

Campus Bulletin

MoU Between University of Warwick (WMG) and IIT Bhubaneswar



MoU exchange between Warwick Manufacturing Group (WMG) and IIT Bhubaneswar

A Memorandum of Understanding was signed on the 12th of February 2012 between Warwick Manufacturing Group (WMG) and IIT Bhubaneswar. The two institutions are expected to collaborate by launching joint post-graduate programs,

faculty and student exchanges, joint research projects, setting collaborative multi-disciplinary research groups among other shared academic and research activities. The MoU exchange ceremony was held during the fourth Foundation Day celebrations with Lord S. Kumar Bhattacharya representing WMG and Prof. M. Chakraborty representing the Institute.

MoU Between University of North Texas and IIT Bhubaneswar



MoU exchange between University of North Texas, Denton (UNT) and IIT Bhubaneswar

A Memorandum of Understanding was signed on the 4th of January 2012 between University of North Texas, Denton, Texas, USA (UNT) and IIT Bhubaneswar to facilitate faculty, research scholar and student exchange programs, development of

collaborative research projects, organization of joint academic and scientific activities like conferences, symposia, courses and lectures and encourage exchange of publications. The two institutions were represented by Prof. Ganapati Panda, Deputy Director, IIT Bhubaneswar and Prof. Warren W. Burggren, Provost and Vice President for Academic Affairs, UNT.

Alma Fiesta

"Tones that sound, and roar and storm about me until I have set them down in notes" - William Shakespeare.

Alma Fiesta, the annual socio cultural festival of the Institute was held between the 13th and the 15th of January 2012. The fest was inaugurated by Prof. B. K. Mishra, Director, Institute of Minerals and Material Technology (IMMT) Bhubaneswar. The evening began with an enthralling dance recital by the

noted Odissi danseuse Sujata Mohapatra, daughter and cultural heir to Guru Kelu Charan Mohapatra. This recital was followed by a dance performance by the young talented children from Asha Kiran. The innocence filled aura of these performances left everyone speechless.

Recognizing its social responsibility towards the society the case of the Olive Ridley turtles was brought into the limelight during the fest through a Youth Marathon covering a major portion of Bhubaneswar



Inaugural Ceremony

Street Play Competition

"Antakshri" hosted by the reputed radio jockeys, RJ Nicki and RJ Rajiv of 92.7 Big FM, the radio partner of Alma Fiesta served as the popular music event in harmonic counterpoint to "Euphony", the classical music event. "Topsy Turvy", the group dance event of Alma Fiesta kept both participants and audience mesmerized, the IIMT auditorium throbbed with dance styles from both classical and modern genres. Dance troupes from many colleges made the dance extravaganza titled "Step Up" a runaway success with UDT from KIIT emerging as winners. The fest ended with a spectacular musical show by the popular band "Bandish".

Wissenaire

"Any sufficiently advanced technology is indistinguishable from magic"



3D Laser Show

whipping the city of Bhubaneswar into a tech fever. Continuing with the grand success of its maiden edition, Wissenaire'12 organised a plethora of events, guest lectures, workshops and mega shows. Hundreds of students from all over the country participated in this tech gala. The fest projected the relevance of strong indigenous research as the key to progress in science and technology with its theme of 'Indigenous India Genius'.

The fest began with an inaugural evening with Dr. Kiran Bedi, Mr. Jitender Dutta and Mr. Arvind Jayshankar as its chief guests. The night witnessed a magic show, "An evening inside your mind" by renowned magician and stage mentalist from Netherlands, Mr. Arvind Jayshankar. The quizzing events lured the quizzing regulars of Odisha to the fest while the

Colloquia, the paper presentation event, had a mammoth participation from across the country. Robotics events turned out to be popular with "Robo-Wars" drawing a huge tech crowd. "Kick Off", the robo-soccer, also received an immense response. "Rostrum", the youth parliament, was a confluence for the determined youth who were seeking to change society. The "Hexabot", six legged bot, workshop was another highlight drawing scores of robotics enthusiasts. IBM held a "Storage systems" workshop and CISCO held a "Cloud Computing" workshop. The final eve of the fest witnessed a 3D Laser show, which was dubbed as one of the most beautiful visual treats of this year in Bhubaneswar.

Promoting the spirit of entrepreneurship and thirst for innovation, Wissenaire'12 emerged as one of the most sought after events of Eastern India.

Republic Day

IIT Bhubaneswar celebrated the Republic day with a commemorative march. Taking pride in these patriotic customs, Prof. M. Chakraborty, Director IIT Bhubaneswar hoisted the majestic tri-colour in tune with the national anthem sung by the students, faculty and staff. Addressing the students to imbibe a sense of national pride and commitment to the downtrodden, the Director wished them a bright future. He also reaffirmed that IIT Bhubaneswar has made definite progress towards establishing a unique brand identity in the pan IIT community by emphasizing a character that includes multi-disciplinary approach, open academic and scientific community where students, staff and faculty are all equal partners in growth apart from settings high standards in academic and research excellence.

International Women's Day



Padmashree and Jnanpith Awardee Dr. Pratibha Ray

The International Women's Day was celebrated on the 6th of March this year. Keeping in mind the theme, "Connecting Girls, Inspiring Futures", the Institute invited as chief guests, two eminent women,

Padmashree Dr. Pratibha Ray, the renowned Jnanpith award winning novelist and writer and prominent entrepreneur Mrs. Bharati Panda, CEO of Panda Enterprises, Bhopal. They delivered inspiring talks that drew



Mrs. Bharati Panda, CEO Panda Enterprises

from their rich life experiences. The celebrations included classical as well as contemporary performances presented by the Music and Dance Society of the Institute and short quiz about prominent women by the Literary Society. Additionally, collages and informative write-ups regarding the upliftment of women were also put up at different locations in the campus to increase awareness.

National Science Day Lecture

Padmashree Prof. K. L. Chopra delivered the **First National Science Day** lecture in the series, in an event that was jointly organized by IIT Bhubaneswar and Institute of Minerals and Materials Technology (IMMT), Bhubaneswar.

Research Scholars' Day



Research Scholars interacting with Padmashree Prof. K. L. Chopra and our Director

IIT Bhubaneswar celebrated its second Research Scholars' Day on 28th of February 2012 on the occasion of the National Science Day. Padmashree Prof. K. L. Chopra, Professor, IIT Delhi and former Director, IIT Kharagpur, inaugurated the celebration.

The research scholars organised poster presentations during which, Prof. Chopra along with the Director and faculty members interacted with the research scholars. Best three posters were awarded prizes.

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The IEEE branch of IIT Bhubaneswar conducted a workshop on 2D animation using Matlab® on 23rd of March 2012. The three hour workshop demonstrated the fundamental techniques of using Matlab® and its practical applications in creating Graphical User Interfaces (GUIs).

Rhythm

The Newsletter

Indian Institute of Technology Bhubaneswar

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Director's Message

To the graduating class – Class of 2008

"Graduation is an important milestone in the journey of life and you are going to enter into the real world of opportunities and endeavours with your most formative years behind you. I am sure you have prepared yourselves thoroughly to thrive and prosper, compete and conquer, and to rise to the pinnacle of achievement. During your stay in this Institute, we have done our best to provide you an education and environment to maximize your effort towards this.

I am sure, you will look back at your days spent in this Institute with pride and joy and the memories will continue to inspire you in your pursuit of excellence in the field of your choice. You will always remain an intrinsic part of this Institute and as the first batch of graduates, I see you as the brand ambassadors and hope that you will make the Institute proud.

Here's wishing you the very best for a bright and beautiful future."

Prof. Madhusudhan Chakraborty
Director, IIT Bhubaneswar

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Foundation Day



Honourable Justice Markanday Katju, Chief Guest, Fourth Foundation Day

IIT Bhubaneswar celebrated its Fourth Foundation day on the 12th of February 2012. The event was graced by Honourable Justice Markanday Katju, Chairman, Press Council of India as the Chief Guest of the celebrations. The Institute held a grand cultural programme with its complete family to mark this occasion. Lord S. Kumar Bhattacharya, Director, Warwick Manufacturing Group (WGM) and Prof. Damodar Acharya, Director, IIT Kharagpur were the Guests of Honour for the celebrations. Addressing the audience, Prof. Madhusudan Chakraborty, Director, spoke about the history of the Institute and the challenges ahead. Dr. Damodar Acharya recounted from his experience, the relation between the mentor institutes and the new IITs. Justice Markanday Katju gave a comprehensive talk on India and its cultural foundations as well as put forward some interesting theories on the elusive idea of “Indian-ness”.

There was a spectrum of cultural events beginning with a choreographed stage demonstration of Yoga performed by the students. Taking the celebrations forward was a melodious set of Indian classical music and folk songs presented by prominent musicians of the region. The Dramatics Society of the Institute performed a play titled “*Mareech the Legend*”, which was a modernized re-interpretation of the character Mareech from the Indian epic Ramayana. The actors gave a stunning performance regaling the audience with their acting prowess. The celebrations ended with a sumptuous high tea and a short documentary presentation on IIT Bhubaneswar by the Cinematics Society of the Institute.

First Foundation Day Lecture

“Here in the City of Temples, you are creating a temple to Innovation” - Lord S. Kumar Bhattacharya, Director, WMG, UK



Lord Kumar Bhattacharya delivering the first Foundation Day Lecture

The Institute organized its first **Foundation Day Lecture** in the series on the occasion of the Foundation Day. Lord S. Kumar Bhattacharya, Director, Warwick Manufacturing Group (WGM) delivered the lecture this year. In his address, he said that an IIT in Odisha is appropriate because “*here in the City of Temples, you are creating a temple to Innovation*”. He remarked how IITs are more than just educational institutes, they are “*centres for world class scientific education and research*” and each IIT is “*a fresh statement of intent*”. Citing examples from the humble beginnings of WMG, Lord Bhattacharya, emphasised that innovation and research should be taken up by IIT Bhubaneswar to meet the practical challenges of the world around us. He also spoke on the foundation and vision of WMG; comparing the two institutions he mentioned that our sight should be higher, our vision broader and we should become aware of our transnational choices. He talked about the challenges India and Odisha are facing which are also global concerns - climate change, energy efficiency, natural resources, business expansion in the area of lightweight vehicles and material sciences. Concluding his lecture, Lord Bhattacharya spoke of the shared vision of IIT Bhubaneswar and WMG, the M. Tech programs and collaborations in the years to come; “*under the leadership of your Chairman and your Director you are creating an Institute that will shape not just Odisha, but the world well beyond it's shores*”.



Release of the Institute Annual Report 2011-12

Visits by Persons of Eminence



Padma Vibhushan Dr. Anil Kakodkar visits the Institute

Padma Vibhushan Dr. Anil Kakodkar, an eminent Nuclear Scientist and Former Chairman of Atomic Energy Commission visited the campus on 27th of March 2012. Interacting with the students, faculty and staff he stressed on academic excellence, and IITs being the knowledge pools and global brand to reckon with. Talking of the socio-academic problems of the country, he said that premier institutes like IITs are the right platform for higher studies and research, and should produce more number of PhDs. India could emerge as a super-power only if we can tap on its knowledge potential. He also talked of the importance of IITs as autonomous educational systems, and elaborated on the fact that financial and academic autonomy coupled with accountability can provide the right environment for bright minds to flourish.

Summary of other visits and lectures

- Dr. Sailesh Naik, Secretary, Ministry of Earth Sciences, Government of India, visited the Institute on the 2nd of January 2012. He discussed with the Director and the faculty of School of Earth, Ocean and Climate Sciences regarding the School and the proposed Innovation Centre for Climate Change on the coastline of the Bay of Bengal.
- Prof. Abhijit Bhattacharyya, Director, Smart Materials and MEMS Laboratory, and Associate Dean, The Donaghey College of Engineering and Information Technology, University of Arkansas at Little Rock, delivered a lecture on the 4th of January 2012, titled “*Graduate Education and Research*”.
- Prof. C. Ravi Ravindran, Centre for Near-net-shape Processing of Materials, Ryerson University, Toronto delivered a lecture on the 5th of January 2012, titled “*Light Alloy Processing Revolutionizing the Automotive Industry*”.
- Ms. Renuka Raja Rao, Country Coordinator, Education USA, United States-India Educational Foundation (USIEF) and Mr. Benny Padila, Vice Consul, U.S. Consulate General Hyderabad conducted on the 2nd of February 2012, “*Study in USA*”, a Visa Counseling Workshop.
- Prof. Richard Dashwood, Academic Director, Head of Materials and Sustainability, WMG, University of Warwick, UK has visited the Institute during the period, the 11th to the 16th of February 2012.
- Dr. Steven Maggs, Project Director, Warwick Formula Student, WMG, University of Warwick, Coventry, UK delivered a talk on the 15th of February 2012 titled “*World First Racing: Sustainable Motorsport, a novel Vehicle for Public Engagement and Industrial Collaboration*”.
- Prof. Avijit Gangopadhyay, Associate Dean, University of Massachusetts at Dartmouth, USA visited the Institute on the 11th of March 2012 and interacted with the faculty members of School of Earth, Ocean and Climate Sciences.
- Dr. B. B. Rath, Associate Director, Research for Materials Science and Component Technology, Naval Research Laboratories, USA visited the Institute on the 11th of March 2012 and interacted with the faculty members of School of Earth, Ocean and Climate Sciences.
- Prof. Hema Sharada, Director, South Asia Relations, University of Western Australia delivered a talk on the 15th of March 2012, titled “*Higher Study/Internship Opportunity in Australia*”.
- Prof. Ashok Srinivasan, delivered a series of talks during his visit between the 21st and the 24th of March 2012 on the theme, “*Emerging Trends in High Performance Computing*”.

Faculty Activity

Prof. Ganapati Panda, Professor, School of Electrical Sciences has been elected as a Fellow of the Institution of Engineering and Technology, UK.

New Faculty and Staff at IIT Bhubaneswar



Dr. Sathyanarayana Ayyalasomayajula joined the School of Mechanical Sciences as an Assistant Professor. His research areas are: Fluid Turbulence, Experimental and Computational Fluid Mechanics and High Performance Computing.



Dr. Sasmita Barik joined the School of Basic Sciences as an Assistant Professor in Mathematics. Her research areas are: Combinatorial Matrix Theory and Graph Theory.



Dr. Chandrasekhar Bhamidipati joined the School of Basic Sciences as an Assistant Professor in Physics. His primary research area is String Theory.



Dr. Partha Sarathi De joined the School of Minerals, Metallurgical and Materials as an Assistant Professor. His research areas are: Structure-Property-Processing correlations, High cycle fatigue and fracture in metals, Friction stir welding and processing.



Dr. Satish Dhandole joined the School of Mechanical Sciences as an Assistant Professor. His research areas are: Dynamic Design, Vibration and Acoustics.



Dr. Chirantan Ghosh joined the School of Minerals, Metallurgical and Materials Engineering as an Assistant Professor. His chief research area is Diffusion in Solids.



Dr. Animesh Mandal joined the School of Minerals, Metallurgical and Materials Engineering as an Assistant Professor. His research areas are: Alloy development for automotive applications, In-situ Metal Matrix Composites, Semi-solid processing, Structure-property correlation.



Dr. Punyashree Panda joined the School of Humanities, Social Sciences and Management as an Assistant Professor. Her research areas are: Postcolonial Literature, American Literature, Canadian Literature, Indian Writing in English, ELT, Cross-cultural Communication and Business Communication.



Dr. Kisor Kumar Sahu joined the School of Minerals, Metallurgical and Materials Engineering as an Assistant Professor. His research areas are: Modeling and Simulation of Material, Structural and Magnetic frustration of materials, Synchrotron and Neutron diffraction, 3-D Atom probe (LEAP), Metallic glasses and process modeling.



Dr. Amrita Satapathy joined the School of Humanities, Social Sciences and Management as an Assistant Professor. Her research areas are: Commonwealth Studies, Indian Diaspora Literature, Travel Writings, Autobiographies and Memoirs.



Dr. Asmita Shukla joined the School of Humanities, Social Sciences and Management as an Assistant Professor. Her research interests are: Clinical Psychology, Consumer Behaviour, Cyber psychology (online behaviour), Marketing, Psychology of Personality and Research Methodology.

Showcase

Placements

The Career Development Cell (CDC) under the able leadership of Prof. C. N. Bhende and the hard work of the entire team at CDC has created a record in its first year of operation by delivering over 97% placements for the students with offers from MNCs, Banking Core Engineering, Consultancy Firms and Industry.

The Digital Signal Processing Lab



The Digital Signal Processing (DSP) laboratory has been established under the School of Electrical Sciences with an objective to introduce students to cutting edge technologies in the field of signal processing. The lab is equipped with the state of the art facilities for

signal generation and processing with a backbone of a fully networked computational platform. The laboratory has introduced a new concept of DSP workbench, in which a PC, a digital storage oscilloscope, an arbitrary waveform generator and a DSP starter kit form a complete modular system that enables the students to work in a well-organized framework. Some of the major equipment in the laboratory includes specialized DSP hardware for speech, image and video processing, hand-held spectrum analyzers, RF signal generators, signal analyzers, logic analyzers, dSPACE controller boards and the dSPACE MicroAutoBox.