



Campus diary

October 2015

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

Inauguration of IIT Bombay Research Park Applied Materials Joins IITB Research Park as Anchor Client



Prof. D.V. Khakhar, Director, IIT Bombay and Dr. Om Nalamasu, Senior VP and CTO, Applied Materials Inc. inaugurating the IITB Research Park.

The Research Park at Indian Institute of Technology Bombay (IIT Bombay) was inaugurated on October 22, 2015 in the presence of Prof. Devang Khakhar, Director, IIT Bombay, Mr. Om Nalamasu, CTO, Applied Materials, Inc., Prof. Abhay Karandikar, Professor-in-charge, IIT Bombay Research Park and many other dignitaries. As a significant step, IIT Bombay and Applied Materials announced that Applied will be the first anchor client of IITB's Research Park. The IIT Bombay Research Park will enable technology-focused companies to co-locate R&D assets at IIT Bombay, and thereby benefit from close interaction with faculty and student researchers, and from seamless access to labs, equipment and services.

At the event, Prof. Devang Khakhar, Director, IIT Bombay, said, "Applied Materials has been a valued partner of IIT Bombay for a decade and we welcome its decision to sign up as the first anchor client of IIT Bombay's Research

Park. I see it as a testament to the significant value that the Research Park can add to our existing collaborative research and innovation activities in the ESDM (Electronic Systems Design and Manufacturing) sector. Through IIT Bombay's Research Park we aim to enable deeper, as well as broader, engagements between industries in various R&D sectors with our faculty and students. It underscores our commitment to supporting such mutually beneficial academia-industry partnerships and I hope that this event will encourage many more companies to join hands with IIT Bombay's Research Park in the near future."

Dr. Om Nalamasu, Senior Vice President and Chief Technology Officer, Applied Materials, Inc. said, "The Applied Materials - IIT Bombay partnership combines Applied's leadership in materials engineering with IIT Bombay's research expertise to create one of the most comprehensive industry-academia collaborations in the world. It serves as a great benchmark of how a global innovation-focused company and a leading research university can work together to provide foundation skills for a developing industry. We are proud to be at the forefront of creating a strong ecosystem in India to support the growth of domestic semiconductor manufacturing."

Prof. Abhay Karandikar, the Professor-in-Charge of the IIT Bombay Research Park, observed: "We are very pleased to note that Applied Materials has announced it would be the first anchor client of IIT Bombay Research Park. We hope this will significantly enhance



Prof. D. V. Khakhar, Director, IIT Bombay, Dr. Om Nalamasu, Senior VP and CTO, Applied Materials Inc. and Prof. Abhay Karandikar, Professor-in-charge, IITB Research Park during the launch of the IITB Research Park.

the interactions that Applied Materials is already having with IIT Bombay faculty, students and research staff. IIT Bombay Research Park will provide a platform for innovations and cutting-edge research through collaborations with faculty and students. The park is envisaged to house 30 companies in its first phase on an area of two hundred fifty thousand sq. ft., eventually scaling to one million sq. ft. In subsequent phases. We are hopeful that more R&D companies will engage with IIT Bombay Research Park and help us take industry-academia interactions to a new level."

The event was attended by faculty students, and staff of IIT Bombay. Media was also present to cover the event.

Hon'ble HRD Minister Visits IIT Bombay Campus

Hon'ble Union Minister for Human Resource Development, Government of India, Smt. Smriti Z. Irani, inaugurated Hostel No. 10 on October 6, 2015 during her visit to IIT Bombay. After the Inauguration, she had an interaction with the Students.



Smt. Smriti Z. Irani, Hon'ble Union Minister for Human Resource Development, Government of India, Prof. D.V. Khakhar, Director, IIT Bombay at the inauguration of Hostel No. 10.

Meanwhile, she also visited the Advanced Machining Excellence Cell (AMEC) of National Centre for Aerospace Innovation and Research (NCAIR) and interacted with faculty members involved with the Centre.



Smt. Smriti Z. Irani, Hon'ble Union Minister for Human Resource Development, Government of India, Prof. D.V. Khakhar, Director, IITB and other functionaries at AMEC, NCAIR.

Vigilance Awareness Week Celebration at IIT Bombay



Prof. Devang V. Khakhar, Director, IIT Bombay administering pledge to the Institute functionaries and Heads of the academic units during Vigilance Awareness Week.

Vigilance Awareness Week was celebrated in the Institute from October 26 to 31, 2015. The theme of Vigilance Awareness Week this year was "Preventive Vigilance as a Tool of Good Governance". Preventive Vigilance is broadly described as a package of measures aimed at improving systems and procedures to reduce scope for discretion and eliminate corruption in an organization. A wider publicity to the observance of Vigilance Awareness Week was given by displaying banners at prime locations in the institute. The Director administered pledge to the functionaries of the Institute and Heads of the academic units. The Heads of academic and administrative units were also requested to observe Vigilance Awareness Week along with the pledge in their respective units.

As a part of the Vigilance Awareness Week, the Vigilance Cell of the institute organized an Essay Competition inviting participation of students and employees of the institute. A total of 35 entries were received from Students, Faculty, and Staff. The topic of the essay was “Promoting Ethics, Moral Values & Fighting Corruption: Role of Youth” for students, and “Promoting Ethics, Moral Values & Fighting Corruption: My Role” for the employees. The winners who come first, second and third in each category will be awarded with Rs. 10,000; Rs. 7,000; and Rs. 4,000 respectively.



Mrs. Sridevi D.S, Vice Principal of Campus School administering pledge to fellow colleagues.



Teachers and the Non-teaching staff of IIT Campus School and Junior Colleagues taking pledge.

Meanwhile, “Vigilance Awareness Week” was also observed in IIT Campus School & Jr. College. As a part of the programme teachers and all non-teaching staff assembled on the School Assembly Ground and shared their views about the theme of the Vigilance Awareness Week “Preventive Vigilance as tool of Good Governance” and took the pledge.

CEP Course on “Environmental Management of Pharmaceutical Industry”

A five days custom made CEP course on “Environmental Management of Pharmaceutical Industry” for officials from Andhra Pradesh Pollution Control Board (APPCB) was organized by Centre for Environment Science and Engineering (CESE) from October 5-9, 2015. The course was inaugurated on October 5, 2015 by Chief Environmental Officer, APPCB and the coordinator of the course Prof. A.K. Dikshit. Over 5 days, wide range of topics were covered, which were very intensive and delivered by the expert in that

area like the *Introduction and Environmental Profile of Pharmaceutical Industry* by Prof. Anil K Dikshit, IIT Bombay, *Policies and Legal Guidelines and Regulations for Pharmaceutical Industries* by Prof. Ramesh D Dod, MIT Pune etc. The course was attended by 21 senior level officers from Hyderabad head office, Tirupati, Vizag, Vijayawada, Kurnool and Eluru zonal offices of APPCB and five students from IIT Bombay. The course ended with certificate distribution and valedictory function on October 9, 2015

IIT Bombay team stood first in Summer School – Behavioral Modelling in Transportation Networks at University of Tokyo

Fourteenth behavior modelling summer school, organized in September 2015 by the Civil Engineering Department (Behaviour in network studies laboratory) at University of Tokyo, intended for graduate engineers and young researchers working in the fields of transportation planning, social infrastructure, architecture, urban planning, basic and specialized knowledge of discrete choice modeling, the summer school in its earlier version saw participation from universities across Japan. The summer school overlaid the concepts activity based travel behavior modeling through lectures given by professors from the participating universities. Prof. Arnab Jana (IIT Bombay), Prof. Giancalos Troncoso Parady (University of Tokyo), Makoto Chikaraishi (Hiroshima University), and Hideki Yaginuma (University of Tokyo) gave lectures in the English session. The keynote address was given by Prof. Masahisa Fujita (Kyoto University) on the role of diversity and culture in knowledge creation. The participating teams were provided with probe person data for trips conducted in the Tokyo metropolitan region. The teams were expected to conduct basic analysis before reaching Tokyo and finish estimating the model by simulating policy decisions during the course of the summer school.

The team from IIT Bombay mentored by Prof. Arnab Jana had four participating student members, Rohan Joshi (Civil Engineering), Varun Varghese (CUSE), Naveen Krishna Alla (CUSE), and Sayantani Sarkar (CUSE). The team decided to conduct a cohort based modal choice analysis for the Tokyo metropolitan region, identifying areas which are public transport and non-motorized transport friendly. In the process, the team created mixed logit (MXL) and multinomial logit (MNL) models predicting the probabilities for mode choice, with travel and age as predictor variables. The predicted probabilities were spatially plotted to create statistically significant hotspot clusters, identifying areas with concentrated use of different type of modes. The same were plotted against the existing contours and slope to see its variation against the terrain. Finally, a policy analysis was conducted by creating prediction success and elasticity tables that elaborated the correctness of the predicted model. The team from IIT Bombay was awarded with the Davis Prize for excellence in behavior modeling at the summer school by Prof. Yamamoto Toshiyuki (Nagoya University). The team also secured an overall 1st position at the summer school.

Institute Colloquium /
Lectures & Seminars



Dr. Sunita Narain, Director General, Centre for Science and Environment, New Delhi, delivered the third Annual Girish Sant Memorial Lecture on “The energy question for India? Clean energy or energy access?” on October 9, 2015.



Dr. Srikanta Mishra, Institute Fellow and Senior Research Leader for Energy & Environment, Battelle Memorial Institute, United States, delivered an Institute Colloquium on “Shale Gas Development: Energy Supply Game Changer, or Environmental Quagmire?” on October 13, 2015.



Prof. Avi Wigderson, School of Mathematics, Institute for Advanced Study, Princeton, delivered the third Annual - Indira Foundation Distinguished Lecture on “The “P vs. NP” problem: Efficient computation, Internet security, and the limits to human knowledge” on October 28, 2015.

Departmental
Lectures

Department of Humanities and
Social Sciences

Dr. Paramita Dutta, Rammohan College, Kolkata, delivered a talk in a seminar on “World Drama in Bengal: The Nandikar Way” on October 28, 2015.

Computer Science and
Engineering

Mr. Doug Carucci, JP Morgan Chase & Co, delivered a talk on “Technology Solutions for Trading in Global Markets” on October 7, 2015.

Climate Studies

Dr. Bimal K. Bhattacharya, Crop Inventory and Agro-ecosystem Division, Space Applications Centre, ISRO, Ahmedabad, delivered a talk in a seminar on “Land – Atmosphere Interactions over Indian Vegetative Systems through Energy and Mass Exchange” on October 14, 2015.

Centre For Technology
Alternative in Rural Areas
(CTARA)

Mr. Kunjan Gandhi, Gram Power, an energy technology company, delivered a talk in a seminar on

“Energizing Rural India, Leveraging advanced technology” on October 8, 2015.

Prof. M Rajivlochan, Panjab University, delivered a talk in a seminar on “Agrarian Crisis and Farmers’ Suicide: Dealing with Historical Transformations.” on October 26, 2015.

SJM School of Management

Prof. R. Vaidyanathan, IIM, Bangalore, delivered a talk on “Role of India in the new world order” on October 27, 2015.

Blood Donation Camp
at IIT Bombay

SAMWAD - Student team of IIT Bombay and Sthaniya Lokadhikar Samiti with the help of KEM Hospital Blood Bank organized a Blood Donation Camp on October 10, 2015. Smt. Snehal Ambekar, Mayor, Mumbai visited the blood donation camp to encourage the participants. The drive witnessed participation from Faculty members, Student and Staff community of the Institute. Residents of IIT Bombay campus also participated in the camp and contributed towards this noble cause. In all, around 400 people participated in the event and donated their blood.

Conference /
Workshops

‘Protolith 2015’

Department of Earth Sciences, organized a National level Technical Symposium “Protolith 2015” during October 9 – 11, 2015. The symposium aimed to showcase research work going on in the Department of Earth Sciences. It also provided an adequate opportunity for students to interact and connect with Industry professionals. A total of 12 workshops and seminars on different topics by eminent speakers were conducted over the period of three days.

Awards and Distinctions

Prof. C.P. Rao, Department of Chemistry has been elected for the fellowship of the Indian National Science Academy.

Dr. K. Mahesh, Project Research Scientist, Cell for Indian Science and Technology in Sanskrit, Department of Humanities and Social Sciences has been chosen for the prestigious “Young Historian of Science Award” by Indian National Science Academy, New Delhi in recognition of his research contributions to the field of History of Science.

2015 Global Innovation Award Winner

Mr. Manju Naika, Ass. Librarian, Journal and Computer Application Section, Central Library, IIT Bombay was awarded Turnitin Student Engagement Award winner for Asia. Mr. Naika was awarded with the prestigious award for his efforts in creating awareness about plagiarism and Turnitin at IIT Bombay by Turnitin, USA.

Publications

Prof. Sanjeeva Srivastava, Department of Biosciences and Bioengineering, served as the Guest Editor for Volume 127, Part A, Pages 1-222, Special Issue “Proteomics in India”: Gazing Forward while Reflecting on the Lessons Learned in Global Proteomics in Journal of Proteomics.

Errata

In the earlier issue of Campus diary, on page number 4, the caption for first photo under ‘IIT Bombay Review Paper Award for the Year 2014’ was misprinted as ‘Prof. Sanjeeva Srivastava, Department of Biosciences & Bioengineering’.

It should be read as ‘*Prof. Dulal Panda, Department of Biosciences & Bioengineering, receiving the award on behalf of Prof. Sanjeeva Srivastava, Biosciences & Bioengineering*’.

Campus diary regrets the error.

Appointments

Dr. Namrata Singh, Department of Chemistry, has been appointed as Post Doctoral Fellow on Oct. 1, 2015.



Dr. Ankita Srivastava, Department of Bio. Sci and Bio. Engg. has been appointed as Post Doctoral Fellow on Oct. 1, 2015



Dr. Ashish Bhateja, Department of Chemical Engineering, has been appointed as Post Doctoral Fellow on Oct. 5, 2015.



Dr. Namita Behera, Department of Electrical Engineering, has been appointed as Post Doctoral Fellow on October 5, 2015.



Dr. Nikhil Balaji, Department of Computer Sciences and Engineering, has been appointed as Post Doctoral Fellow on October 7, 2015.



Dr. Aga Shahee, Department of Physics, has been appointed as Post Doctoral Fellow on October 14, 2015.



Dr. Bhanu P. Joshi, Department of Physics, has been appointed as Post Doctoral Fellow on October 15, 2015.



Retirements in October 2015

Shri Vikas G Pawar, Sr. Assistant Engineer, Estate Office, retired after 32 years of service.



Shri M.K. Mohandas, Sr.Tech. Supdt, Electrical Maintenance Division, retired after 34 years of service.



Shri Radhyesham J. Tiwari, Library Attdt. (SG), Central Library, retired after 37 years of service.



Shri Ramawadh I. Singh, Sr. Helper, Dept. of Metallurgical Engineering and Material Science, retired after 36 years of service.



CEP courses scheduled during December 2015

No.	Course Title	Course Coordinator / Department	Duration
1.	Ground Water and Surface Water Management	Prof. T.I. Eldho, Prof. A.K. Rastogi, Department of Civil Engineering	December 7-11, 2015 (5 days)
2.	Piping Engineering	Prof. A.S. Moharir, Department of Chemical Engineering	December 9-19, 2015 (11 days)
3.	Building Global Cio Competencies	Prof. S. Bhargava, SJM School of Management	December 10-12, 2015 (3 days)

 In the Wilderness



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

Sait'n Pepper
by Dr. Arun Inamdar



The cartoon shows a man with a long nose and a mustache, wearing a white shirt and shorts, standing in a garden. He is holding a hose and watering a plant. A speech bubble above him says "CONSERVATION!". In the background, there are buildings and a fountain. In the foreground, there is a sign that says "CAMPUS CRIB" and another sign that says "OUTDOOR TAPS CLOSED TO STOP WATER WASTAGE".

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BOOK POST

