



# The IITG Monitor

## The Quarterly Newsletter



Shri Prakash Javadekar, Hon'ble Minister for Human Resource Development, Government of India launched the C-DAC – IIT Guwahati Supercomputing Facility 'PARAM-ISHAN' at IIT Guwahati on 19 September 2016.

With a peak computing power of 250 Teraflops, PARAM-ISHAN is the fastest and most powerful supercomputer to be deployed in the north eastern, eastern and southern regions, outside Bangalore.

In his inaugural address, Shri. Prakash Javadekar, Hon'ble Minister for Human Resource Development, Government of India said "We reiterated our commitment to give a big push to research and innovation by empowering the educational institutes to transform into higher seats of learning and platforms for advanced research. A nation's potential for growth today, is evaluated on the quality of its research and development. As a big nation, we certainly face a number of problems. Effective R&D activities carried out in a strategic mode can be the solution to our most pressing problems. We need to amalgamate our strengths, skills and resources to provide the right direction to our research initiatives. The coming together of C-DAC and IIT Guwahati is a strategic move that will provide a boost to both the HPC users and the community through the now deployed PARAM-ISHAN. I am sure that several technology areas will be positively affected through the introduction of this new Super Computer."

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PARAM-ISHAN can be used in the application areas like Computational Chemistry, Computational Fluid Dynamics, Computational Electromagnetic, Civil Engineering Structures, Nana-block Self Assemble, Optimization etc. North East India receives heavy rainfall during monsoon, which leads to flooding and landslides. PARAM-ISHAN can be used for Weather, climate modeling and seismic data processing.

Also present during the occasion were Vinay Sheel Oberai, Secretary, Department of Higher Education, Government of India; Prof. Rajat Moona, Director General, C-DAC, Pune; Prof. S.V. Rao, Head, Computer Center, IIT Guwahati.

**BSBE**

Dr. Senthilkumar Sivaprakasam attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Dr. Lingaraj Sahoo delivered an Invited talk at Gifu University, Japan from 29.08.16 to 31.08.16.

Dr. Lingaraj Sahoo visited Yilan City, Taiwan to deliver an Invited talk and for Research Collaboration from 05.09.16 to 08.09.16.

**Chemical**

Dr. Vimal Katiyar attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Dr. Amit Kumar attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Prof. Mihir Kr Purkait attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Dr. Ashok Kumar Dasmahapatra attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Prof. . Bishnupada Mandal attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) &

GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Dr. Subrata Kumar Majumder attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Dr. Chandan Das attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Prof. Prabir Kumar Saha attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Dr. Vaibhav V. Goud attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Prof. . Anugrah Singh attended the “IITG-KIT Joint Symposium on soft and biobased material and third symposium on Advances in Sustainable polymers (ASP - 16) & GIFU – IITG Joint Symposium” at GIFU University and Kyoto Institute of Technology, Japan from 01.08.16 to 06.08.16.

Prof. . Anugrah Singh attended the “XVII International Conference on Rheology 2016 (ICR 2016) ” at Kyoto TERRSA, Kyoto, Japan from 08.08.16 to 13.08.16.

Dr. Pankaj Tiwari attended the 22<sup>nd</sup> International Congress of Chemical and Process Engineering CHISA 2016 joint with 19<sup>th</sup> Conference PRES at CHISA 2016, Novotneho lavka 5, 11668 Prague 1 from 28.08.16 to 31.08.16

Dr. Raghavendra Gupta attended the “14<sup>th</sup> International Conference on Microreaction Technology (IMRET)” at Friendship Hotel, Beijing, China from 12.09.16 to 14.09.16

### Chemistry

Dr. Sumana Dutta attended the 2016 Gordon Research Conference on Oscillations & Dynamics Instabilities in Chemical Systems at Stoweflake Conference Centre, Stowe, VT, USA from 17.07.16 to 22.07.16.

### Civil

Dr. A. Chakraborty attended the 7<sup>th</sup> International Conference on Computational methods (ICCM2016) at California, USA from 01.08.16 to 04.08.16.

Prof. Anjan Dutta attended the 7<sup>th</sup> International Conference on Computational Methods (ICCM 2016) at University of California, Berkeley, USA from 01.08.16 to 04.08.16.

Dr. A. K. Maurya attended the “14<sup>th</sup> World Conference on Transport Research (WCTRS2016)” at Shanghai, China from 10.07.16 to 15.07.16.

Dr. A. Muruli Krishna Paper presentation at “Geo- Chicago 2016 conference and US- India workshop” at Sheraton Chicago Hotel & Towers, USA from 14.08.16 to 18.08.16 and to participate in the “MASW/ Surfesis workshop” at Kansas Geological Survey in Lawrence, Kansas, USA on 19.08.16.

Dr. Manish Kr Goyal attended the “Regional Workshop on Reviving Springs & Participatory Groundwater Management” at St. Louis University, USA from 17.08.16 to 19.08.16.

Dr. Ankit Garg attended the “5<sup>th</sup> UGSAS Symposium 2016 and roundtable meeting of UGSAS 12 ” at Gifu University Japan from 29.08.16 to 31.08.16.

Dr. Ankit Garg visited National Ilan University, Taiwan to explore academic and research collaborations from 05.09.16 to 08.09.16

Prof. Pranab Kumar Ghosh attended the “Putrajaya International Built – Environment, Technology and Engineering Conference (PIBEC 2016)” at Putrajaya, Malaysia from 24.09.16 to 25.09.16.

### Computer Science

Dr. V. V. Saradhi attended the “EMCL PKDD 2016” at Conference Centre, Riva del Garda, Italy from 19.09.16 to 23.09.16.

### Design

Dr. Sougata Karmakar attended the 7<sup>th</sup> International Conference on Applied Human Factors and Ergonomics 2016 at Florida, USA from 27.07.16 to 31.07.16.

Mr. Avinash Shende attended the “MED BY” Conference at Beer Sheva, Israel from 10.07.16 to 14.07.16.

Prof. Amarendra Kumar Das attended the “Nord Design 2016” conference at NTNU, Norway from 10.08.16 to 12.08.16.

Ms. Charu Monga attended the 5<sup>th</sup> UGSAS-GU Roundtable & Symposium 2016 at Gifu University Japan from 29.08.16 to 03.09.16.

Ms Charu Monga delivered an Invited talk at National Ilan University, Taiwan from 05.09.16 to 08.09.16.

Dr. Utpal Barua attended the “Art Camp Gernik” symposium at Timisoara, Romania from 23.09.16 to 02.10.16.

### Electronics

Dr. Smarajit Das attended the “2016 IEEE International Symposium on Information Theory (ISIT 2016)” at Barcelona, Spain from 10.07.16 to 15.07.16.

Prof. Prabin Kumar Bora attended the “9<sup>th</sup> International Symposium on Turbo Codes & Iterative Information Processing ” at Brest, France from 05.09.16 to 09.09.16.

Prof. Rohit Sinha attended the “INTERSPEECH 2016” at San Francisco, California, USA from 08.09.16 to 12.09.16.

Prof. S. R. M. Prasanna attended the “INTERSPEECH 2016” at San Francisco, California, USA from 08.09.16 to 12.09.16.

### Humanities

Prof. Nachiketa Tripathi attended the 31<sup>st</sup> International Congress of Psychology (ICP 2016) at Yokohama, Japan from 24.07.16 to 29.07.16.

Dr. Pranab Kumar Mondal visited King Mongkut’s University of Thonburi, Bangkok, Thailand for collaborative research work on Microscale heat transfer from 06.07.16 to 18.07.16.

Prof. Arupjyoti Saikia attended the “Assam: Textile Transmission and the performance of dance” conference at the British Museum, London, The United Kingdom from 08.07.16 to 09.07.16.

Dr. Ngamjahao Kipgen attended the 3<sup>rd</sup> ISA Forum of Sociology held at Vienna, Austria from 10.07.16 to 14.07.16

Dr. Naveen Kashyap attended the “23<sup>rd</sup> Congress of the European Sleep Research Society (ESRS) 2016” at Bologna, Italy from 13.09.16 to 16.09.16

Dr. Mithilesh Kumar Jha attended the “19<sup>th</sup> International Conference on Conceptual History” at Aarhus University, Denmark from 14.09.16 to 16.09.16.

### Mathematics

Dr. Shreemayee Bora attended the 20<sup>th</sup> Conference of the International Linear Algebra Society (ILAS 2016) at Leuven, Belgium from 11.07.16 to 17.07.16 and visit to TU Berlin prior to the conference to continue the joint research work from 02.07.16 to 10.07.16.

Prof. S. Natesan attended the “International Conference BAIL-2016 (Boundary and Interior Layers )” at Beijing, SAR China from 15.08.16 to 19.08.16.

Dr. Gautam Kumar Das attended the “ALGOSENSOR 2016” at Aarhus, Denmark from 22.08.16 to 26.08.16.

Dr. Kalpesh Kapoor attended the “Italian Conference on Theoretical Computer Science (ICTCS 2016)” at Lecce, Italy from 07.09.16 to 09.09.16.

Prof. Jiten Chandra Kalita attended the 14<sup>th</sup> International Conference of Numerical Analysis and Applied Mathematics (ICNAAM16) at Rhodes, Greece from 19.09.16 to 25.09.16.

### Mechanical

Prof. Uday Shanker Dixit attended the World Congress on Computational Mechanics and the 6<sup>th</sup> Asia-Pacific Congress on Computational Mechanics (WCCM XII & APCOM VI) at Seoul, Korea from 24.07.16 to 29.07.16.

Prof. Gautam Biswas attended the 4<sup>th</sup> International Conference on Computational methods for Thermal Problems (ThermaComp 2016) at Georgia Tech, Atlanta, USA from 06.07.16 to 08.07.16.

Prof. Rajiv Tiwari attended the “Vibrations in Rotating Machinery – VIRM 11” at University of Manchester, United Kingdom from 13.09.16 to 15.09.16.

Dr. S. Senthilvelan attended the “2<sup>nd</sup> International Conference on Polymer Tribology (PolyTrib 2016)” at Ljubljana, Slovenia from 15.09.16 to 16.09.16.

### Physics

Dr. Udit Raha was on an academic visit and collaborative research work at Yukawa Institute for Theoretical Physics, Kyoto, Japan from 04.07.16 to 19.07.16.

Dr. Bipul Bhuyan attended the 38<sup>th</sup> International Conference on High Energy Physics (ICHEP 2016) at Chicago, USA from 03.08.16 to 10.08.16.

Dr. Sovan Chakraborty attended the Flavour Observations with Supernova Neutrinos (16-61W), at National Institute for Nuclear Theory (INT), University of Washington, Seattle, Washington from 15.08.16 to 19.08.16.

Dr. Soumitra Nandi attended the “Precision theory for precise measurements at the LHC and future colliders” at International Centre of Interdisciplinary Science Education (ICISE) Quy Nhon, Central Vietnam from 25.09.16 to 01.10.16.



**Dr. Rupam Barman**  
Associate Professor  
Mathematics



**Dr. Dharamvir Ahluwalia**  
Visiting Professor  
Physics



**Dr. Vishv M Malhotra**  
Visiting Professor  
Computer Science



**Dr. Hiranya K Nath**  
Visiting Professor  
Humanities



**Dr. Chandana Karfa**  
Assistant Professor  
Computer Science



**Dr. Subhamay Saha**  
Assistant Professor  
Mathematics

New Joinings

## Distinguished Alumnus Award

Indian Institute of Technology Kharagpur conferred the Distinguished Alumnus Award to Prof. Gautam Biswas on the occasion of its **62nd Convocation** of the Institute on July 31 this year to seven eminent alumni for their “exceptional professional achievements in the industry, in the academia or as entrepreneur.”

Professor Gautam Biswas is an alumnus of IIT Kharagpur, received his PhD degree in Mechanical Engineering in 1985. Prof. Biswas was awarded the esteemed J C Bose National Fellowship by the Department of Science and Technology, Government of India in 2011. Professor Biswas presently the Director, Indian Institute of Technology Guwahati has an

illustrious academic career of 25 years having taught at IIT Kharagpur, IIT Kanpur and in various international universities and known for his leadership at IIT Kanpur, Central Mechanical Engineering Research Institute, Durgapur and now at IIT Guwahati.

His fundamental research on heat transfer phenomena is well recognised in the international academic community. He was the Founder Director of Academy of Scientific and Innovative Research (AcSIR), New Delhi."



BSBE

**Title:** Production of Hydrocarbon oil via hydrothermal Liquefaction (HTL) of recycled from HTL unit

**Funding Agency:** ONGC

**Principal Investigator:** Dr. Debasish Das

**Title:** BMP signalling in Osteolytic bone metastasis of breast cancer

**Funding Agency:** ICMR

**Principal Investigator:** Dr. Bithiah Grace Jaganathan

**Title:** Nanoenzymatic aptamer based electrocatalytic biomedical device prototype for diagnostic and therapeutic applications

**Funding Agency:** SERB

**Principal Investigator:** Dr. Pranjal Chandra

**Title:** Diphtheria toxin derived peptides for possible therapeutic uses

**Funding Agency:** SERB

**Principal Investigator:** Dr. Biplab Bose

**Title:** Mechanistic Insight of Shear Induced Aggregation of Proteins and the Effect of Transition Metal Ions

**Funding Agency:** SERB

**Principal Investigator:** Dr. Lalit Mohan Pandey

### Chemical

**Title:** Design and development of a membrane reformer prototype for production of Ultra-Pure Hydrogen from Methanol for Fuel Cell based vehicle and power generators

**Funding Agency:** DST

**Principal Investigator:** Dr. Rajesh Kumar Upadhyay

**Title:** An experimental investigation on the instability, self organization and micro-patterning of blended polymer and nanoparticle incorporated polymer thin film

**Funding Agency:** SERB

**Principal Investigator:** Dr. Partho Sarathi Gooh Pattader

**Title:** Indo-Japan Expert Committee Meeting on Symposium on advances in sustainable polymers (ASP-16)

**Funding Agency:** DST

**Principal Investigator:** Dr. Vimal Katiyar

**Title:** Ruthenium catalyzed C-H bond activation followed by carbo-/heterocyclization of Arenes/Heteroarenes

**Funding Agency:** SERB

**Principal Investigator:** Dr. Ritush Kumar (Mentor: Prof. B.K. Patel)

**Title:** Development of smart optically active electroactive hybrid block copolymer- biomacromolecule- quantum dot nanocomposites for ultrasensitive detection of biological analytes by electrical and fluorescence techniques

**Funding Agency:** SERB

**Principal Investigator:** Dr. Priyanka Dutta (Mentor: Dr. P.K. Iyer)

**Title:** Discotic liquid crystals for organic light emitting devices

**Funding Agency:** SERB

**Principal Investigator:** Dr. Hidayath Ulla (Mentor: Dr. A.S. Achalkumar)

**Title:** N-O/N-O-N type chiral bi/tridentate ligands and their metal complexes

**Funding Agency:** SERB

**Principal Investigator:** Dr. Braja Gopal Das, Mentor: Prof. B.K. Patel

**Title:** Synthesis, Characterization and Utilization of Radical-Containing Transition metal complexes for mechanistic understanding and catalysis

**Funding Agency:** SERB

**Principal Investigator:** Dr. Chandan Mukherjee

**Title:** Design and synthesis of polycyclic heteroarenes using rhodium catalyzed C-H activation and their live cancer cell imaging

**Funding Agency:** SERB

**Principal Investigator:** Dr. Kathirvelan Devarajan  
Mentor: Dr. T. Punniyamurthy

### Civil

**Title:** Geological and fluvial studies of Martian surface using the data of thermal infrared imaging spectrometer and Mars colour camera

**Funding Agency:** ISRO, Bangalore

**Principal Investigator:** Dr. Rishikesh Bharti

**Title:** Use of Industrial Waste Steel Slag in Design of Open Graded Asphalt Friction Courses

**Funding Agency:** DST

**Principal Investigator:** Dr. Rajan Choudhary

**Title:** Evidence comparison between Tharsis and Deccan Volcanic Provinces based on Geomorphology and Lithology

**Funding Agency:** ISRO, Bangalore

**Principal Investigator:** Dr. Archana M Nair

**Title:** Particulate Matter in North-East India: Source Identification and Mitigation Strategies

**Funding Agency:** SERB

**Principal Investigator:** Dr. Sri Harsha Kota

**Title:** Developing a sustainable construction practice to improve the resiliency of embankments of Brahmaputra using Bio-Mediated soil treatment and its impact on the river bank ecology

**Funding Agency:** SERB

**Principal Investigator:** Dr. Ravi K

### Computer Science

**Title:** Performance and energy optimization in many core processors using dynamic cooperation of cache memory, NoC and DRAM controller

**Funding Agency:** SERB

**Principal Investigator:** Dr. John Jose

### EEE

**Title:** Development of prototype fuel-cell battery hybrid energy system for DC traction motor

**Funding Agency:** SERB

**Principal Investigator:** Dr. Sanjib Ganguly

**Title:** Development of ESD I/O Pads for CCD Image Sensor for 0.18  $\mu\text{m}$  SCL Foundry

**Funding Agency:** ISRO

**Principal Investigator:** Dr. Gaurav Trivedi

### Mathematics

**Title:** Hypergeometric series in the p-adic setting, truncated hypergeometric series and supercongruences

**Funding Agency:** DST

**Principal Investigator:** Dr. Neelam Saikia, Mentor: HoD Maths

### Mechanical

**Title:** Experimental investigation on the roughness-surface wettability coupling in capillary filling in micro-channel

**Funding Agency:** SERB

**Principal Investigator:** Dr. Pranab Kumar Mondal

**Title:** Development of Plasma Arc Assisted Friction Stir Welding Process for Low Carbon Steels

**Funding Agency:** DRDO

**Principal Investigator:** Dr. Pankaj Biswas

**Title:** Design and development of automated flexible abrasive flow finishing (AF-AFF) process for finishing of micro to macro complex features

**Funding Agency:** DST

**Principal Investigator:** Dr. Mamilla Ravi Sankar

**Title:** Course on Turbulence Modelling

**Funding Agency:** TATA STEEL, Jamshedpur

**Principal Investigator:** Dr. Amaresh Dalal

### Physics

**Title:** Equilibrium and non-equilibrium properties of ultracold atoms with multibody interactions in optical lattices

**Funding Agency:** SERB

**Principal Investigator:** Dr. Manpreet Singh (Mentor: Dr. Tapan Mishra)

### Environment

**Title:** Development of ceramic membrane based process for treatment and recycling of textile effluent towards zero discharge concept

**Funding Agency:** DST

**Principal Investigator:** Dr. Kaustubha Mohanty

### Energy

**Title:** Development and performance analysis of nanofluid based dielectric fluid as an insulant and coolant in power transformers

**Funding Agency:** SERB

**Principal Investigator:** Dr. Sisir Kumar Nayak

### Nanotechnology

**Title:** Improving the stability and photoconversion efficiency of organolead halide perovskite solar cells (OHPSC) with novel nanostructured p-type semiconductors

**Funding Agency:** DST

**Principal Investigator:** Gayatri Natu



From left: Prof. Horie Takashi, Director International Affairs, KIT, Prof. Shinichi Sakurai, Department of Bio-based Materials, (KIT), Prof. Masao Furuyama, President of KIT, Prof. Gautam Biswas, Director, IIT Guwahati, Prof. Vimal Katiyar, Department of Chemical Engineering, IIT Guwahati, Prof. Rakhi Chaturvedi, Associate Dean, Alumni and External Relations, IIT Guwahati.

Prof. Vimal Katiyar of IIT Guwahati and Prof. Shinichi Sakurai of KIT organized an International Symposium on Advances in Sustainable Polymers in Kyoto during 4-6 August, 2016. There were several rounds of discussions on collaborative projects between Kyoto Institute of Technology (KIT) and IIT Guwahati.

## Patents

**Title:** Elastomeric seismic isolator with high damping capacity and manufacturing method thereof; **Inventor:** Sajal Kanti Deb, Anjan Dutta, Ngo Thuyet Van, Animesh Das.

**Title:** Nanoparticle Based Point-of-Care Lung Monitoring Device; **Inventor:** Mitradip Bhattacharjee, Dipankar Bandyopadhyay, Harshall B. Nemade.

**Title:** 3-D Seismoglotogram; **Inventor:** L. N. Sharma, S. R. M. Prasanna.

**Title:** Microfluidic Energy Harvester Producing Electrical Energy from Solar Energy, Surface Plasmon Resonance and Streaming Potential; **Inventor:** Mitradip Bhattacharjee, Seim Timung, Dipankar Bandyopadhyay and Tapas Kumar Mandal

भारतीय प्रौद्योगिकी संस्थान गुवाहाटी में प्रत्येक वर्ष की तरह वर्ष 2016 में भी हिंदी पखवाड़ा एवं हिंदी दिवस समारोह उत्साह एवं उल्लास के साथ मनाया गया। हिंदी पखवाड़ा के दौरान संस्थान के कर्मचारियों, संकाय सदस्यों, विद्यार्थियों, एवं परिसर के बच्चों के लिए कई प्रतियोगिताओं का आयोजन किया गया। कर्मचारियों एवं संकाय सदस्यों के लिए हिंदी कविता पाठ प्रतियोगिता और निबंध लेखन प्रतियोगिता का आयोजन किया गया। विद्यार्थियों के लिए हिंदी कविता लेखन, निबंध लेखन, और कविता पाठ प्रतियोगिताओं का आयोजन किया गया। इसके अलावा विद्यार्थियों द्वारा एक कवि सम्मेलन का भी आयोजन किया गया। सभी प्रतियोगिताओं में भारतीय प्रौद्योगिकी संस्थान परिवार के सदस्यों ने उत्साह के साथ भाग लिया। प्रतियोगिताओं के विजेताओं को हिंदी दिवस समारोह में पुरस्कार एवं प्रमाण पत्र प्रदान किए गए। पुरस्कार के रूप में विजेताओं एवं प्रतिभागियों को हिंदी पुस्तकें प्रदान की गईं।

14 सितंबर 2016 को देश भर के साथ भारतीय प्रौद्योगिकी संस्थान गुवाहाटी में भी हिंदी दिवस मनाया गया। हिंदी दिवस के अवसर पर संस्थान के डॉ.





भूपेन हाज़रिका प्रेक्षागृह में एक भव्य समारोह का आयोजन किया गया। इस समारोह में संस्थान के कर्मचारीगण, संकाय, विद्यार्थियों, एवं परिसर के कुछ बच्चों भी उपस्थित थे। माननीय निदेशक महोदय प्रो. गौतम बिश्वास एवं उपस्थित संस्थान के वरिष्ठ संकाय तथा अधिकारियों द्वारा पवित्र दीप प्रज्ज्वलन और गणेश वंदना के साथ समारोह का शुभारंभ किया गया। माननीय निदेशक महोदय और राजभाषा कार्यान्वयन समिति के कार्यकारी अध्यक्ष प्रो.उदय शंकर दीक्षित ने सभा को संबोधित किया। इसके उपरांत वरिष्ठ हिंदी अधिकारी द्वारा वर्ष 2015-2016 की राजभाषा कार्यान्वयन से सम्बंधित वार्षिक प्रतिवेदन प्रस्तुत की गई। इसके बाद माननीय निदेशक महोदय ने अपने कर कमलों से हिंदी पखवाड़ा के दौरान आयोजित सभी प्रतियोगिताओं के विजेताओं को पुरस्कार एवं प्रमाण पत्र प्रदान किए। हिंदी दिवस समारोह के अवसर पर संस्थान के सृजनात्मक केंद्र के सहयोग से एक सांस्कृतिक कार्यक्रम का आयोजन किया गया जिसमें केंद्र के विद्यार्थियों ने भाग लिया। समारोह के अंत में संस्थान के “ एक्सप्रेसंस द इमैटिक सोसाइटी ऑफ आई आई टी गुवाहाटी” के विद्यार्थियों द्वारा हिंदी के महत्व को दर्शाते हुए एक एकांकी नाटक प्रस्तुत किया गया। धन्यवाद ज्ञापन के साथ हिंदी पखवाड़ा एवं हिंदी दिवस समारोह 2016 औपचारिक रूप से संपन्न किया गया।



Prof. Ada E. Yonath, from Israel, who won the Nobel Prize in Chemistry in 2009, visited IIT Guwahati and delivered special lecture and talks in Techniche – the students’ annual techno-management festival of IIT Guwahati during 1-4 September 2016. Seen here Prof. Ada E. Yonath with Prof. Gautam Biswas, Director, IIT Guwahati and other officials

## Special Mention



Dr Sachin Kumar of Department of Biosciences and Bioengineering, has been awarded the prestigious NASI-SCOPUS Young Scientist Award 2016 in "Agriculture".

Dr Biman Mandal of Department of Biosciences and Bioengineering has been awarded the prestigious NASI-SCOPUS Young Scientist Award 2016 in "Medicine".



Prof. Rakhi Chaturvedi of Department of Biosciences and Bioengineering has been selected for Newton-Bhabha Fund Award: Cambridge-DBT Women Leadership Programme in Agriculture at Clare College Cambridge during 02-15 September, 2016.



Prof. S. K. Deb of Department of Civil Engineering Department has been selected for the "A. S. Arya-IITR Disaster Prevention Award" of IIT Roorkee for his outstanding contribution in the area of Disaster Prevention/ Mitigation. The award consists of cash award, a Gold Medal and a citation.



Prof. V. S. Moholkar, Chemical Engineering Department of IIT Guwahati has been selected as the Fellow of RSC (Royal Society of Chemistry).

## Techniche 2016

Started sixteen years ago in 1999, Techniche was conceptualized with an aim to motivate the youth of our nation to think out of the box, expand their horizons and reach the zenith of success in all techno-management spheres. Techniche has stayed true to its vision since; and from its humble beginnings, Techniche now revels in being one of the premier techno-management festivals of the nation. With a reach of thousands of colleges and school students from across the country, Techniche plays a phenomenal role in the bringing out the true potential of the nation's best and promoting technological and social betterment.

The 18th edition of this annual techno management festival kick started on 1 September 2016 at the Bhupen Hazarika auditorium. The chief guest of inauguration ceremony was Air Marshal C. Hari Kumar, AOC-in-C of Eastern Air Command and in presence of Prof. Gautam Biswas, Director, Prof. Chandan Mahanta, Dean of Student Affairs, Dr. Karuna Kalita, Chairman of Technical Board and many other delegates.

As a part of Techniche, many events including a lecture series, industrial conclave, technical workshops, robotic competitions, technical exhibitions, pro-nites, the Guwahati Half Marathon, blood donation etc.

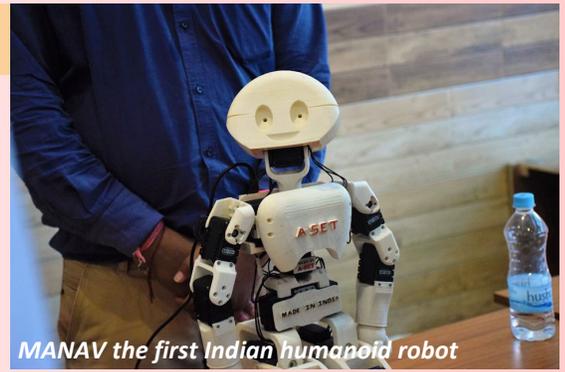
The various workshops organized included Swarm Robotics, Bridge Design, 3d Printing, Home Automation, Vehicle Overhauling, Internet of Things, Auto Mobile Design and Sketching, Web Development, Big Data and Hadoop, Brain Controlled Robotics, Ethical Hacking, Raspberry pi, Android App Development and Image Processing.



Prof. Ada Yonath, Nobel Prize Chemistry 2009

Prof. Ada E. Yonath, from Israel, who won the Nobel Prize in Chemistry in 2009 delivered a special lecture. Carlo Palazzani, the designer of the opulent and magnificent Ferrari Spyder458 awe struck the crowd by his lecture explaining various facts related to the modern automobile industry.

The audience was stunned with the admirable magic show by Praveen Pandita who is an urban illusionist and international magician.



MANAV the first Indian humanoid robot



LIMBITLESS SOLUTIONS, Team behind the famous Iron Man prosthetic arm



Carlo Palazzani



Ethical Hacking Workshop



Blood Donation Camp

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