

Vice President Biden Visits IIT Bombay



[L-R : U.S. Vice President Joe Biden, Prof. D. V. Khakhar, Director, IITBombay, Prof. H. Pandalai, Dy. Director (FEA), Prof. S. Choudhuri, Dy. Director (AIA), Prof. Urjit Yajnik, Dean (SA), Prof. Ravi Sinha, Dean (ACR)]

The U.S. Vice President Joe Biden visited IIT Bombay on July 25, 2013. Prof. Devang Khakhar, Director, along with his colleagues, welcomed Mr. Biden to the campus.

The main highlights of his visit were the closed door interaction with select women Ph.D. students of the institute and a tour of the IITB Nanofabrication Facility (IITBNF) in the Electrical Engineering (EE) department and the Geochemistry and Geochronology labs in the Earth Sciences department.

Aditi Kothiyal, a Ph.D. student in the IDP on Educational Technology was chosen to serve as his tour guide and walk him through the labs. The tour began from VMCC along the infinite corridor where the first stop was the IITBNF, which was introduced to Mr. Biden as a world class facility. He was given an overview of the research happening at the facility on nanoelectronic materials, devices and systems.

After donning lab shoes, they went into the Micro-Lab 2 where research students of the EE department were waiting to show him the equipment used in their research and explain the research problems they were working on. Sanchar Acharya, a graduate student, first showed Mr. Biden a completely home-built Chemical Vapour Deposition tool and briefly explained its operation. Then Rajul took over and presented an overview of their research in the area of nano-sensors. She showed him the structure of one such nano-sensor under a microscope. This made a visible impression on Mr. Biden. Then, Nehul Gullaiya, another graduate student, showed him images of other such nano-sensors built in the lab for various purposes, including cardiac monitoring and detection of explosives and IEDs. Mr. Biden was especially interested in the latter application and listened patiently as Nehul explained the details of how the sensor operates. He asked several questions and had a friendly interaction with the students present there.

From Micro Lab 2, Aditi led Mr. Biden out into the corridor outside the clean room. He was given a tour of the research experiments, undertaken in the clean room, aimed at developing advanced logic and memory devices, solar photovoltaics, etc. At the other end of the corridor, Mr. Biden very graciously shook hands with the support staff after introducing himself to them. He then waved

and smiled to the students working inside the clean room and headed back out. On the way out, Aditi described the Indian Nanoelectronics User Program (INUP). Mr. Biden was fascinated to hear that this Department of Electronics and Information Technology-funded programme enables students and researchers from all over the country to use the facilities of IITBNF at zero cost. During this tour, Mr Biden got a compelling snapshot of IITBNF where students and researchers from all over India as well as international organizations get hands-on access to a state-of-the-art nanoelectronics research facility for fabricating tiny devices which serve as instruments of fundamental research as well as technological advancement in areas of computation and communication, healthcare and security.

Once outside, Mr. Biden met the Indian Ambassador to the U.S. Nirupama Rao and the U.S. Ambassador to India Nancy Powell and excitedly described to them the nano-sensor applications that he had heard about inside, focusing particularly on the details of the IED sensors.

Symposium on Ion Chromatography

A one-day *Symposium on Ion Chromatography* was organised by the Department of Chemistry on June 29, 2013. It was co-sponsored by the All-India Chemistry Teachers Association, the Indian Chemical Society of

Bombay Branch, and the Metrohm India Ltd. with Chromatographics Society of India.

There were seven lectures in this field. People from Dr. Reddy's Laboratory (Bangalore), Chennai Instruments, and Analytical Instruments in Bombay spoke at the symposium. There were also two speakers each from Bhabha Atomic Research Centre and the Center for Environmental Science and Engineering of IIT Bombay. In all there were more than 100 registered delegates from colleges, industry and postgraduates of the University of Mumbai.

The symposium was inaugurated by Dr. Tulsi Mukherji, former Director, Chemical Group, BARC. The Chromatographic Society of India, Chennai, felicitated Prof. S.M. Khopkar of the Department of Chemistry, IIT Bombay, with Lifetime Achievement Award for his significant contribution in the area of Ion Exchange, Solvent Extraction and Environmental Monitoring. This was the third such award received by Prof. Khopkar. (Earlier, Indian Chemical Society, Calcutta, and the Indian council of Chemists, Agra, had felicitated him with Lifetime Achievement Gold Award, with citation.) The felicitation programme, held at IRCC Auditorium, was attended by as many as 300 delegates. A Souvenir was also brought out on the occasion highlighting the abstracts of various lectures delivered at the symposium.

Awards and Distinctions

Prof. Prasenjit Ghosh, Department of Chemistry, has been chosen by the Chemical Research Society of India to receive the “CRSI Bronze Medal” for his significant contribution to Chemistry.

Prof. Shireesh Kedare, Department of Energy Science and Engineering, has won the prestigious “Intersolar Award, 2013” – under the Solar Thermal Technologies category – for Clique Solar’s patented “ARUN 100 Solar Concentrator System”.

Prof. Debabrata Maiti, Department of Chemistry, has been selected as a “Young Scientist” of the Indian Academy of Sciences.

Prof. I.N.N. Namboothiri, Department of Chemistry, has been chosen by the Chemical Research Society of India to receive the CRSI Bronze Medal for his special contribution to Chemistry.

Prof. G Rajaraman, Department of Chemistry, has been honoured with the “INSA Medal for Young Scientists”.

Prof. Rohit Srivastava, Department of Biosciences and Bioengineering, has been bestowed upon the “Senior IYBA Award” by DBT.

Prof. Nina Sabnani, Industrial Design Centre, received the “Best Animation Film Award” for her film *Bemata*, and a “Special Mention” for her film *BaatWahiHai* at the Bangalore Short Film Festival–2013.

Prof. Nina Sabnani also won the “Best Short Animation Film Award” (at national level) and the “Best Animation Film Jury’s Award” for her film *BaatWahiHai* at the Malabar Short Film Festival–2013.

Publications/ Presentations

Department of Biosciences and Bioengineering

Ray, S., Moiyadi, A., and **Srivastava, S.**, “Epidemiology: Biorepositories for Cancer Research in Developing Countries,” *Nature Reviews Clinical Oncology*, 2013, published by Nature Publishing Group [doi: 10.1038/nrclinonc.2013.119].

Department of Civil Engineering

Dharamveer Singh, “Emerging Technologies and Test Methods for Construction of Sustainable Pavements in Cold Regions,” *Tech Seminar*, Border Roads Organization, GREF Center, Pune, July 18-19, 2013.

“Emerging Green Technologies for Sustainable Construction of Highways – Plan to Move Forward,” *Infrastructure Outlook–2013*, organised by Bricca Consulting, The Hotel Lalit, Mumbai, July 1-2, 2013.

Department of Humanities and Social Sciences

Bhole, L.M., *Gandhi’s Hind Swaraj – A new Paradigm*, Shipra Publications, Delhi, August 2013.

Industrial Design Centre

Prof. Nina Sabnani, Industrial Design Centre, was invited by the Royal Anthropological Institute of Great Britain to present a paper titled: “Animated Ethnography: Embroidered Kutch Migration Narratives” at their seminar *New Observations* in Edinburgh, Scotland [http://www.san.ed.ac.uk/scottish_training_in_anthropological_research_star/2013_rai_film_festival/new_observations], and to conduct a workshop *Animated Ethnography: Participatory Approaches with Craft Artisans* for their summer school at the School of Social and Political Science, University of Edinburgh, between June 13-17, 2013.

She also presented a paper titled: “...Seismic Stitches animated documentary and participatory aesthetics amongst Kutch embroiderers” at the *Documentary Now Conference* in London [<http://documentarynow.wordpress.com/programme-2013/>] on June 19, 2013.

Institute Colloquia/ Lectures & Seminars

Prof. Angus Dawson, University of Birmingham, UK, delivered a seminar on “Trust, Public Trust and Bioethics” at the Department of Humanities and Social Sciences, July 26, 2013.

Prof. Ajay K. Prasad, Department of Mechanical Engineering, and Director, Center for Fuel Cell Research, University of Delaware, delivered a talk on “Single Cell and System-level Research with PEM Fuel Cells”

at the Department of Energy Science and Engineering, July 31, 2013.

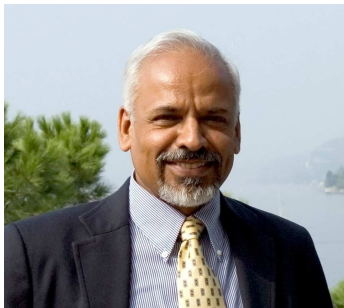
Dr. Lakshminarayana Rao, Pyrogenesis Canada Inc., Montreal, Canada, delivered a talk on “Thermal Plasma Technology for Renewable Energy Production, Waste Destruction and Advanced Materials Production” at the Department of Energy Science and Engineering, July 9, 2013.

Dr. Rajiv Sarin, Director,



Advanced Centre for Treatment Research & Education in Cancer, Tata Memorial Centre, Mumbai, spoke on “Challenges in T2 Translational Research: Bench to Bedside to Community!” at an Institute Colloquium, July 26, 2013.

Prof. K.R. Sreenivasan,



President, Polytechnic Institute of New York University, Dean of Engineering, New York University, spoke on “Convection in the Sun” at an Institute Lecture, July 15, 2013.

Faculty News

Prof. Krishnendu Sinha, Department of Aerospace Engineering, along with his Ph.D. student, participated in a four-week “Summer Research Programme” at the Technical University of Munich from 15 July to 9 August 2013.

Prof. T.I. Eldho and Prof. Y.M. Desai, Department of Civil Engineering, conducted a five-day QIP/CEP course on “Finite Element Method and Applications in Civil Engineering” during July 1-5, 2013. About 50 participants from various engineering colleges and industries attended the course.

Prof. RAAJ Ramsankaran and Prof. T.I. Eldho, Department of Civil Engineering, conducted a five-day QIP/CEP course on “Water Resources Management Studies using Geospatial Techniques and Numerical modeling” during July 8-12, 2013. About 40 participants from various engineering colleges and industries attended the course.

Prof. Neelima Talwar, Department of Humanities and Social Sciences : The lecture video course titled: “Understanding Creativity and Creative Writing” was released on July 24, 2013, as a NPTEL course (can be viewed on <http://www.nptel.iitm.ac.in> or YouTube).

Student News

The Ph.D.(Physics) thesis of **Ms. Padmaja Patnaik**, chosen for publication by LAP LAMBERT Academic Publishing, has been published on July 17, 2013, as a book *Study of Defect States in*

Silicon Carbide, co-authored with her guide **Prof. Gautam Mukhopadhyay** and co-guide **Prof. Prabhakar Singh** of the Department of Physics.

Appointments

Prof. D. Bahadur, Department of Metallurgical Engineering and Materials Science, has been appointed as an Emeritus Fellow for a period of two years with effect from July 1, 2013.



Prof. Manasa R. Behera, Department of Civil Eng., has been appointed as Assistant Professor (on contractual basis) for a period of three years with effect from July 10, 2013.



Prof. D. Chandrasekharam, Department of Earth Sciences, has been appointed as an Emeritus Fellow for a period of two years with effect from July 1, 2013.



Prof. Dipan K. Ghosh, Department of Physics, has been appointed as an Emeritus Fellow for a period of two years with effect from July 3, 2013.



Shri P. Kumaresan, Industrial Design Centre, has been appointed



as Assistant Professor on July 24, 2013.

Prof. D.B. Phatak, Dept. of Computer Science and Engineering, has been appointed as an Emeritus Fellow for a period of three years with effect from July 1, 2013.



Prof. Ajit V. Rajwade, Department of Computer Science and Engineering, has been appointed as Assistant Professor on July 1, 2013.



Prof. K. Ramachandran, Industrial Design Centre, has been appointed as an Emeritus Fellow for a period of three years with effect from July 2, 2013.



Prof. A. Ramanathan, Department of Humanities and Social Sciences, has been appointed as an Emeritus Fellow for a period of three years with effect from July 1, 2013.



Prof. E.P. Rao, Department of Civil Engg., has been appointed as an Emeritus Fellow for a period of three years with effect from July 1, 2013.



Prof. K. Gopal Rao, Dept of Civil Engg., has been appointed as Adjunct Professor for a period of one year with effect from July 22, 2013.



Prof. N. L. Sarada, Department of Computer Science and Engineering, has been appointed as an Emeritus Fellow for a period of three years with effect from July 1, 2013.



Prof. Shobha Shukla, Department of Metallurgical Engineering and Materials Science, has been appointed as Assistant Professor on July 1, 2013.

Dr. Radhendushka Srivastava, Department of Mathematics, has been appointed as Assistant Professor (on contractual basis) for a period of three years with effect from July 31, 2013.



Prof. N. N. Viswanathan, Department of Metallurgical Engineering and Material Science, has been appointed as Professor on June 12, 2013.



Retirements on July 31, 2013

Prof. J. B. Doshi, Professor, Department of Mechanical Engineering, retired after 25 years of service.



Prof. S.K. Maiti, Professor, Department of Mechanical Engineering, retired after 38 years of service.



Shri Arjun Mahto, Sr. Hindi Officer, Hindi Cell, retired after 24 years of service.



Ms. Leelawati T. Wathore, Superintendent, Academic Section, retired after 30 years of service.



Shri Babu Gaikwad, Sr. Helper, Estate Office, retired after 33 years of service.



Smt. Kasturibai R. Chavan, Cleaner, Public Health Office, retired after eight years of service.



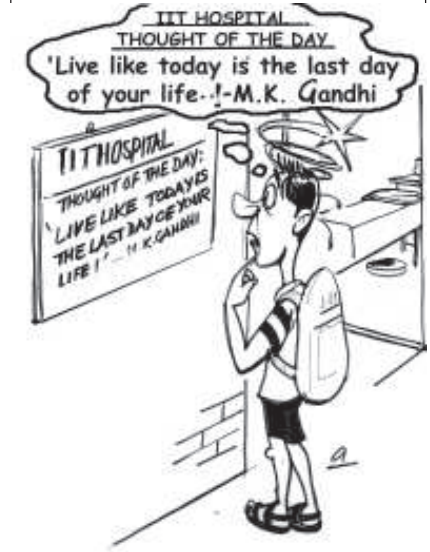
In the Wilderness



by Mr. C.P. Joglekar

Salt'n Pepper

by Dr. Arun Inamdar



CEP courses scheduled during August - September, 2013

No.	Course Title	Course Coordinator	Department	Duration
1	Wavelets, Multirate Processing and Applications	Prof. Vikram M. Gadre	Electrical Engg.	August 1, 2013
2	Air Separation Unit Processes and Design Aspects	Prof. Milind Atray	Mechanical Engg.	August 5, 2013
3	Technical Report Writing	Prof. Sandip Roy	Chemical Engg.	August 12, 2013
4	Problem Solving and Opportunity Creation using TRIZ Innovation	Prof. P.R. Apte	Electrical Engg.	August 21, 2013
5	EXPOCD	Prof. Ravi Poovaiah	Industrial Design Centre	August 28-30, 2013
6	C-Si Solar Cells and Modules: Theory, Fabrication and Characterization	Prof. Anil Kottantharayil	Electrical Engg.	September 11, 2013
7	Machinery Vibration and Noise	Prof. D.N. Manik	Mechanical Engg.	September 25, 2013

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BOOK POST

