implementing the program for use on tablets and smartphones, making it orthopedic surgeons’ next best friend and benefitting thousands of patients.

For more information please visit <http://www.iitb.ac.in/en/research-highlight/x-ray-to-3d>

ICCES Lifetime Achievement Medal conferred on Prof. Tarun Kant



Prof. Tarun Kant receiving ICCES 2015 Life Time Achievement Award

Prof. Tarun Kant, Department of Civil Engineering, received the ICCES Lifetime Achievement Medal on July 23, 2015 in Reno, Nevada, USA for his seminal contributions to composite materials, and for imparting education to generations of students in India. While receiving the award he said, *"I dedicate this award to my former students for the hard work put in by them and I am just accepting this award on their behalf. Almighty, the God, has been kind to me and the people around me have been nice to me. Finally I have just been lucky."*

Institute Colloquium / Lectures & Seminars



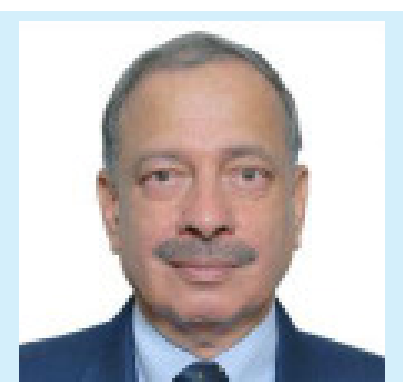
Prof. Madhu Sudan, Microsoft Research New England, United States, delivered an Institute Colloquium on *"Reliable Meaningful Communication"* on June 8, 2015.



Prof. Kenji Hata, Director Nanotube Application Research Center, AIST, Japan, delivered an Institute Colloquium on *"The Long and Winding Road Towards Single-Walled Carbon Nanotube Industrialization"* on June 10, 2015.



Dr. Samir Mitragotri, Director, Center for Bioengineering, Professor, Department of Chemical Engineering, University of California, Santa Barbara, CA, USA, delivered an Institute Colloquium on *"Innovative Systems for Effective Delivery of Therapeutics"* on July 16, 2015.



Air Marshal B.N. Gokhale, PVSM, AVSM, VM (Retd.), Former Vice Chief of the Air Staff, Consultant to the Principal Scientific Adviser, Government of India, delivered an Institute Colloquium on *"Safety in*

the High Growth Sector of Civil Aviation in India" on July 22, 2015.



Prof. Vikram Patel, International Mental Health and Wellcome Trust Senior Research Fellow in Clinical Science London School of Hygiene and Tropical Medicine, U.K, delivered an Institute Colloquium on *"The Mockery of Science in Public Policy: The case of suicide in India"* on August 21, 2015.



Prof Kaushik Basu, Senior Vice-President and Chief Economist, The World Bank, delivered the GL Mehta Memorial Lecture on August 26, 2015. The topic of the lecture was *"Can India Lead Global Growth?"*

Departmental Lectures

Department of Humanities and Social Sciences

Dr. Poulomi Saha, University of California, USA, delivered a talk in a seminar on "*The Matter of an Ivory Statuette*" on July 24, 2015.

Department of Physics

Prof. Federico Antinori, Physics Coordinator - ALICE Experiment at LHC at INFN, Sezione di Padova, delivered a talk in a seminar on "*Introduction to CERN, the LHC and the ALICE Experiment*" on July 27, 2015.

Department of Metallurgical Engineering and Materials Science

Prof. Balaji Iyer Vaidyanathan Shantha, IIT Hyderabad, delivered a talk in a seminar on "*Computational Design of Bio-inspired Particle-Polymer Hybrid Networks*" on August 24, 2015.

Centre for Technology Alternatives for Rural Areas

Mr Aniket Aga, Doctoral candidate, Yale University, USA, gave a presentation in a seminar on "*Merchants of Knowledge: Agribusiness retailers and vegetable*" on July 27, 2015.

Dr. Santosh Jagtap, Assistant Professor, Department of Design Sciences, Lund University, Sweden delivered a talk in a seminar on "*Human Behaviour in Engineering Design*" on July 29, 2015

Dr. Alark Saxena, Lecturer and Research Scientist, Yale University, USA, delivered a talk in a seminar on "*Modeling The Resilience of Household Livelihoods Within A Local Village Panchayat In Central India*" on August 27, 2015.

Climate Studies

Prof. N.K. Goel, Department of Hydrology, and Bharat Singh Chair Professor for Water Resources, IIT

Roorkee, delivered a talk in a seminar on "*Flood frequency analysis under climate and land use changes*" on August 5, 2015.

Dr. Baleshwar Kumar, (Former) Chief Scientist, Hydrocarbon Research & Exploration and Carbon Management, National Geophysical Research Institute, Hyderabad & Consultant, delivered a talk in a seminar on "*Global Energy Assessment: Role of Carbon Capture and Storage & Unconventional Gas in Mitigation of Climate Change*" on August 26, 2015.

Prof. Samriddhi Sankar Ray, Junior Faculty, International Center for Theoretical Sciences, Tata Institute of Fundamental Research, Bangalore, delivered a talk in a seminar on "*Settling, Collisions, Coalescences of Inertial Particles: Implications for Cloud Formation*" on August 12, 2015.

Dr. S. Naresh Kumar, Principal Scientist at National Innovation of Climate Resilient Agriculture, Indian Agriculture Research Institute, New Delhi, delivered a talk in a seminar on "*Climate Change and Indian Agriculture: Impacts, Adaptation and Mitigation potential*" on August 19, 2015.

SJM School of Management

Prof. Ron King, Olin Business School, Washington University, delivered a talk on "*Behaviors of successful MBA grads*" on July 20, 2015.

Other Lectures

Other Lectures

Dr. Jayant Sabnis, a renowned researcher in the field of Aircraft Engines delivered a talk on "*Aircraft Engines and his journey to develop the current engines family*" on July 17. The event was organized by Student's Technical Activities Body (STAB) and Tinkerers Lab

Conference / Invited Lectures

Prof. S.G. Dani, Department of Mathematics, visited Mathematical Sciences Research Institute (MSRI), Berkeley, CA, USA during May, 2015 and participated in the special program on "Geometric and Arithmetic Aspects of Homogeneous Dynamics".

He also participated in a conference at the Notre Dame University, Notre Dame, IN, USA, during June 1-5, 2015, on "Boundaries and Ergodic Geometry". He gave an invited seminar talk at the University of Strasbourg, Department of Mathematics, on June 10, 2015, on "Continued Fraction Expansions for Complex Numbers" and co-organized a conference on "Geometry in History" at the University of Strasbourg, Strasbourg, France during June 11-12, 2015, jointly with Athanase Papadopoulos, Univ. of Strasbourg.

Prof. Sanjeeva Srivastava, Department of Biosciences and Bioengineering, delivered a talk on "Biomedical innovation and strategies of governance: viewpoint from India" as an invited speaker and panelist during the Rising Powers Personalised Medicine workshop in King's college London on June 21, 2015 and also delivered a talk on "Proteomics for Translational Research in Brain Tumors" for an invited lecture at Tel Aviv University in Israel in May 2015.

Prof. Srivastava presented the poster entitled "Serum Proteomic Analysis of Vivax Malaria Patients at Three Time Points and Low and Moderate Parasitemia Reveals Potential Prognostic Biomarkers." at the 5th International Conference of Research on Plasmodium vivax malaria at Bali, Indonesia during May 2015.

Workshops

The Psychophysiology Laboratory, at the Department of Humanities and Social Sciences conducted an intensive three-day workshop during October 2014 on methods and analysis of Electroencephalography (EEG) and Functional magnetic resonance imaging or functional MRI (fMRI), in association with the University of Reading, UK. This workshop was held under the United Kingdom-India Education and Research Initiative (UKIERI). The workshop aimed at providing participants with a comprehensive overview of EEG and fMRI methods, as well as developing an interest in pursuing research with such methodologies. Apart from lectures, the workshop included on-site visits to NM Medical MRI Centre and the Psychophysiology Laboratory at IIT Bombay.

Awards and Distinctions

Prof. Ankur Kulkarni, System & Control Engineering has been selected as an Associate of the Indian Academy of Sciences, Bangalore.

Prof. Sagar Mitra, Department of Energy Science and Engineering, **Prof. Sudarshan Kumar**, Department of Aerospace Engineering and **Prof. Samir Maji**, Department of Bioscience and Bioengineering have been chosen for a 3 year membership of the American Chemical Society in recognition of their engagement with the Society's mission of service to the global community of chemists.

Prof. Atanu Ghosh, SJM, School of Management has been admitted as a Fellow of All India Management Association (AIMA).

Prof. Saurav Pal, Department of Chemistry, has been selected for a 3-year American Chemical Society Membership in recognition of his engagement with the Society's

mission of service and with the global community of Chemists.

Prof. Anil Kumar, Department of Chemistry, has been chosen for the Chemical Research Society of India Bronze Medal-2016.

Prof. Maheswaran Shanmugam, Department of Chemistry, has been awarded the prestigious INSA Medal for Young Scientist – 2015.

Prof. Amit Agrawal, Department of Mechanical Engineering, has been awarded the "DAE-SRC Outstanding Investigator" Award.

Prof. G.K. Lahiri, Department of Chemistry, has been selected for the prestigious Chemical Research Society of India Silver Medal for the year 2015.

Prof Sridhar Balasubramanian, Department of Mechanical Engineering, has been selected for the IEI Young Engineer's Award 2015-16

Institute Award Lecture Series

As part of series of presentations the recipients of the IRCC Awards – 2014 and Dr. P. K. Patwardhan Technology Development Award-2014 gave their presentations to the IIT Bombay community in three sessions. The first session was held on July 30, 2015, while the second and third session were held on August 12 and August 19, 2015 respectively. Prof. Debabrata Maiti, Department of Chemistry, Prof. Maheswaran Shanmugam, Department of Chemistry, Prof. Ashish Juneja, Department of Civil Engineering, and Prof. Sanjeeva Srivastava, Department of Biosciences and Bioengineering gave their presentations in the first session. The second session witnessed presentations from Prof. R.S. Jangid, Department of Civil Engineering, Prof. Anil Kottantharayil, Department of Electrical Engineering, and Prof. R. Murugavel, Department of

Chemistry. The speakers in the third session were Prof. Prasenjit Ghosh, Department of Chemistry, Prof. Suryanarayana Doolla, Department of Energy Science and Engineering, and Prof. Amartya Mukhopadhyay, Department of Metallurgical Engineering and Materials Science.

Student News

Organ Donation Camp

Samwad, IITB in collaboration with Mohan Foundation organized a five-day Organ Donation Campaign. It was an online campaign from August 13th-17th wherein one can register their wish and get a Donor Card through email. The online donor registration was a simplified version of the legal process set up via the Transplantation of Human Organs Act. As a part of this campaign an Interactive Session on Organ Donation with Dr. Sujata Nadar, Senior Transplant Coordinator at Global Hospital, Parel was also conducted.

Bronze Medal at the National level in Swimming Competition



Ms. Apeksha, who is being trained by Dr. P.M. Reddy, Incharge, IIT Gymkhana represented the State of Maharashtra at the national level for Breast stroke (Swimming) and won the Bronze medal under the category of 'Girls under 10'. She was awarded with a trophy and a cash prize of Rs. 5000/- for the best 'Breast stroke swimming technique'. The championship was conducted by Sports Authority of India. Ms. Apeksha is daughter of Prof. B G. Fernandes, Professor and Head for the Department of Electrical Engineering.

Publications

Prof. G. Mukhopadhyay, Department of Physics, presented a paper entitled "*Strained Graphene-like BeO monolayer: A DFT Study*" authored by H. Behera and G. Mukhopadhyay, at the International Conference "Graphene Week 2015" organized by Graphene Flagship in the University of Manchester, during 22-26 June 2015.

Prof. Sanjeeva Srivastava, Department of Biosciences and Bioengineering,* served as the Consulting Editor for the Nature India special issue on "Proteomics Research in India", August 2015

Sadhu S, Gandhi M, **Prof. Srivastava S.** published a paper titled "Application of Y2O3: Gd, Eu nanophosphors as fluorescent labels for protein microarrays" in Current Pharmacogenomics and Personalized Medicine, 2015 (in press).

Shah V G, Ray S, Karlsson R, **Prof. Srivastava S.** published a paper titled "Calibration-free concentration analysis of protein biomarkers in human serum using surface plasmon resonance." in Talanta, 2015 (in press).

Dove ES, **Prof. Srivastava S.**, et al., Özdemir V. published a paper titled "An Appeal to the Global Health Community for a Tripartite Innovation: An "Essential diagnostics list," "health in all Policies," and "See-Through 21st Century Science and Ethics"." in OMICS A Journal of Integrative Biology. 2015, (in press).

Syed P, Gupta S, Choudhary S, Pandala N G, Atak A, Richharia A, KP Manubhai, Zhu H, Epari S, Noronha S B, Moiyadi A, **Prof. Srivastava S.** published a paper titled "Autoantibody profiling of glioma serum samples to identify biomarkers using human proteome arrays" in Scientific Reports - Nature, 2015 (in press).

Gupta S, Reddy P J, Ray S, Atak A, Gollapalli K, Jain R, Shah G V, Ghantasala S, Kumar S, Pandala N G, Phapale P, Pandey V K, Zingde SM, **Prof. Srivastava S.** published a paper titled "Proteomics from Discovery to Function: Annual meeting of Proteomics Society India and International Conference" in OMICS A Journal of Integrative Biology, 2015, Vol. 19, Issue 6, pp. 329-331.

Patents (filed):

Syed P., Gupta S., Choudhary S., Goud NP., Atak A, Richharia A., Manubhai KP, Epari S., Noronha S., Moiyadi A., **Prof. Srivastava S.** filed a patent titled "Protein Autoantibody Biomarkers_For Gliomas". Indian Patent IPA No. 3028/MUM/2015, on August 10, 2015.

Shah VG., Ray S., **Prof. Srivastava S.** filed a patent titled "Label-free method for detection and quantification of protein biomarkers". IPA No. 2587/MUM/2015, on July 6, 2015

Appointments

Dr. Manjunath Meti, Department of Chemistry, has been appointed as Post Doctoral Fellow on June 1, 2015.



Dr. Meenakshi Sundarraman, Department of Energy Science and Engg., has been appointed as Post Doctoral Fellow on June 3, 2015.



Dr. Basavaprabhu, Department of Chemistry, has been appointed as Post Doctoral Fellow on June 10, 2015.



Dr. Mohan C. Mathpal, Department of Physics, has been appointed as Post Doctoral Fellow on June 12, 2015.



Dr. Nivedita Sharma, Department of Aerospace Engineering, has been appointed as Post Doctoral Fellow on June 15, 2015.



Dr. Angira Koch, Department of Chemistry, has been appointed as Post Doctoral Fellow on June 16, 2015.



Dr. Manu Vashishtha, Department of Chemical Engineering, has been appointed as Post Doctoral Fellow on June 23, 2015.



Dr. Jasmine K. Dhall, Department of Humanities & Social Sciences, has been appointed as Post Doctoral Fellow on June 24, 2015.



Dr. Tabish Alam, Department of Mechanical Engineering, has been appointed as Post Doctoral Fellow on June 25, 2015.



Prof. Sanjeev Chaudhari has been appointed as Head of Centre for Environmental Science and Engineering on July 1, 2015.



Dr. Jai D. More, Department of Physics, has been appointed as Post Doctoral Fellow on July 1, 2015.



Dr. Jyoti Singh, Department of Mathematics, has been appointed as Post Doctoral Fellow on August 3, 2015.



Shri. Bharatsingh S. Gusain, Messenger (SG), Accounts Section, retired after 33 years of service.



Dr. Alik S. Majumdar, Department of Earth Sciences, has been appointed as Post Doctoral Fellow on July 1, 2015.



Dr. Sudarshan Gurjar, Department of Mathematics, has been appointed as Assistant Professor on August 17, 2015.



Shri Pratap D. Soyaskar, Sr. Attdt, Department of Aerospace Engineering, retired after 30 years of service.



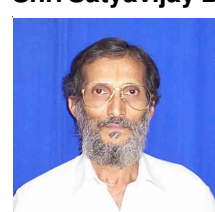
Dr. Priyanka Sett, Department of Physics, has been appointed as Post Doctoral Fellow on July 2, 2015.



NOTIFICATION

1. On joining to the post of Deputy Registrar on 26.6.2015, Shri K.V. Reghuthaman has taken over charge as Deputy Registrar (Admin II) on 24.8.2015.
2. On transfer, Shri K.K. Bajre has taken over charge as Deputy Registrar (Academic) w.e.f 24.8.2015.
3. On promotion, Shri H.S. Verma has joined duties as Deputy Registrar (Audit & Legal) w.e.f 24.8.2015.
4. On promotion, Shri. D.K. Sawalkar has joined duties as Deputy Registrar (Estate) w.e.f 10.8.2015.

Shri Satyavijay B. Chavan, Sr. Attdt, Dept. of Metallurgical Engineering Material Science, retired after 29 years of service.



Dr. Ganesh Samala, Department of Chemistry, has been appointed as Post Doctoral Fellow on July 2, 2015.



Shri Jaising S. Kamble, Attdt. (SG), Centre for Studies in Resource Engineering, retired after 36 years of service.



Dr. S. Shanmukharao Samatham, Department of Physics, has been appointed as Post Doctoral Fellow on July 14, 2015.



Shri Baburao Fattuji Tayade, Watchman (SG), Security Section, retired after 36 years of service.



Dr. Jahir A. Ahmed, Department of Physics, has been appointed as Post Doctoral Fellow on July 31, 2015.



Shri Dinu J. Waghmare, Jr. Tech. Supdt, Estate Office, retired after 37 years of service.



Ms. Daya R. Valodra, Cleaner (Sr.), Hospital, retired after 35 years of service.



Dr. Sagar Kolte, Department of Mathematics, has been appointed as Post Doctoral Fellow on August 3, 2015.



Shri Azadsingh F. Souda, Messenger (SG), Placement Office, retired after 33 years of service.



Ms. Mangu Mohan Solanki, Cleaner, Public Health Office, retired after 9 years of service.



Retirements in July 2015

Prof. N.B. Ballal, Professor, Department of Metallurgical Engineering and Material Science, retired after 35 years of service.



Ms. Baby Jose, Jr. Supdt, Department of Metallurgical Engineering Material Science, retired after 27 years of service.



Shri Somnath P. Sonawane, Attdt. (SG), Dept. of Chemistry, retired after 34 years of service.



Shri Rohidas D. Ingle, Helper (Sr.), Estate Office, retired after 35 years of service.



Shri Shivaji G. Nivadange, Watchman (SG), Security Section, retired after 39 years of service.



Shri Deorao B. Hiwarale, Watchman (SG), Accounts Section, retired after 34 years of service.



Shri Bhaskar S. Sawant, Watchman, Security Section, retired after 22 years of service.



Shri M.N. Raghavendra Rao, Manager, Telephone Exchange, retired after 35 years of service.



Shri Subray L. Kamath, Sr.Tech.Suptd, Department of Metallurgical Engineering Material Science, retired after 36 years of service.



Shri Gajanan K. Jadhav, Sr. Driver (Selection Grade), Administration Section, retired after 30 years of service.



Retirements on August, 2015

Shri Vivek Bhalchandra MAMDAPUR, Superintending Engineer, Estate Office, retired after 24 years of service.



Shri Sudhakar J. Samant, Sr. Messenger, Cash Section, retired after 30 years of service.



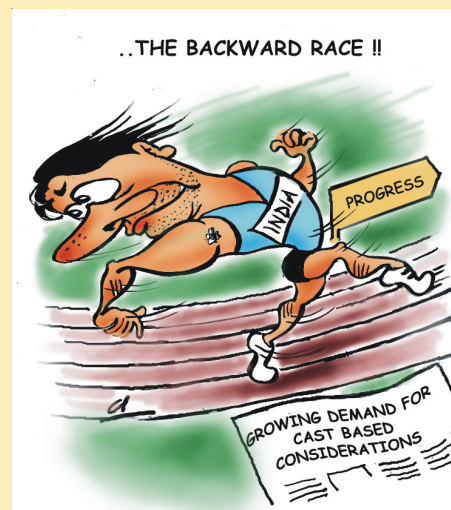
In the Wilderness



Photo Credit :
Mr. B. Nagarkar
Retired Staff, IIT Bombay

Salt'n Pepper

by Dr. Arun Inamdar



CEP courses scheduled during October - November 2015			
No.	Course Title	Course Coordinator / Department	Duration
1	Process Equipment Design	Prof. Moharir Arun Sadashiv, Chemical Engineering	October 1-2, 2015 (2 days)
2	Environmental Management of Pharmaceutical Industry	Prof. A.K. Dikshit, Center for Environmental Science & Engineering	October 5-9, 2015 (5 days)
3	Expo Info Design	Prof. B. A. Ravi Poovaiah, Industrial Design Centre	October 8-10, 2015 (3 days)
4	Line-Commutated Converter and Modular-Multilevel Converter Based HVDC Systems	Prof. Anil Kulkarni, Electrical Engineering	October 8-10, 2015 (3 days)
5	Advances in Cryocooler Technology	Prof. Milind Atrey, Mechanical Engineering	October 13-17, 2015 (5 days)
6	Solidification and Welding: Advances in Science & Technology (S.W.As.T)	Prof. Shyamprasad Karagadde / Prof. Sushil Mishra, Mechanical Engineering	October 28-31, 2015 (4 days)
7	Building Global CIO Competencies	Prof. S. Bhargava, School of Management	October 29-31, 2015 (3 days)
8	Energy Management	Prof. Rangan Banerjee, Energy Science & Engineering	November 23-27, 2015 (5 days)

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