



Indian Institute of Technology
Bhubaneswar



Rhythm

NEWSLETTER

VOLUME-19 | ISSUE-1 | JANUARY-MARCH 2019

GREEN AND HEALTHY CAMPUS ENVIRONMENT

Contents

Glimpses of VVIPs visit to IIT Bhubaneswar	2
11th Foundation Day IIT Bhubaneswar	3
Open House Day: Exhibition of Science & Technology	4
Seminars / Workshops	5
Foreign Faculty visiting IIT Bhubaneswar	7
New Faculty and Staff	7
Official Visits and Talks	8
Awards and Honours	9
Projects / MOUs	12
Other Activities	15



Glimpses of VVIPs visit to IIT Bhubaneswar



11TH FOUNDATION DAY IIT BHUBANESWAR

Indian Institute of Technology Bhubaneswar observed its 11th Foundation Day on 12th February 2019. Prof. Ganeshi Lal, Hon'ble Governor of Odisha graced the programme as the Chief Guest and inaugurated the ceremony. Dr. S. Christopher, Former Chairman, Defence Research and Development Organisation (DRDO), Ministry of Defence, Govt. of India had delivered Foundation Day Lecture as the Guest of Honour.

Prof. R. V. Raja Kumar, Director, briefed the recent developments of the Institute and informed that the Institute has grown from strength to strength by improving in all fronts by placing itself in a good position both in National and International ranking. He added that the Institute has ranked all India fourth position in Research citation. He emphasized that the success of the students is the key for the growth of an Institution.

Hon'ble Governor appreciated the Director of the Institute for his outstanding leadership and vision in shaping the future of the Institute. He expressed his gratitude to the Director for his immense contribution in the development of the society by imparting disciplined teaching and research output.

The Guest of Honour in his Foundation Day Lecture gave an account of AWACS Design and its operation in defence system. He urged the students to be very

strong and smart from within like the operating system of a defence missile which knows its target and its magnitude of destruction.

The Chief Guest felicitated members of the Faculty and students of the Institute for their outstanding contribution in their respective fields.





OPEN HOUSE DAY: EXHIBITION OF SCIENCE & TECHNOLOGY



The Foundation Day witnessed organising an Open Day in the campus from 9:30 AM to 6.00 PM with the participation of 5000 School students from Class-VI to Class- XII and Junior Engineering students from across the city and the state. On the eve, as a part of the open day, Science and Technology exhibitions / live projects were organized by the students of IIT, spanning across all of its schools. More than 207 exhibits were displayed and demonstrated to the visitors. The students visited all the Science and Technology exhibits and working models and enthusiastically participated in the science exhibition and shared their views with the students and faculty. It was very exciting and enriching experience for all the school children.

Apart from a number of colleges and schools from in and around Bhubaneswar, students of far away colleges from Berhampur, Balasore and Rayagada visited IIT in large numbers and participated enthusiastically in the Exhibition. About 400 students and 100 faculty members strived hard to put up and organize the exhibition. The main objective of such exhibitions and open house was to attract the school children to the sphere of Science and Technology especially the girl students of remote locality.



A kaleidoscope of SEOCS activities on Institute Open Day: clockwise from left to right: a) School students enjoying a microscopic view of fossils, b) the exhibition room teeming with activity, c) Hands on demonstration of fluid inclusions in mineral ores, d) M. Tech. student Leena Khadke explaining the modeling principles of tropical cyclones, e) M. Sc. Geology students Sujay and Madhusmita explaining mantle convection to a group of toddlers, f) The SEOCS Open Day team, as diverse as their science!

M. Sc. Geology students from SEOCS also participated in the demonstrations at the Institute DIC under the themes of 'Application of consumer UAVs/drone for disaster mitigation' and 'Augmented Reality: the future of observational science, visualizing topography using an augmented reality sandbox.' These projects were supervised by Dr. Y. K. Singh of SEOCS.

M.Sc. Geology students Bhavesh Moriya and Rajat Pattnaik explain how drones can be used to bolster the traditional approaches to disaster mitigation.



SEMINARS / WORKSHOPS



Institute Seminar on the topic "Shaping of Ambitious TRAIN-18" (India's First Semi High Speed Train)" was organized on 6th March 2019. The speaker of the seminar was

Shri Sudhanshu Mani, Former GM, Integral Coach Factory; Team Leader 'Train-18.' Mr. Mani started with achievements made by the



Integral Coach Factory (ICF), Chennai. He mentioned, today ICF is the world's largest coach manufacturing industry. Moreover, he talked about how women are empowered to do heavy fabrication jobs at ICF. Then he started with the challenges came across for initiating and completing ambitious 'Train-18' project which is the India's first semi-high speed train which can run at speed of 180 km/hr. He mentioned that by adopting deterministic and focused paths, his team completed the 'Train-18' project

in very short time of about 20 months. As a 'Make in India' initiative, 'Train 18' is one of such examples, this is the first time a train conceptualized, designed, engineered and built in India.

The School of Humanities, Social Sciences and Management in association with an NGO, Muktha Foundation (Organisation committed to the prevention of interpersonal abuse and promotion of mental health), Bangalore, organized a two-hour workshop on the topic 'Child Sexual Abuse' (CSA), on Friday, 1st March 2019. Many students and members of the Faculty and student counselors attended the workshop.





Padma Shri Prof. R. Balasubramanian, Former Director, Institute of Mathematical Sciences, Chennai delivered a colloquium talk titled "Introduction to public key cryptography" on 05-02-2019 in SBS.



Prof. R. Balasubramanian interacting with Head, SBS along with other mathematics faculty.

Dr. Hiroshi Yanagihara, Professor of Mathematics, Yamaguchi University, Japan delivered a colloquium talk "Transfinite Diameter" on 08-03-2019 in SBS.



Dr. Hiroshi Yanagihara, Professor from Yamaguchi University, Japan

Dr. Riddhi Shah, Professor, School of Physical Sciences (SPS), Jawaharlal Nehru University (JNU) delivered a colloquium talk titled "Dynamics of Distal and Expansive maps and an Illumination problem" on 28-03-2019 in SBS.

Prof. Deepak R. Mishra, Associate Professor, Dept. of Geography, University of Georgia, USA visited SEOCS and delivered a talk on the title "Solving Environmental Challenges in the Age of Big Data: Role of Remote Sensing in Cyber-Physical Systems (CPS) Research" on 01/04/2019. Prof. Mishra has been working in the area of field-based and traditional satellite remote sensing applications to

model and map various water quality and vegetation biophysical characteristics of coastal environments.



Prof. Deepak Mishra delivering his talk at SEOCS in front of an enthralled crowd of students and faculty members during his visit on January 4th, 2019.

Prof. Avijit Gangopadhyay (University of Massachusetts Dartmouth) visited SEOCS, IIT Bhubaneswar and delivered a talk on the title, 'Boundary Currents, Climate Change and Need for Sustained Observations' on 01/15/2019. Prof. Gangopadhyay has been working on ocean circulations and their numerical modeling, synoptic scale ocean forecasting and understanding the multi-scale response of ecosystems to climatic forcing using basin-scale modeling and data assimilation.

International Conference titled "International Conference on Thunderstorm & Lightning in Tropics (ICTLT 2019)" was held in Bhubaneswar during 17-19th January 2019 with co-participation of faculty members and delegates from IITBBS. Faculty members from SEOCS were integral parts of both the National Organizing Committee and the Scientific Steering Committee. Prof. R. V. Rajakumar, Director, IIT Bhubaneswar also graced the occasion with his presence.



The dignitaries present on stage on the occasion of ICTLT 2019.

FOREIGN FACULTY VISITING IIT BHUBANESWAR



Dr. Hiroshi Yanagihara, Professor of Mathematics, Department of Applied Science, Faculty of Engineering, Yamaguchi University, Japan came to IIT Bhubaneswar for carrying out joint research work with Dr. Vasudeva Rao Allu from 03.03.2019 to 10.03.2019. Prof. Hiroshi Yanagihara was the former Head of the Department. He is one of the councillors of Mathematical Society of Japan representing Function Theory Branch.

Prof. Lalu Mansinha, Professor Emeritus at the Department of Earth Sciences at the University of Western Ontario, Canada visited SEOCS and delivered an engaging lecture on 'S-transforms, Earth's Wobble, and Superconducting Gravimeter for the non-specialist'. Prof. Mansinha is a geophysicist with diverse research interests including seismology, gravimetry and utilization of tools of signal processing in understanding the earth system.

NEW FACULTY AND STAFF



Dr. Madhusmita Dash

Assistant Professor
School of Humanities, Social Sciences & Management

Research Interests: Economics of Natural Resource Management; New Institutional Economics; Environmental Economics; Rural Development; Renewable Energy; Trans-boundary Water Conflict



Dr. Soumya Prakash Dash

Assistant Professor
School of Electrical Sciences

Research Interests: Communication theory; Powerline communication; Smart grid communications; Diversity combining; Soft and evolutionary computing



Dr. Akanksha Tyagi

Assistant Professor
School of Infrastructure

Research Interests: Soft soil engineering; Ground Improvement (cement-treated soils); Tunnelling; Centrifuge modelling; Random finite element analysis



Dr. Devesh Punera

Assistant Professor
School of Infrastructure

Research Interests: Structural Mechanics; Composite structures; Continuum theories of beams, plates and shell structures; Smart materials; Bio-mechanics.



Dr. Rama Krushna Sabat

Visiting Assistant Professor,
School of Minerals, Metallurgical and Materials Engineering

Research Interests: developing the microstructure-texture-mechanical property correlation in light metals and alloys; processing of materials using conventional and non-conventional routes; failure modelling of structural components under various loading paths.



Dr. Vijaykrishna Kari

Associate Professor
School of Basic Sciences

Research Interests: Synthesis of task specific ILs and polymerizable IL monomers; Synthesis of Chiral Polymers and their applications in chiral induction; Synthesis of Achiral and Chiral Resins and their applications in synthesis; PIL stabilized metal nanoparticles and their applications; Polyelectrolyte-DNA interaction studies; PILs for gas separation membranes; Synthesis of MIPs and resins for nuclear waste treatment; Synthesis of (RAFT derived) ionic, pH, temperature and solvent responsive homo- and block copolymers towards their self-assembling for drug delivery



Shri K. Saikiran
Assistant Registrar



Shri Shalin Sasidharan Nair
Public Relations Officer



Dr. Gagandeep Kaur Makkar
Student Counsellor



Dr. Subhasish Nag
Resident Medical Officer

OFFICIAL VISITS AND TALKS

Three of the foreign faculty, Dr. Xiong Bin Peng, Assistant Professor, Department of Mechatronics Engineering, Shantou University, China, Dr. Ankit Garg, Associate Professor, Department of Civil and Environmental Engineering, Shantou University, China and Dr. Akhil Garg, Associate Professor, Department of Mechatronics Engineering, Shantou University, China, visited IIT Bhubaneswar on 21.01.2019.

The speakers discussed about research opportunities (both full time and exchange programs) for students from undergraduate and postgraduate (M.Tech, Ph.D) as well as the exchange opportunities for faculties of IIT. Also, the general life style of International Scholars from our research group was also highlighted. Overall, the talk shed insights into both short term and long term research opportunities at Shantou University, China.



Dr. Debakanta Mishra delivered a talk on evaluating the suitability of a High-Density Polyurethane (HDP) grout injection as a potential remedial measure for flexible pavement sections constructed over expansive soils.



Debakanta Mishra, Ph.D., P.E, Assistant Professor, Civil Engineering, Boise State University, USA.

IIT Bhubaneswar hosted officials from German Academic Exchange Service (DAAD)

IIT Bhubaneswar hosted officials from German Academic Exchange Service (DAAD) on 11th February 2019. In the meeting, the Director, Prof. Raja Kumar, R.V., stressed upon the need for international collaboration. He apprised that the efforts taken by IIT Bhubaneswar to attract foreign



faculty members have paid off within a short span of time. Faculty members from various countries around the world have collaborated in research and taught structured courses for the whole semester at IIT Bhubaneswar.

Officials from DAAD encouraged faculty members and students of IIT Bhubaneswar to apply for various DAAD funds and scholarships available for pursuing coursework and research in Germany. They also highlighted the funds available to invite German students and faculty members to IIT Bhubaneswar.

Faculty presentation at the 2019 URSI Asia Pacific Radio Science Conference in New Delhi: Dr. D. Swain presented a research paper titled "Validation of Tropical Cyclone Heat Potential (TCHP) derived from satellite products over the North Indian Ocean" at the 2019 URSI Asia Pacific Radio Science Conference at New Delhi during 9-15th March 2019.

AWARDS AND HONOURS



Teaching Excellence Awards for the Autumn Session 2018-19

On the 11th Foundation day, 12th February 2019, IIT Bhubaneswar has awarded the following members of the Faculty of the Institute with Teaching Excellence Awards for the Autumn session 2018-19.

Distinguished Teaching Award

Overall Best Performance



Dr. Venugopal Arumuru
Assistant Professor
School of Mechanical Sciences (SMS)

Award for Teaching Excellence



Dr. Mihir Kumar Pandit
Assistant Professor
School of Mechanical Sciences (SMS)



Dr. Kousik Samanta
Assistant Professor
School of Basic Sciences (SBS)



Award for Teaching Excellence



Dr. Bankim Chandra Mandal
Assistant Professor
School of Basic Sciences (SBS)



Dr. Rajakumar Guduru
Assistant Professor
School of Humanities, Social
Sciences & Management (SHSS&M)

Ramanujan Prize 2018 by Ramanujan Institute for Advanced Study in Mathematics, University of Madras

Ramanujan Institute for Advanced Study in Mathematics, University of Madras has selected Dr. Tarakanta Nayak from School of Basic Sciences for Ramanujan Prize for the year 2018 for the article "Herman rings of meromorphic maps with an omitted value". This was published in the Proceedings of American Mathematical Society in August 20, 2015.

Project led by Prof. Brahma Deo awarded best prize in Industry 4.0 of ICME

The presentation, "optimization of DRI production through dynamic modeling and simulation at TSIL," made at Indian Institute of Metals Annual Technical Meeting, Nov. 14-16 2018 at Kolkata, based on joint work of TATA Sponge Iron Limited (TSIL), Joda, and sponsored R&D project at School of Minerals, Metallurgical and Material Engineering, IIT Bhubaneswar, received the best prize in section "Industry 4.0 of ICME" (Integrated Computational Materials Engineering). The Principal Investigator of the R&D project at IIT Bhubaneswar is Prof. Brahma Deo, Professorial Fellow in the School of Minerals, Metallurgical and Materials Engineering.

ASCE Best Practice Oriented Paper Award 2019

SIF research group members Prangya Ranjan Rout, Dr. Puspendu Bhunia and Dr. Rajesh Roshan Dash have been selected to receive the 2019 Best Practice Oriented Paper by American Society of Civil Engineers (ASCE) for their published paper entitled "Assessing possible applications of waste organic solid substances as carbon sources and biofilm substrates for elimination of nitrate toxicity from wastewater" in the Journal of Hazardous, Toxic and Radioactive Wastes.

Team Prajjawala of IIT Bhubaneswar has won NRDC National Budding Innovators Award – 2018

Team Prajjawala of IIT Bhubaneswar led by Rahul Kumar (CSE, 3rd Year), Rahul Mahanot (ECE, 3rd Year), Rishwanth K (ME, 3rd Year) and Deepak K (ME, 3rd Year) has won the prestigious NRDC National Budding Innovators Award - 2018 for their invention "Internet of Things and Data Analytics based Price Fragmentation, Pay-As-You-Use and Supply Chain Automation and Optimization in LPG Distribution System." IIT Bhubaneswar has won this National Award for the second consecutive year under the able guidance and mentoring of the experienced faculty led by the Director, Prof. Raja Kumar, R. V.



Mr. Sumit Dass (Ph.D. Research Scholar, Nano-photonics and Plasmonics Laboratory, SBS) was awarded 'First Place' in the LAMP Poster Session for the poster entitled, "Micro-Tapered Fiber based Curvature and Acoustic Sensors" during the "Winter College on Applications of Optics and Photonics in Food Science," held at ICTP, Trieste-Italy, 11-22 February 2019.

Shri Manikanta Varma, Student – won the 1st Prize in the National Competition of StockMIND 6

BETiC Medical Innovation Challenge Team won the 2nd position in Inter IIT Tech Meet



Pritam Das, research scholar in SBS has received Madhusudan Memorial Award from the Institute of Engineers (India)



MindRover Season 7 Runners Up

Second Year B.Tech. students - Shibu Meher, Gurudev Singh and Parida Himanshu Prakashchandra - of School of Minerals, Metallurgical and Materials Engineering, IIT Bhubaneswar won the second prize in Grand Finale of MindRover Season 7 for T-Schools organized by Tata Motors. The finale was held in Pune on 28th March, 2019. It is a unique case study challenge that invites solutions from the best minds on the best engineering campuses. The objective of the inter T-School challenge was to provide students with an exciting opportunity to come up with an innovative idea as a solution to the

case challenge in the automobile sector. The team named High Flyer presented an innovative solution to metal recycling, waste tyre recycling and windshield recycling automobile sector using a presentation titled, End of life vehicle and reuse, recycle and recovery policy.

Mr. Abhishek Mishra of 6th semester (third year) B. Tech., SMS (supervisor: Dr. P.R. Budarapu) was selected for the DAAD scholarship to visit Bauhaus University of Weimar, Germany as part of the summer internship program during May-July 2019, under the supervision of Prof. T. Rabczuk.



PROJECTS / MOUs



Dr. Debi Prosad Dogra

Implementation of Advanced Machine Learning Algorithms for Cluster Expansion, Funding Agency: IKST Bangalore, Type: CONSULTANCY PROJECT, Budget: INR 12.27 Lakhs, Duration: January 2019-December 2019 (Sanctioned and Ongoing).

Re-identification Guided Video Synopsis, Funding Agency: Korea Institute of Science and Technology, South Korea, Type: Consultancy Project, Budget: 18.37 Lakhs Duration: April-December 2019 (Sanctioned)

Dr. Padmalochan Bera

Project Title: Design and Development of Tools for Detection and Prevention of Cyber Attacks in Smart Grid Energy Management Systems (EMS) PI: Dr. P. Bera
Co-PI: Dr. S. R. Samantaray, Dr. Balakrishna Pamulaparthu
Sponsoring Agency: CPRI, Bangalore
Period: March 2019-March 2021
Cost: 49.92 L

Dr. Pandu R Vundavilli, Dr. M.K. Pandit and Dr. P.R. Budarapu. "Dynamic analysis and design of dynamically balanced gait controller for lower limb exoskeleton (CRG/2018/001928)", with a budget of ₹47.39 lakhs sanctioned by the Department of Science and Technology (DST) under the Core Research Grant (CRG) scheme by the Science and Engineering Research Board (SERB).

Dr. M.K. Das, Dr. P. Rath and Dr. V. Arumuru. "Design and Development of Hybrid 'PCM-Synthetic Jet' based Heat Sink for Electronic Cooling", with a budget of ₹ 30.48 lakhs is sanctioned by the Department of Science and Technology (DST) under the Core Research Grant (CRG) scheme by the Science and Engineering Research Board (SERB).

Prof. S.K. Mahapatra, Dr. P. Rath and Prof. Sunil Kumar (Newyork University). "Computationally Guided Laser Based Tumor Diagnosis and Therapy", with a budget of ₹ 74 lakhs is sanctioned by the Ministry of Human Resource Development (MHRD), Government of India, under the Scheme for Promotion of Academic and Research Collaboration (SPARC).

Dr. Y.G. Bhumakar. "Development of a three dimensional, unsteady, compressible flow solver to optimise shape of a launch vehicle for reducing aerodynamic drag and flow induced acoustic noise at transonic Mach numbers" with a budget of ₹ 19.5 lakhs is sanctioned by the Indian Space Research Organisation (ISRO) under the RESPOND BASKET scheme.

MOU WITH OREDA



An MoU was signed between IIT Bhubaneswar and OREDA (Odisha Renewable Energy Development Agency) on 17th February 2019 in the presence of Shri Badrinarayan Patra, Hon'ble Minister, School & Mass Education, Science & Technology-cum-Chairman, OREDA, Shri Bhaskar Jyoti Sharma, IAS, Commissioner-cum-Secretary to Government of Odisha Science & Technology Dept. and Ms. Roopa Mishra, IAS, Chief Executive Officer of OREDA on the occasion of 35th foundation day of OREDA. On behalf of Prof. R. V. Raja Kumar, Director, IIT Bhubaneswar, Prof. R. K. Panda, Dean (R&D) signed the MoU. In this endeavor, IIT BBS and OREDA will work together in developing new technical solutions, solving existing challenges, designing policies and O&M (Operations & Maintenance) framework for smooth proliferation of solar generation in Odisha. OREDA will also extend support to IIT in terms of hosting student internship, student research project and faculty collaboration as per IIT Bhubaneswar rules. The ceremony was held at the Biju Patnaik Energy Park, Bhubaneswar.



15TH AND 16TH EVENTS OF “EK BHARAT SHRESHTHA BHARAT” PROGRAMME

The “Ek Bharat Shreshtha Bharat” programme was introduced by the Prime Minister, Shri Narendra Modi, during the Rashtriya Ekta Divas held on 31st October, 2015, to venerate the birth anniversary of Sardar Vallabhbhai Patel. This program was initiated to celebrate the cultural diversity through mutual interaction and exchange between people of different states and union territories so that a common spirit of understanding reverberates throughout the country.

The commencement of the series of events was inaugurated on 15th November 2017 and all the 16 events for all the 36 states/UTs in 16 pairs have been organised in a spirited way throughout the year as per the schedule at IIT Bhubaneswar. The 15th event of Ek Bharat Shreshtha Bharat has been organised at IIT Bhubaneswar on 26th January 2019, on the 59th Republic day to showcase the



rich heritage and culture, customs and traditions of the paired union territories of Pondicherry-Daman & Diu, to nurture a sense of common identity among people. The concluding 16th event for the paired UTs, Andaman & Nicobar – Lakshadweep has been organised on 31st March 2019 in a grand way.

In the last event, Director, Prof. R.V. Raja Kumar addressed gathering on the significance and objective of celebrating the EBSB events and the role of the IIT Bhubaneswar in taking forward the concept. He said that these events created a common national identity amongst the staff and students from diversified regions, cultures and societies. He appreciated the efforts of the EBSB organising team members and congratulated them for successfully organising all the scheduled 16 events. He has expressed his pleasure for the overwhelming and energetic participation from campus residents and students in all the 16 events. Doordarshan, Bhubaneswar has taken full coverage of all the events and telecasted the same.

MATRIBHASHA DIWAS (INTERNATIONAL MOTHER TONGUE DAY)

Indian Institute of Technology, Bhubaneswar celebrated the *Matribhasha Diwas* on 21st Feb, 2019 to commemorate the International Mother Language day - a day dedicated to promote the dissemination of mother tongues and fuller awareness of linguistic and cultural traditions throughout the world and to inspire solidarity based on understanding, tolerance and dialogue.

The programme was graced by Prof. R.V. Raja Kumar, Honorable Director, IIT Bhubaneswar. Prof. Jatindra Kumar Nayak, eminent writer and retired professor in English, Utkal University was the chief guest of the event.





NATIONAL SCIENCE DAY



Indian Institute of Technology Bhubaneswar celebrated the National Science Day and 9th Research Scholar Day on February 28, 2019 in commemoration of the invention of the Raman Effect by the Indian physicist and Nobel Laureate Sir C. V. Raman.

The chief guest for the event was Dr. P. V. Venkitakrishnan, outstanding scientist and Director, Capacity Building Programme Office, (CBPO), ISRO. The event was celebrated with a poster presentation session in the presence of the students, research scholars, faculty members and the functionaries of the Institute.



Speaking on the occasion, Prof. R.V. Rajakumar, Director, IIT Bhubaneswar, said, "On this day, we need to re-dedicate ourselves to the cause of science and technology helping us to shape the face of a new growing India along with betterment of mankind. At present the need of the hour is to stretch ourselves to, be somewhat more productive, come out with better science and technology creations, conscious about the need for improvement upon our system, technology and have more reliable manufacturing."

Dr. P. V. Venkitakrishnan, Director, Capacity Building Programme Office, (CBPO), ISRO explained several complex aspects of science and technology lucidly and in an easy to understand manner by giving day to day life examples. He also emphasized that since India as a country has multiple dimensions in form of skilled workforce, resources, talent so having a concrete plan in place will help to retain the manpower from going out of India so that we can prevent the brain-drain from happening.

INTERNATIONAL WOMEN'S DAY



IIT Bhubaneswar celebrated International Women's day on 8th March 2019 with this year's theme, "Think Equal, Build Smart, Innovate for Change."

Speaking on the occasion Prof. R.V. Raja Kumar, Director, IIT Bhubaneswar said, "International Women's Day encourages us all to reflect on the importance of gender equality, to celebrate the successes of women, and to acknowledge the work that is still left to be done. Today fortunately the country has come up with a mechanism for rise in seats of women for education, so we look forward to have an increasing ratio of women going forward. With women being the main link for the family and connection to the community, there remains a great deal of work to be done to ensure equal rights in all aspects of life".

The chief guest of the event Ms. Amrita Dash, Assistant Director, National Police Academy, Hyderabad expressed her heartiest congratulations to the students and faculties and appealed to all to bring up the children into a genderless womanhood by breaking the stereotypes of today, ready to accept the path of change and living up with challenges every day.

The celebration was a three day affair starting from 6th March to 8th March with a series of activities ranging from debate, poetry writing on first day followed by a talk on the topic, "Handling Relationship" by Dr. Gagandeep Kaur Makar, Student Counsellor, IIT Bhubaneswar, slogan writing and quiz on the second day. The event on final day witnessed the presence from Prof. R.V. Raja Kumar, Director, IIT Bhubaneswar, Chief Guest Ms. Amrita Dash, Assistant Director, NPA, Hyderabad along with Ms. Remya Neelancherry, Chairperson, Women Welfare Committee (WWC).



OTHER ACTIVITIES


IIT Bhubaneswar Pay Tributes to the Departed Souls of Jawans of Central Reserve Police Force (CRPF)

IIT Bhubaneswar fraternity (Students, Faculty and Staff), under the aegis of the Director, Prof. R. V. Raja Kumar, paid tributes to the Departed Souls of Jawans of Central Reserve Police Force (CRPF) and expressed solidarity with their families. A candle march was taken from various locations in the Campus and assembled at the Main Gate of the Campus. A two minute silence was also observed (throughout the Campus), praying to have the Departed Souls rest in Peace and flower tributes were offered.

Aeroengine - MIG-21

As a result of significant efforts from Prof. R.V. Raja Kumar, Director, IIT Bhubaneswar, aeroengine of MIG-21 R-11 T-70121025 was adopted from Air Force Station, Kalaikunda. The engine is now displayed in the School of Mechanical Sciences, to study and understand the underlying technologies in the design and manufacturing of such engines.


Wissenaire'19

The Indian Institute of Technology Bhubaneswar students have organized the ninth edition of the annual techno-management festival Wissenaire'19 from February 01 to 03, 2019, in its green campus, under the guidance of Prof. R.V. Raja Kumar, Director, IIT Bhubaneswar. Wissenaire'19 was based on the theme "Augmented Reality: The Perceptual Enhancement of Reality for the Genesis of Anthropocentric Technology."

Dr. K Radhakrishnan, former Chairman, ISRO and Hon. Distinguished Advisor, ISRO, was the Chief Guest of the event had delivered a lecture on the topic "Augmented Reality and Human Space Exploration-Emerging Trends."

Wissenaire'19 had several things to offer for the tech-savvy generation of students such as: a well-rounded collection of competitions, workshops, exhibitions, and guest-lectures encompassing the scientific, technical and managerial domains. Wissenaire provided a challenging platform for young minds from across the country to showcase their technical prowess and zeal for innovation. It attracted a unique gathering that unleashed new ideas, inspired and informed the future architects of India.





TEDx IIT BHUBANESWAR



TEDx IIT Bhubaneswar was organized on 27th January 2019, at the Community center at Argul Campus of IIT Bhubaneswar. The event was carried out in two sessions. The morning session had the screening of the TED talk "How great leaders inspire action" by Simon Sinek, followed with talks by Mr. Sushant Verma - "Does Technology affect culture?"; Mr. Rohit Suraj - "Architecture: When aspirations inspire!" Ms. Aditi Sharma - "Explore your curiosity."

Evening Session had the screening of the talk "The Dawn of the age of Holograms" by Alex Kipman. It was followed by talks by Mr. Anuj Tiwari - "Give your heart a break"; Dr. Jagdish Chaturvedi - "Art of being funny." A TEDx video "The world through the eyes of a Cinematographer" was screened by K.K. Senthil Kumar. It was succeeded by the last talk of the event by Ms. Sanjana Sanghi - "Satisfaction Guaranteed."

The session concluded with the presentation of mementos to the speakers by the Director, Prof. R.V. Raja Kumar and the Chairperson Wissenaire'19 Dr. Meenu Ramadas.



PLANTATION DRIVE AT IIT BHUBANESWAR



IIT Bhubaneswar in association with Syndicate Bank, carried out an external plantation drive from the IIT main gate (Khudupur Square) to NISER Square, Jatni-Argul road on 28th March, 2019. The main intention is to promote a greener ecosystem along with providing a pollution-free atmosphere to the local inhabitants.

Speaking on the occasion, Prof. R.V. Raja Kumar, the Director, said, "With this initiative, we would like to set an example to the citizens and particularly motivate the nearby villagers to contribute to the protection of the environment as active stakeholders. We see this as a great means for all of us to give back to our mother nature by contributing to a sustainable ecosystem. We at IIT Bhubaneswar are committed towards building a green campus and have achieved a fairly good success in this endeavour, and it will continue. This initiative, I am sure would help in creating more awareness among the general public about the importance of growing trees to prevent global warming and thereby reducing pollution."

The plantation drive event saw active participation from the Institute members, faculties and staff. Prof. Raja Kumar thanked Mr. K.C. Tudu, Regional Manager, Syndicate Bank and his staff members.



FIELD WORK

**Project Field work of 2nd year, MSc. Geology students:**

Dr. Y. K. Singh took his project students working on landslide mapping to Kangpokpi, Manipur for fieldwork. The students used consumer UAVs to produce structural maps of the land-surface which will aid in demarcating landslide hazard prone areas.



Rajat Pattnaik of M. Sc. 2nd Year, Geology flies a drone to map areas prone to landslides and improve our understanding of hazard potentials – in Kagpokpi, Manipur.

Dr. Debadatta Swain and M. Tech. students from SEOCS conducted continuous field campaign in the Hooghly Estuary off Diamond Harbour in West Bengal from 11th to 15th February 2019 along with scientists from National Remote Sensing Centre (ISRO). As part of the campaign, day & night time-series met (temperature, humidity, pressure) and water quality observations (sediment concentration, pH, turbidity, pigments, surface currents, surface temperature and temperature-salinity profiles) were made at multiple locations in the Hooghly estuary using a suite of equipments including portable AWS, IR thermometer, multi-parameter CTD, castaway CTD, current meter, Niskin water sampler, etc. The observational campaign was a part of the collaborative work between SEOCS (IITBBS) and NRSC (ISRO) on the "Ecological Studies of Hooghly Estuary."



Joint ISRO-IIT BBS field campaign on the Hooghly river with Dr. Debadatta Swain and SEOCS students.

STUDENT ACTIVITIES

**Poetry Conclave – "Kavyanjali"**

Abhivyakti, the Hindi Literary Society of IIT Bhubaneswar, organized the event "Kavyanjali," a poetry conclave, on 9th February 2019. The event started with lightening the lamp by the honourable Chief Guest- Mr. Haraprasad Das, Guest of Honor- Mrs. Gayatri Mavuru and Chief Speaker- Mr. Artatran Mishra. In his speech, Mr. Das talked about the Indian Culture and described how it is different from the Western culture in terms of Literature. He also pointed out various issues being faced by Indian community of Literature and potential solutions. The speaker of the event Mr. Mishra enlightened the whole audience with his poetry on the role of Gurus and Parents in preparing the children for future. He also explained how a poet should take inspiration from nature to write poems. He also mentioned that many technocrats have their interest in poetry and often used to express their experiences in the form of poetic rhymes. Further, Mrs. Gaytaru Mavuru mesmerized the audience with her amazing poetry. After these enlightening speeches, panel discussion on topic "Literature forms the Highway to the Global Unity" was conducted.



After the discussion, "Kavyanjali," a poetry session, started with outstanding performances of poets. Around 50 poets from all over Bhubaneswar presented their poetry in front of juries of the competition consisting of Mrs. Swapna Behera, Mr. Agnivesh Mahapatra and Mr. Saqti Mohanty.



After a tough competition, Mr. Ankush Mehta got 1st, Navinya Chimurkar got 2nd and Afreen Tabassum got 3rd prize. Also, 5 participants were appreciated for their outstanding performances. Cultural performances were given by Cultural society members of IIT Bhubaneswar.



HOLI – THE FESTIVAL OF COLOURS!



The students and Faculty of IIT Bhubaneswar celebrated Holi – the festival of colours – with full enthusiasm and grandeur on 21st March 2019 at IIT Bhubaneswar. The Holi celebrations took place in MHR ground, NISER and AN Khosla premises. Our institute arranged for colours and water, and all the members of the institute were invited to take part in the Holi celebrations. An aura of

joy and merriment filled the air and it seemed to affect each and everyone. Students played colours with each other, danced to music and made tons of memories with their friends. For that one day, it seemed that all personal demarcations were forgotten as all students, Faculty, mess and hostel attendants and the watchmen came together and enjoyed themselves on this joyous occasion. The day ended with a cultural night organised at MHR ground, which included a bonfire, bringing a perfect closure to this revelry.





भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर
Indian Institute of Technology Bhubaneswar

HOME CALL FOR PAPERS REGISTRATION IMPORTANT DATES ACCOMMODATION CONTACT



64th Congress of the Indian Society of Theoretical and Applied Mechanics (An International Conference)

DECEMBER 9-12, 2019

Organized by School of Mechanical Sciences and School of Basic Sciences (Mathematics)
Indian Institute of Technology Bhubaneswar 752050

Our Speakers

Call For Sponsorships



ISOG 2019

December 5 - 6, 2019
IIT Bhubaneswar

First Indian Symposium on Offshore Geotechnics (An International Symposium)

ORGANISER

School of Infrastructure
Indian Institute of Technology Bhubaneswar



In association with

TC209, International Society for Soil Mechanics
and Geotechnical Engineering (ISSMGE)



Indian Geotechnical Society, Bhubaneswar Chapter



First Bulletin



visit www.iitbbs.ac.in for more information

Marching forward to finding its place among the top world class institutions



Indian Institute of Technology Bhubaneswar

Argul, Khordha - 752050, ODISHA, INDIA

Phone: +91 674 7134560 / 7134561

Email: registrar.office@iitbbs.ac.in

www.iitbbs.ac.in

Published by

Institute Publication Committee

IIT Bhubaneswar

Email: news@iitbbs.ac.in