



Rhythm

The Newsletter

Indian Institute of Technology Bhubaneswar

From Director's Desk

It gives me immense pleasure to inform that the President of India, Shri Pranab Mukherjee delivered the Convocation address at the second Annual Convocation of the Institute on 7 September 2013 as the Chief Guest. Dr. S. C. Jamir, Governor of Odisha and Shri M. Mohanty, Minister of Tourism, Government of Odisha also graced the event as guests of honour. It was a momentous occasion for the Institute.

It is heartening to know that the Institute is progressing well despite the troubles that a new establishment faces in general during its course of development. The construction of the Main Building, various Schools, laboratory complexes, hostels, guest house, shopping centre are progressing, while that of roads and the drainage systems are nearly done. The institute plans to shift to the new campus in a phase-wise manner.

We are starting new programs like B. Tech. (Hons.) in Metallurgical and Materials Engineering, Joint M. Tech. - Ph. D. in Power System Engineering and Joint M. Sc. - Ph. D. in Atmospheric and Ocean Sciences.

I am also happy to note that the students, faculty members and the staff are moving forward to accomplish the vision and mission with which the Institute set out on its journey some five years back. It has created an ambience of bonding through equity, trust and mutual respect.

Let us look forward to another fruitful year as this year comes to a close.

Prof. Madhusudan Chakraborty

Director, IIT Bhubaneswar

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Outreach

Convocation 2013



"IIT Bhubaneswar has also responded positively to our country's need to have globally competitive but locally relevant engineering institutes."

The Second Annual Convocation of the Institute was held on Saturday, 7 September 2013. The President of India, Shri Pranab Mukherjee graced the occasion as the Chief Guest and delivered the Convocation Address wherein he emphasized that foremost duty of all our universities and engineering institutions is to put research at the forefront of their academic efforts. He lauded the Institute and its efforts by acknowledging that "IIT Bhubaneswar is one of the eight new IITs established during the previous

Five Year Plan period” and that “It has spiritedly overcome the hurdles that are associated with a nascent academic institution. He further stated that “IIT Bhubaneswar has also responded positively to our country’s need to have globally competitive but locally relevant engineering institutes.”

Professor Madhusudan Chakraborty, Director in his address described the 2nd Convocation as a auspicious moment for the Institute and recounted the wonderful and challenging journey of the last five years during which the Institute grew steadily and surely in its mission to become globally competitive and locally relevant. He also presented the future strides that the Institute proposes to take.

One Hundred three (103) students were awarded Bachelor of Technology (Honours) degree and two Ph. D. degrees were conferred on Shri Pyari Mohan Pradhan and Shri Satyasai Jagannath Nanda of School of Electrical Sciences. Medals and prizes in different categories were also awarded to eight students.

Shri Vemireddy Hari of the School of Mechanical Sciences was awarded the President’s Gold Medal for the best academic performance among the outgoing B. Tech. (Hons.) students and also the Institute Silver Medal for best academic performance among the outgoing B. Tech. (Hons.) students in Mechanical Engineering.

Shri Biswajit Sahoo received the Institute Silver Medal for best academic performance among the outgoing B. Tech. (Hons.) students in Electrical Engineering. Shri Tanzeel Ahmed received the Institute Silver Medal for best academic performance among the outgoing B. Tech. (Hons.) students in Civil Engineering.

Shri Biswajit Sahoo, School of Electrical Sciences, Ms. Rongali Madhavi, School of Infrastructure and Shri Shikhar Srestha of School of Mechanical Sciences were awarded the Institute Proficiency Prizes for the best project work in their respective disciplines. Shri Arnav Acharyya and Shri K. Krishna Chaitanya were awarded Tejwasi Memorial Award for the School of

Electrical Sciences and Shri Shikhar Srestha was awarded Dinesh Memorial Award for the School of Mechanical Sciences.

Ms. Prashansa of School of Infrastructure was awarded Prof. P. Rama Rao Award and Shri Vemireddy Hari of School of Mechanical Sciences was awarded Dr. K. Kasturirangan Award for being the best outgoing lady student and best outgoing student, respectively.

The Doctor of Science (*Honoris Causa*) was conferred on three internationally acclaimed professionals of eminence - Prof. Asit K. Biswas, President of Third World Centre for Water Resources Management, Mexico and recipient of the prestigious Stockholm Water Prize; Professor U. R. Rao, renowned space scientist and Prof. Lord S. Kumar Bhattacharyya, founder of the internationally reputed Warwick Manufacturing Group of University of Warwick, UK.

Addressing the students at the Convocation, The President of India, Shri Pranab Mukherjee, blessed them by saying that as future nation builders of the country they should *“Learn to be a team player. Develop tolerance for multiple viewpoints. Be humble. Respect and understand your colleagues. Make truth, knowledge and hard work your partners in life. Knowledge is limitless. Keep your mind always open to gather more knowledge”*.

Dr. S. C. Jamir, Governor of Odisha and Shri M. Mohanty, Minister of Tourism, Government of Odisha also graced the event as Guests of Honour. Shri S. K. Roongta, Chairman, Board of Governors proposed the vote of thanks and presented mementoes to the Chief Guest and Guests of Honour. The occasion was graced by many other distinguished dignitaries and Members of the Board of Governors, proud parents and well-wishers. It was the dedication and tireless effort of the staff, students and faculty members which enabled smooth conduction of the Convocation and made it a grand success.

IIT Bhubaneswar awarded Outstanding Engineering Institute (EAST) 2013

The Institute has been awarded the **Dainik Bhaskar National Education Leadership Award for Outstanding Engineering Institute (EAST) 2013**. Prof. V. R. Pedireddi, Dean (SRIC) received the award on behalf of the Institute on 23 October 2013 in the function held at Taj Lands End, Mumbai.

IIT Bhubaneswar Now a Member of Belle and Belle-II

The Institute became a part of Belle and Belle-II experiments, located at KEK, Tsukuba, Japan in July, 2013. The membership was initiated by Dr. S. Bahinipati. Belle is an international collaboration from 16 countries/regions, including India. Belle-II is the upgrade of Belle experiment. Belle has already established itself as a world leader in the area of charge-conjugation-parity (CP)-violation measurements. Its results, along with that of BaBar at SLAC, U.S.A. led to the award of Nobel Prize in Physics in 2008 to Kobayashi and Maskawa for their work on the explanation of the origin of CP violation.



2nd Annual Convocation 2013 Indian Institute of Technology Bhubaneswar



Workshop on “Application of New Materials and Technologies in Rural Roads”



The School of Infrastructure, organised a Workshop on “Application of New Materials and Technologies in Rural Roads” from 13 -15 September 2013. The programme was sponsored by National Rural Roads Development Agency (NRRDA) and Ministry of Rural Development, Government of India. The programme focused on the use of non-conventional materials, local and waste materials, new materials and new technologies in the construction of rural roads. Thirty engineers in the ranks of Executive Engineer and Assistant Engineer from the Rural Works Departments of the states of Odisha and Jharkhand participated in the workshop. Highly interactive lectures were delivered by eminent experts from IIT Bhubaneswar, IIT Kharagpur, NIT Rourkela and experts from the industry.

Faculty Activity

- Prof. S. Tripathy, Deputy Director and Head, School of Earth, Ocean and Climate Sciences has been elected as Fellow of The National Academy of Sciences.
- The School of Basic Sciences started a new program from July, 2013- Joint M.Sc.-Ph.D. Program in the discipline of Physics, Chemistry and Mathematics.
- Dr. R. K. Singh has participated as a shipboard scientist in the Integrated Ocean Drilling Program Expedition 346 (Asian Monsoon) representing India.
- Dr. S. Pattnaik delivered a lecture at “Indo-French Seminar on Atmospheric Sciences” during 3-5 October 2013, New Delhi, jointly organized by Indo-French Centre for the Promotion of Advanced Research and Ministry of Earth Sciences, Govt. of India.
- Dr. R. Jha was the visiting Scientist at TU Berlin, Germany during June-July 2013
- Prof. S.Roy visited Regensburg, Germany during 6-10th October 2013 to present a paper titled “From Bimetallic Catalysts to Multimetallic Nano-Scale Catalysts: A proposal to INDIGO” in the INDIGO PhD Research conference and intensive course. He also visited Budapest, Hungary during 13-15 October 2013 to present a paper on “Greening the Friedel-Crafts Alkylation Frontier: An Approach via Ir-Sn & Pd-Sn Bimetallic Catalysis” in the 1st EuChemS Congress on Green and Sustainable Chemistry.

Visits Abroad

- Dr. TVS Sekhar was invited to teach one summer course (Computational Fluid Dynamics) at University of Massachusetts Dartmouth, USA from 8 June 2013 to 6 August 2013
- Dr. A.K. Ojha presented a paper entitled «Multi-Objective Geometric programming problem using epsilon constraint method» at the Annual Meeting of INFORMS-2013 from 3-12 October 2013 in Minneapolis, Minnesota, USA
- Dr. T. Nayak visited the Abdus Salam International Centre for Theoretical Physics, Italy during June-July, 2013

Awards

- Dr. Rajan Jha, Assistant Professor of Physics from School of Basic Sciences has been awarded and selected as an Associate of Indian Academy Of Sciences, Bangalore.
- Dr. R. K. Singh was awarded Mani Shankar Shukla Gold Medal from the Paleontological Society of India for his outstanding contributions in the field of micropaleontology for the year 2012.
- Dr. I. S. Sen was awarded INSPIRE Faculty Award from Department of Science and Technology, India.

New Faculty



Dr. Anasuya Roy Chowdhury joined the School of Basic Sciences as an Assistant Professor on 1 July 2013. Her area of research is Biochemistry.



Prof. Rabindra Kumar Panda joined the School of Earth, Ocean & Climate Sciences as a Professor on 28 August 2013. His areas of research are Hydrology, Watershed Management, Rainwater Management, Water Quality Issues, and Agro-meteorology.



Dr. M. Sabarimalai Manikandan joined the School of Electrical Sciences as an Assistant Professor on 12 July 2013. His areas of research are Signal Processing, Compressive Sensing, Wearable Healthcare Monitoring, Affective Computing and Multimodal Mixed Reality Systems.



Dr. Debadatta Swain joined the School of Earth, Ocean & Climate Sciences as an Assistant Professor on 2 September 2013. His areas of research are Satellite & Physical Oceanography, Ocean-Atmosphere Interactions & Modeling, and Atmospheric Dynamics.



Dr. Vinoj. V. joined the School of Earth, Ocean & Climate Sciences as an Assistant Professor on 29 July 2013. His areas of research are Aerosol Cloud Climate Interaction, Satellite Remote Sensing, Field Measurements, Monsoon and Climate Change, Climate Modeling.



Dr. Padmalochan Bera joined the School of Electrical Sciences as an Assistant Professor on 23 September 2013. His areas of research are Network Security, Security Analytics of Cyber-Physical Systems (Smart Grid AMI, Vehicular Communication Network), Enterprise Cloud Security, Software Testing and Verification.



Prof. Ganapati Panda joined the School of Electrical Sciences as a Visiting Professor on 1 August 2013.



Dr. Goutam Mondal joined the School of Infrastructure as a Visiting Faculty on 3 October 2013. His areas of research are Earthquake Engineering; Structural Dynamics; Soil-Structure Interaction; Seismic Analysis of Bridge.



Dr. Dibakar Ghosal joined the Earth, Ocean & Climate Sciences as a Visiting Faculty 22 August 2013. His area of research is Marine Geophysics.

Staff

Mr. Abhishek Das joined the Engineering Cell as Junior Engineer (Electrical) on 16 September 2013.