

## Music Society



The annual Music Society Productions (spring) conducted this March, turned out to be one of the most celebrated performance by the society members. Starting the three hour ride with an instrumental performance and bringing to the audience some of the greatest soft and hard rock hits, the society members showed their skills of handling the instruments and entertaining the audience. The performances were given mostly by fourth year B.Tech students who were about to leave the institute in a few months. They performed and celebrated the event and took away memories to be cherished lifelong. Apart from the society members, the audience comprising of students from every stream enjoyed the event. Classical performances and instrumentals were highly appreciable. This event marked the end of an era as the senior most members of the society performed for the last time. All in all the event was enjoyable and the efforts put in, are to be appreciated.

## Dramatics Society



Dramatics Society ,the fourth wall performed a street play on “Human Trafficking” on 9 April 2014 and converted the same street play to a stage play for a workshop “Inspiring change in Wo(men)” conducted by Women's Grievance Redressal Committee, IIT Bhubaneswar. Both the plays addressed a very serious issue which is generally ignored while discussing major social issues. The play started with a humorous note and suddenly the audience found themselves getting serious. The plays created an air of seriousness among the audience, making them feel the pain faced by the victims of human trafficking.

## Independence Day

The Independence Day celebrations on 15 August 2014 began with Flag hoisting followed by national anthem and an inspiring message by the Director, Prof.Madhusudan Chakraborty

IIT Bhubaneswar has a culture of celebrating the Independence day by performances from different societies like Music society, the Dance Society, the literary society and the Dramatics Society. The music society filled the auditorium with the melody, with a rendition of patriotic songs. The Dance society gave some energetic performances

showcasing the diversity of Indian Culture. The Literary society conducted a challenging Quiz testing the knowledge of Indian History and culture and then the Dramatics society, performed a street play putting a huge question mark on the freedom of present India.



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# Rhythm

The Newsletter

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Indian Institute of Technology Bhubaneswar

## From the Editor's Desk

Prof. Madhusudan Chakraborty completed his tenure as Director of Indian Institute of Technology Bhubaneswar on 18 August 2014. As the Founding Director of this young institute Prof. Chakraborty has ably steered IIT Bhubaneswar to new ventures and new dimensions since its inception in the city of Bhubaneswar in 2009. We, the IIT Bhubaneswar family wish

him all the best for all his future endeavours and a peaceful and healthy life in the years to come.

It is with pleasure we welcome Prof Sujit Roy, Professor, School of Basic Science, IIT Bhubaneswar who has assumed the charge of Director of the Institute.

We also take the opportunity to welcome new students, faculty and staff who have become a part of the

IIT Bhubaneswar family and congratulate those who have made their presence felt nationally and globally through their constant efforts and perseverance.



## Outreach

### WGRC organises a Workshop on “Inspiring Change in (Wo) Men”



*“The origin of gender bias as a mind-set begins with the way the mother and the family members treat the boy child differently from a girl child”*

Women's Grievance Redressal Committee (WGRC) of IIT Bhubaneswar organized a workshop on 11 April 2014 titled “Inspiring Change in (Wo) Men”. WGRC had invited Mr. Satyajit Mohanty, IPS, Chairman cum Managing Director, Odisha State Police Housing & Welfare Corporation, Mrs. Sujata Jena, Advocate of the High Court, Mrs. N. Rajashree Kanungo, Consultant, United Nations Population Fund, Odisha State Office, Dr. Lopamudra Tripathy, communications for development officer, United Nations Children's Fund and Dr. Amrita Patel, Advisor, State Resource Centre For Women as resource persons for the workshop. The workshop was inaugurated by the Director Prof. Madhusudan Chakraborty.

The session began with a panel discussion on "Power dynamics at home and in the work place" with Dr. Patel as the moderator. Dr. Lopamudra Tripathy spoke on 'Power Dynamics at Home'; Mr. Satyajit Mohanty spoke on the role of youth in bringing down crimes against women. He gave a presentation on how crime is perpetrated in the society and how as citizens we must act responsibly; Mrs. Sujata Jena, spoke on the legal aspects of crime against women and brought awareness amongst the student audiences about different laws dealing with such crimes.

There was an open forum and the panellists shared their expertise in answering the questions raised by the audience. The panel discussion ended with a vote of thanks by the

Chairperson, WGRC followed by a tea break. A documentary on "No country for Young girls" was screened and Mrs. N. Rajashree Kanungo conducted an interactive case-study analysis with the audience regarding the same. It was followed by a beautiful cultural program that included a solo Odissi dance presentation on Goddess Durga, symbol of feminine energy (Shakti) in Hindu religion by one of our research scholars and a thematic skit on human trafficking by the students of our Dramatics society. The workshop ended with a high tea in the evening. The participants were awarded with certificates of participation.



### School of Infrastructure organises a Short Term Course on Design of Road Bridges



School of Infrastructure, IIT Bhubaneswar has successfully organized a short term course on 'Design of Road Bridges' from 9-11 May 2014. The course was coordinated by Dr Suresh R Dash and Dr. Umesh Chandra Sahoo. 49 participants from all over India, involved in bridge analysis, design or construction, have participated in this workshop. The participants were mainly Orissa state government RD and PWD engineers, freelance engineers, professors and students.

The program was inaugurated by Dr. V. K. Raina, a very distinguished academician and practicing engineer involved in bridge engineering for many decades. Dr. Raina has delivered a very interesting as well as fascinating lecture on 'A Brief Journey of Bridges and their Futuristic Architecture'.

School of Infrastructure, IIT Bhubaneswar has been providing technical services to PMGSY programme since 2012 as State Technical Agency (STA) for Odisha and

Jharkhand and Principal Technical Agency (PTA) for Odisha, Jharkhand and Chhattisgarh. As part of this engagement, a large amount of Bridge design reports are being checked by IIT Bhubaneswar. This short term course was organized to discuss the technical and practical issues related to bridge design with specific emphasis on seismic analysis and design. Lectures were delivered by experts from academics and field.



### Institute Day Celebrations



IIT Bhubaneswar celebrated its 7th Institute Day on 22 July 2014. The event was graced by Prof. V.S Raju, Former Director, IIT Delhi and Professor, IIT Madras as the chief guest of the function. Addressing the audience, Prof. Madhusudan Chakraborty, Director, IIT Bhubaneswar, spoke about the history of the institute and the challenges ahead.

The cultural event included a 'Gotipua Dance' performance by the Konark Natya Mandapa, by SPIC MACAY. The dancers enamoured the crowd with their flawless performance. The celebrations ended with a sumptuous high tea.

## Orientation Program by Counselling Service Team (CST)



As in previous years, this year too, the Counselling Service Team of IIT Bhubaneswar, happily took upon itself the responsibility of welcoming the new students to the college and being their guarding angels till they felt comfortably settled in their new life at IIT.

This year CST was headed by Dr. Asmita Shukla and assisted by Ms. Vineeta Patnaik, Student Counselor, Tanveer Ahmed, the Student Coordinator for the Undergraduate CST and Praveen Kumar, the Student Coordinator for Postgraduate CST.

Each fresher was assigned a Student Guide to ensure that his/her doubts get cleared and queries addressed to on a one-on-one basis. The Student Guides assisted the freshers with the registration process, which took place on July 23 and July 24 for Postgraduates and July 25 for the Undergraduates. After registration, an Orientation Programme for the freshers was organised to acquaint them with all the information regarding the facilities, services, rules and regulations of the Institute. The Director, Head of Schools and faculty members also took active part in this programme for the Postgraduates, held on August 1. The Orientation Programme for the Undergraduates was held on July 3 after which a Treasure Hunt was organized for them. CST also organised the FGT (Fachas Got Talent), a fun filled contest for the freshers to shed their inhibitions and showcase their talent to the family of IIT Bhubaneswar.



## Faculty Activity

## SPONSORED PROJECTS BY FACULTY MEMBERS RECEIVED DURING APRIL-AUGUST, 2014

SI No.	Project Title	Funding Agency	PI	Date of Sanction
1.	Advanced modeling of tropical land-atmosphere-ocean system for simulation of extreme weather events	IUSSTF	Prof. U C Mohanty	10.05.2014
2.	Study on the development of ultra-sensitive optical fiber accelerometer based on Fiber Bragg grating (FBG) written Trapered Thin-Core Fiber	RCI (DRDO)	Dr. Rajan Jha	07.05.2014
3.	Chemical and Biosensors based on two dimensional layered structures and their grapheme based hybrides	UGC-UKIERI	Dr. Chandra Sekhar Rout	27.06.2014
4.	Understanding and characterisation of systematic erros in the WRF-ARW boundary layer parameterization over the Bhubaneswar and its neighbourhood regions	ISRO	Dr. Sandeep Pattanaik	07.08.2014
5.	Synthesis, Characterisation and development of red mud-fly ash based geopolymer concrete	NALCO	Dr. B Hanumatha Rao	07.07.2014
6.	Green Production of Hydrogen Storage Material from Natural Grade limenite	DST	Dr. Soobhankar Pati	03.07.2014
7.	Investigations on Strength and Volume Change Properties of Red Mud for its Effective Utilization in Geotechnical Applications	DST	Dr. B Hanumatha Rao	15.07.2014
8.	Flexible and free-standing vanadium sulfides/ nanocarbon (graphene, reduced graphene oxide, nanotubes) paer for high performance supercapacitor electrodes	DST INDO-Brazil	Dr. Chandra Sekhar Rout	14.08.2014
9.	Does Tropical cyclone Heat Potential (TCHP) play a significant role in intensification of tropical cyclones? A comprehensive analysis for the North Indian Ocean	INCOIS	Dr. Debadatta Swain	21.08.2014

## Workshop on Personality Development - Capitalize on the unique part of you-You

DrAsmita Shukla of School of Humanities, Social Sciences and Management conducted a Workshop on Personality Development - Capitalize on the unique part of you-You organized by COEARTH, School of Earth, Ocean and Climate Sciences on October 29, 2014 for the Post Graduate students of IIT Bhubaneswar.

## AWARDS

### Prof. Ganapati Panda of School of Electrical Sciences awarded BijuPatnaik Award

Professor Ganapati Panda of School of Electrical Sciences received the prestigious "BijuPatnaik Award" for Scientific Excellence for 2012. The Chief Minister of Odisha, Shri Naveen Patnaik felicitated Dr. Panda on 5 August 2014 at a function organised by Odisha Bigyan Academy at JayadevBhavan in Bhubaneswar. organized by COEARTH, School of Earth, Ocean and Climate Sciences on October 29, 2014 for the Post Graduate students of IIT Bhubaneswar.

### Dr. S. R. Samantaray receives "Excellence in Reviewing Award-2013" from Elsevier Science.

The internationally reputed journal Elsevier awarded the 2013 Certificate of Excellence in Reviewing to Dr. S.R. Samantaray of School of Electrical Sciences for his outstanding contribution to the quality of the journal.

## NEW MEMBERS OF FACULTY



Dr.Tabrez Khan joined the School of Basic Sciences as an Assistant Professor on 7 April 2014. His areas of research are Development of Novel Synthetic Methodology, Target & Diversity Oriented Synthesis of Bioactive and Aesthetically Pleasing Natural Products, Supramolecular Chemistry.



Dr. K. SrinivasaRamanujam joined the School of Mechanical Sciences as an Assistant Professor on June 16 2014. His areas of research are Radiation heat transfer, Microwave remote sensing, nonlinear optimization

## NEW MEMBERS OF FACULTY



Dr. Srinivas BhaskarKaranki joined the School of Electrical Engineering as an Assistant Professor on 30 June 2014. His areas of research are Power quality, Energy storage, DC-DC Converters for renewable energy sources, and power electronics applications in power systems.



Dr.KousikSamanta joined the School of Basic Sciences as an Assistant Professor on 1 August 2014. His area of research isTheoretical and computational chemistry.

### Dance Society



### Gymkhana Activity

The dance society of IIT Bhubaneswar once again came up with a brilliant performance during the annual dance productions this march. They started off with an excellent formation showing the letters of dance, way out of routine, followed by a'B-boying' dance style. The Bollywood and western mix by first years was very enjoyable. One of the best performances was the 'Rakthacharithr' dance, where they depicted a theme regarding violence against women. The red lights, costumes, expressions and energetic performance of the dancers added to the effect of the song. The third years came up with a beautifully choreographed contemporary style, with a Bollywood touch at the end, entertaining the audience to the fullest. The performance by fourth year students was exceptional and captivating. Girls added more charm to the event with their graceful moves and attractive costumes. The productions turned out wonderful and gave a great experience to the audience

### Fine Arts



The fine arts society of IIT Bhubaneshwar,Kalakriti, did a splendid job during the cultural week of 2013-14.Beautiful and creative sketches were put up in the audition.The doodle event was a lot of fun. Several artistic students made simple yet captivating doodles with themes like child labour in a span of two minutes. Students from all the courses participated in the events and made it a grand success.