IIT Guwahati bagged the second rank in a national level Swachh Campus Ranking 2018 of Higher Educational Institutions. The award presentation ceremony of Swachh Campus Ranking 2018 of Higher Educational Institutions was held in New Delhi on 1 October.

The rankings were announced by Union Human Resource Development Minister (HRD) Prakash Javadekar under different categories. The rankings were introduced by MHRD last year to encourage educational institutions towards cleanliness.

Institutions were judged on the basis of a number of parameters of cleanliness like student / toilet ratio, kitchen hygiene, availability of running water, modernity of toilet & kitchen equipment, campus green cover, garbage disposal in hostels and academic buildings, disposal techniques, water supply systems and also a certain weightage to whether the institutions have adopted any neighboring locality or village to spread awareness & activities in Swachhta.

Prof. S. K. Kakoti, Dean, IPM and Prof. P. K. Iyer, Prof. In-Charge, Peer Re-view & Institutional Ranking, IIT Guwahati, received the award on behalf of the Institute.
The Fifth Annual conference of Cognitive Science 2018 (ACCS 2018) was held at IIT Guwahati during 10th to 12th of October, 2018, hosted by the Center for linguistic Sciences and Technology. It was convened by Dr. Bidisha Som (HSS & CLST). The ACCS is an annual meeting of the Association of Cognitive Science (India), spearheaded by Prof. Harish Karnick (IIT Kanpur) and Prof. Narayanan Srinivasan (Center for Behavioral and Cognitive Sciences, Allahabad University), and brings together cognitive scientists from across the country. Cognitive science being an essentially interdisciplinary domain of inquiry, the meeting sees collaboration among researchers from fields as varied as Linguistics, Psychology, Computer Science, Anthropology, Philosophy and Neuroscience. This year’s meeting was no exception and a total of about one hundred and twenty participants presented their work through the three-day conference. The inauguration of the conference was graced by Prof. Gautam Biswas, honorable Director of IITG, Prof. Gautam Barua, honorable Director, IIT Guwahati and former Director, IIT Guwahati, Prof Rohit Sinha, acting Head, CLST and Head, EEE and Prof. Harish Karnick. The keynote speakers for the meeting were Prof. Massimo Warglien, (Laboratory for Experimental Economics and Department of Management, Universita Ca Foscari Venezia, Italy), Prof. Christian Freksa, (Director, Bremen Spatial Cognition Center, Bremen, Germany), Prof. Brendan Weekes, (Director, Laboratory of Communication Science, University of Hong Kong) and Dr. S P Arun (Vision Lab, Center for Neuroscience, Indian Institute of Science). Members of the departments of CLST, HSS, ME, EEE, BSBE and Design of IIT Guwahati actively participated in the conference through presentation of their work.
A short-term course under MHRD sponsored TEQIP-III on “Ergonomics in Design and Engineering Education” during 26/11/2018 to 30/11/2018 was organized by Center for Ergonomics, User Centred Design and Occupational Wellbeing. Ergonomics Laboratory Department of Design, IIT Guwahati. The event was hosted with support from KIT-CET (IIT Guwahati). Dr. Sougata Karmakar coordinated this short-term course with the support of an organizing committee comprising members of faculties, staffs and research scholars and students of Dept. of Design. The inauguration ceremony was graced by Prof. P S Robi, the Deputy Director, IIT Guwahati; Prof. Gopal Das, Dean R&D, IIT Guwahati; Prof. Krihananda, KAC, CET (IIT Guwahati); Dr. D Udaya Kumar, HoD, Dept. of Design, IIT Guwahati and Mr. Samiran Das, Chief Inspector of Factories, Govt. of Assam. The focus area of the short-term course was on the importance of ergonomics in design and engineering education. This short-term course covered various topics like industrial ergonomics; ergonomics; occupational health and safety; design research methodology; design innovation; ergonomics at workplace; ergonomics in product and facility design; ergonomics issue in better acceptance of design; ergonomics tools and techniques; ergonomics and packaging; virtual ergonomics and others.

This short-term course was attended by 68 participants from institutes, R&D organizations, and industries. The event was very successful as observed from the feedback by the participants.


(1) Dr. Sougata Karmakar

Conference/Seminar Abroad

BSBE

Dr. Aiyagari Ramesh presented a paper at “8th ASMC Conference on Biofilms” held at Washington DC, USA from 07.10.18 to 11.10.18.

Dr. Aiyagari Ramesh attended the “8th ASMC Conference on Biofilms” to be held at Washington DC, USA from 07.10.18 to 11.10.18.

Dr. Upal Bora was on a visit to University of Bordeaux to deliver lecture & participate in discussion for exploring research & academic collaboration at Bordeaux, France from 17.10.18 to 19.10.18.

Dr. Upal Bora presented a paper at “International Conference on Physics & Biological Systems” held at Paris, France from 22.10.18 to 24.10.18.

Dr. Upal Bora presented a paper “Evolutionary Emergency of Life Cycles” held at Pion, Germany from 26.10.18 to 29.10.18.

Dr. Bimal B. Mandal delivered an Invited talk & Chaired a session at “International Conference on Advances in Polymer Science & Technology” at Godawari village resort, Kathmandu, Nepal from 01.11.18 to 03.11.18.

Dr. Kannan Pakshirajan presented a paper at “International Conference on Challenges in Environmental Science & Engineering (CESE-2018)” held at The Sukosol Hotel, Bangkok, Thailand from 04.11.18 to 08.11.18.

Dr. Soumen Kumar Maiti presented a poster at “ALGAEUROPE – 2018 International Conference” held at Amsterdam, Netherlands from 04.12.18 to 06.12.18.

Chemical

Dr. Prasanna Venkatesh Rajaraman made an Oral Presentation at “XXIX Interamerican Congress of Chemical Engineering Incorporating the 68th Canadian Chemical Engineering Conference”, held at The Sheraton Centre, Toronto, Ontario, Canada from 28.10.18 to 31.10.18.

Dr. Subrata Kumar Majumder presented a paper at the “18th AIChE Annual Meeting”, held at David L. Lawrence Convention Centre, Pittsburgh, PA, USA from 28.10.18 to 02.11.18.

Dr. Prabirkumar Saha presented a paper at the “18th AIChE Annual Meeting”, held at David L. Lawrence Convention Centre, Pittsburgh, PA, USA from 28.10.18 to 02.11.18.

Dr. Mrhr Kumar Purskait presented a paper at the “18th AIChE Annual Meeting”, held at David L. Lawrence Convention Centre, Pittsburgh, PA, USA from 28.10.18 to 02.11.18.

Dr. G. Pugazhenthi made an Oral Presentation at the “11th International Conference on Challenges in Environmental Science & Engineering (CESE-2018)”, held at The Sukosol Hotel, Bangkok, Thailand from 04.11.18 to 08.11.18.

Dr. Ramgopal V. S. Uppaluri made an Oral Presentation at the “11th International Conference on Challenges in Environmental Science & Engineering (CESE-2018)”, held at The Sukosol Hotel, Bangkok, Thailand from 04.11.18 to 08.11.18.

Dr. Prabu Vairakannu made an Oral Presentation at “XXXIX Interamerican Congress of Chemical Engineering Incorporating the 68th Canadian Chemical Engineering Conference”, held at The Sheraton Centre, Toronto, Ontario, Canada from 28.10.18 to 31.10.18.

Dr. Parameswar K Iyer attended the “Editorial Advisory Board meeting of ACS Applied Bio Materials”, held at Institute of Chemistry, Chinese Academy of Sciences, Beijing, China from 01.12.18 to 03.12.18.

Dr. Chandan Mukherjee delivered an Invited Talk at “9th Asian Biological Inorganic Chemistry Conference”, held at National University of Singapore, Singapore from 09.12.18 to 14.12.18.

New Joinings

Dr. Sandeep Reddy Basireddy
Assistant Professor
Mechanical Engineering

Dr. Saajan Kapil
Assistant Professor
Mechanical Engineering

Patent applied

Title: Development of a cost effective media engineering strategy for improved butanol production.
Inventor: Debashis Das
Title: In-Situ beat to beat Blood Pressure Monitoring and recording using Cardiovascular Implantable Electronic Devices.
Inventor: S. Kanagaraj.
Title: Modular multi diagnostic device for rapid diagnostic tests at point of care and primary health care.
Inventor: Dipankar Bandyopadhyay.
Title: A method and device for model wavefront sensing with enhanced range of linear response.
Inventor: Bosanta Ranjan Boruah.
Dr. Anil Kumar Mishra presented a paper at the “8th International Congress on Environmental Geotechnics 2018” held at Sheraton Hangzhou Wetland Park Resort, Hangzhou, China from 28.10.18 to 01.11.18.

Dr. Konjengbam Darunkumar Singh was invited to participate in the conference at “Ninth International Conference on Advances in Steel Structures (ICASS 2018)” held at Hong Kong from 05.12.18 to 07.12.18.

Dr. Subhashis Dutta was invited to participate in the meeting at “American Geophysical Union Fall meeting December 2018” held at Walter E. Washington DC, USA from 10.12.18 to 14.12.18.

Civil

Dr. Chanan Singh Shekhawat presented a paper at the IEEE TENCON 2018 held at Jeju, South Korea from 28.10.18 to 31.10.18.

Design

Dr. Upal Barua participated in the “Belt an Road (2018, Design at Bandung, Indonesia from 15.11.18 to 18.11.18.

Dr. Durga Charan Dalai presented a paper at “International Conference on Drug Delivery & Nanomedicine”, held at Stockholm, Sweden from 09.10.18 to 12.10.18.


Computer Science

Dr. Sanasam Ranbir Singh presented a paper at the “International Conference on Asian Language Processing (IALP 2018)” held at Bandung, Indonesia from 15.11.18 to 18.11.18.

Dr. Diganta Goswami presented a paper at the “International Conference on Asian Language Processing (IALP 2018)” held at Bandung, Indonesia from 15.11.18 to 18.11.18.

Dr. John Jose attended the “12th IEEACM International Symposium on Networks – on Chip (NOC5)” and the “26th IFIP/IEEE International Conference on Very Large Scale Integration [VLSI-SOC]” at Torino, Verona, Italy from 04.10.18 to 05.10.18 and 08.10.18 to 10.10.18 respectively.

Dr. Anjit Sur presented a paper at “25th IEEE International Conference on Image Processing (ICIP) 2018” held at Athens, Greece from 07.10.18 to 10.10.18.

Electronics

Dr. Jyoti Prasad Chakraborty from IIT BHU, Prof. Sudipta De has provided a valuable lecture on Distributed energy solution: a few case studies with agricultural wastes of India.

This is to inform you that, the National Conference on Waste to Energy Conversion was organized by Department of Mechanical Engineering, NIT Mizoram in collaboration with IIT Guwahati sponsored by KIT-TEQIP-III during 28th-29th December 2018 at NIT Mizoram, Aizawl.

The inauguration of the conference held on 28th December 2018 was presided over by Prof. J. P. Chakraborty. Prof. Sudipta De has chaired the conference programme. Dignitaries present during the inaugural session included Dr. H. Lalhmingsanga, local coordinators of the event.

Four technical sessions were scheduled during the two days programme. A total of 49 abstracts were accepted for publication in the proceeding out of which 37 participants presented their research in the conference. Four prominent professors (Prof. Anupam Dewan from IIT Delhi, Prof. Jyoti Prasad Chakraborty from IIT BHU, Prof. Sudipta De from Jadavpur University and Dr. Ajay Kalamdhad from IIT Guwahati) were invited to deliver keynote lectures during the technical sessions. In every session a chairman facilitates the session and led the talks in the conference.

After the inauguration on Day 1, the first technical session was presided over by Prof. J. P. Chakraborty. Prof. Sudipta De has provided a valuable lecture on Distributed energy solution: a few case studies with agricultural wastes of India. The participants have presented their research work for the session as shown in the programme schedule. Post lunch on Day 1, the second technical session started with lecture from Prof. Chakraborty on the topic In Search of a suitable pretreatment method for Biomass Processing followed by the presentation by the participants for the session. The session was chaired by Prof. De.

Chemical


Dr. Dr. Bhupen Deka presented a paper at “2nd International Conference on Advances in Computational Mathematics”, held at Dept. Of Mathematics, Tribhuvan University, Kathmandu, Nepal from 23.12.18 to 24.12.18.

The national conference on waste to energy conversion was organized by Department of Mechanical Engineering, NIT Mizoram in collaboration with IIT Guwahati sponsored by KIT-TEQIP-III during 28th-29th December 2018 at NIT Mizoram, Aizawl.

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Mathematics


Humanities

Dr. Sukanya Sharma attended the the “2018 Annual Meeting of the American Anthropological Association (AAA-2018)” held at San Jose, California, USA from 14.11.18 to 20.11.18.

Dr. Chandan Kumar attended the 44th Annual conference of the IEEE Industrial Electronics Society, IEEECON 2018 at Washington DC, USA from 21.10.18 to 23.10.18.

Dr. Sanasam Ranbir Singh presented a paper at the “8th International Conference on Advances in Computational Mathematics”, held at Dept. Of Mathematics, Tribhuvan University, Kathmandu, Nepal from 23.12.18 to 24.12.18.

Chemistry


Dr. Subashisa Dutta was Invited to participate in the meeting at “American Geophysical Union Fall meeting December 2018” held at Walter E. Washington DC, USA from 10.12.18 to 14.12.18.

Dr. Anil Kumar Mishra presented a papers at the “8th National Conference on Waste to Energy Conversion” held at Dept. Of Mathematics, Tribhuvan University, Kathmandu, Nepal from 05.12.18 to 07.12.18.

The national conference on waste to energy conversion was organized by Department of Mechanical Engineering, NIT Mizoram in collaboration with IIT Guwahati sponsored by KIT-TEQIP-III during 28th-29th December 2018 at NIT Mizoram, Aizawl.

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After the inauguration on Day 1, the first technical session was presided over by Prof. J. P. Chakraborty. Prof. Sudipta De has provided a valuable lecture on Distributed energy solution: a few case studies with agricultural wastes of India. The participants have presented their research work for the session as shown in the programme schedule. Post lunch on Day 1, the second technical session started with lecture from Prof. Chakraborty on the topic In Search of a suitable pretreatment method for Biomass Processing followed by the presentation by the participants for the session. The session was chaired by Prof. De.
On the next day i.e. Day 2, the third technical session was presided over by Prof. Ajay Kalamdhad. Prof. Anupam Dewan has provided the keynote address on the topic Challenges in modelling of engineering turbulent Flows. After the keynote address, the participants have delivered their presentations of their work. Similarly, on the post lunch session of Day 2, the second technical session of the day started with lecture from Prof. Kalamdhad on the topic Biological Treatment of Biodegradable Waste. Prof. Dewan was the chairperson of the session. After the lecture of the keynote speaker, the participants started presenting their research outcomes. The certificates of participation were distributed to the participants by the chairperson of each session.

After the technical session on Day 2, there was a closing session of the conference. The invited professors for the event along with the coordinators and members of NIT Mizoram were present and given their opinion during the session. The vote of thanks was delivered by the coordinator of the conference. Lastly, all the participants were invited to give feedback and share their experience during the conference. After a few participants have shared their experience followed by a group photo session, the conference was concluded and closed.

A number of participants from different parts of India (CMERI Durgapur, IITG, IIT BHU, NIT Silchar, NIT Mizoram, Mizoram University, GIFT Bhubaneswar, PHE Aizawl, Tezpur University etc.) had taken part in the event. It was a successful conference and especially the local participants had gained many things from the conference. The local authorities were also very happy to have successfully organized the 1st conference in NIT Mizoram. IIT Guwahati and NIT Mizoram would like to thank KIT-TEQIP-III for sponsoring National Conference on Waste to Energy Conversion.

IITG-YNU Bilateral Symposium and Japan Education Fair

IIT Guwahati organised the Japan Education Fair in collaboration with the University of Tokyo, New Delhi Office on 31 October 2018. Representatives from top Universities in Japan and industry highlighted the benefits of studying in Japan. The event saw an enthusiastic response by students and faculty of IIT Guwahati. The Japan Education fair was preceded by a one day Bilateral Symposium with Yokohama National University on 30 October 2018. The symposium witnessed paper presentations from faculty members of Yokohama National University and IIT Guwahati.
Prof. Gautam Biswas, Director, IIT Guwahati, has been awarded Honorary Doctorate degree by the Aristotle University of Thessaloniki, Greece.

During the presentation of Honorary Doctorate Degree, Prof. Gautam Biswas, was presented with a replica of Greek Engineering marvel, Antikythera Mechanism that was developed in 200 BC.

Navodaya Regional Science Congress

The Regional Science Congress, comprising all the 83 Navodaya Vidyalayas (NVs) in the North East of India was conducted from the 2nd to the 7th of December, 2018 at IIT Guwahati. About 160 students and several teachers participated in and co-organized the event, which was attended by the Asst. Commissioner of the NVs along with 30 Principals. The program included special lectures by eminent faculty from different Departments and Centers—Physics, Chemistry, Biology, Mathematics, Computer Science, Design, Nanoscience and Energy. Visits were conducted to research labs such as the DST Organic Electronic Laboratory and the DBT program support laboratory, providing students with lab sessions, hands-on exercises and experimental demonstrations. Along with this, various in-house programmes such as model and poster presentations by the students and quizzes also took place.

The students and organizers from the Navodaya Vidyalaya stayed on campus and were part of sports and extracurricular activities such as star gazing conducted by the Astronomy Club of IITG. A Regional Congress was also organized to introduce students to advancements and opportunities in science and technology as well as to develop ingenious curiosity and motivate them to think innovatively.

TISS AESDII Eastern CSR Conclave

The TISS AESDII Eastern CSR Conclave was conducted from the 4th to the 6th of December, 2018 at IIT Guwahati to mentor the participating start-ups and deliberate upon policies and mechanisms for developing entrepreneurship opportunities in the North East of India. Along with the participants from the North-Eastern states, Start-ups from Karnataka, Tamil Nadu, West Bengal, Bihar, Chhattisgarh and Odisha participated in the event. The event was graced by a diversity of speakers representing the academia, industry, civil society, government, funding agencies, grassroots organizations along with eminent citizens, policy makers and industrialists over three days.

Global Initiative of Academic Networks (GIAN), an initiative of the Govt. of India for Higher Education, was started in 2016. The major aim of GIAN is to tap the international pool of talented scientists/entrepreneurs with an objective to encourage their engagement with the institutes of higher education in India. The initiative is focused upon augmenting the country’s existing academic resources, accelerate the pace of quality reforms, and elevate India’s scientific and technological capacity to global excellence. In the reporting year, 7 such courses were conducted by erudite scholars from international universities/institutions at the Institute.

The Institute is also engaged in creating e-course contents for the MHRD flagship program Central Sector Scheme-Massive Open Online Courses (OSS-MOOCs) where 38 video courses were delivered through the NPTEL online portal under the reporting year.

The Institute organized seven teacher training programs under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)—an MHRD, Govt. of India Initiative—for in-service teachers of Assam and other states of India.
Inter IIT Sports Meet 2018

The 53rd edition of the Inter IIT Sports was successfully organized by IIT Guwahati during December 13–21, 2018. With over 3500 participants, more than 50 events and 500+ matches, this edition was one of the biggest throughout the history of the Inter IIT Sports Meet. It was also the first time when the talent of the differently-abled individuals was acknowledged with the inclusion of para-powerlifting among other competitive sports. IIT Delhi was the overall champion of the event.

The subsequent 24th edition of the Inter IIT Staff Sports Meet was also organized by IIT Guwahati during December 24–28, 2018 in which around 800 staff and faculty members from almost all the IITs participated. IIT Guwahati was judged the Joint Champion in Men's Category along with IIT Delhi. IIT Bombay was judged as the Overall Champion as well as Champion in Women’s Category.

34th Inter IIT Aquatics Meet 2018

IIT Guwahati conducted 34th Inter IIT Aquatics Meet 2018 at IIT Guwahati during 3rd October – 7th October 2018. Altogether 147 participants and 26 team officials from 11 IITs has participated in the said meet. This is the biggest Inter IIT Aquatics Meet ever as most no of IIT has participated this year and the no of participants are also more than ever.

Inter IIT Aquatics Meet started on 3rd October with an opening ceremony and an Olympian Mr. Sajan Prakash grace the occasion as a Chief Guest and he inaugurate the Aquatics meet.

After the opening ceremony the most awaited 34th Inter IIT Aquatics Meet began. During this 05 days meet altogether 16 swimming events in Men category and 07 swimming events in Women category was conducted and 147 participants fought for 207 medals in this 05 days Aquatics Meet. In water polo 08 IIT was participated.

In swimming (Men) category IIT Madras took the champion trophy, 1st Runners up trophy taken by IIT Kharagpur and 2nd Runner’s Up trophy taken by IIT Delhi. In swimming (Women) category IIT Madras took the champion trophy, 1st Runners up trophy taken by IIT Bombay and 2nd Runner’s Up trophy taken by IIT Kanpur.

In swimming (Men) Anuj Sindgi of IIT Madras and Suraaj KS of IIT Roorkee jointly emerged as Best Swimmer. In swimming (Women) L.R.Kamala Devi of IIT Madras emerged as Best Swimmer. In water polo (Men) IIT Kharagpur became the champion team by defeating IIT Kanpur at the water polo finals and the IIT Madras got the third position. In Water Polo (Men) IIT Kharagpur became the champion team by defeating IIT Kanpur at the water polo finals and the IIT Madras got the third position. In Water Polo Amol Shil of IIT Kanpur got the Best Player Trophy and Pallav Kulhari of IIT Kharagpur has won Top Scorer Trophy in water polo.

Closing Ceremony of 34th Inter IIT Aquatics Meet was conducted on 7th October, 2018 with the Presence of the Director Prof. Gautam Biswas, who gave away the prizes to the winners. The meet concluded with the Vote of Thanks by Dean of Student Affairs Prof. Swaroop Nandan Bora.
Legal Awareness

The Equal Opportunity Cum Special Cell organized a Lecture titled legal awareness held on 14th November 2018 for SDGT, other employees and students. Mr. Rajib Bhattacharyya, Legal Assistant to Legal Remembrance & Under Secretary to the Government of Assam was the resource person. A large number of employees and students actively participated.

Celebration of International Day for Persons with Disabilities

IIT Guwahati is extending all its best efforts to implement “Accessible India Campaign (Sugamya Bharat Abhiyan)” launched by Ministry of Social Justice & Empowerment. Steps have been initiated by the Institute to achieve the goal of “Accessible India Campaign”.

IIT Guwahati complies with Rights of Person With Disabilities Act 2016 (RPwD Act, 2016) and to create awareness/sensitize people about significance of International Day for Persons with Disabilities 3rd December 2018, a poster campaign was arranged in campus.

Advocacy for Proactive Inclusiveness of PWDs

Due to advocacy and persuasion of the office of Equal Opportunity Cum Special Cell for first time in 53rd edition of inter IIT student’s sports meet hosted by IIT Guwahati, December 2018, Para Powerlifting Championship was held. The participants were from IIT Dharwad, Madras, Varanasi, Kanpur and Guwahati and results are as below.

Winners of Para Powerlifting Championship December 2018 in IIT Guwahati

Result of Above Under 65 Kg category
1st Place - Pavitra Singh, IIT Guwahati
2nd Place - Ajitesh Kumar Rai, IIT Madras
3rd Place - Mudassir Fajal, IIT BHU Varanasi

Result of Above Under 54 Kg category
1st Place - Gaurav Kumar, IIT Kanpur
2nd Place - Mohammad Sohail, IIT Madras
3rd Place - Uday Shankar Kumar, IIT Guwahati

Result of Above 54 Kg category
1st Place – Kuldeep Singh, IIT Madras
2nd Place - Rajkuma Mishra, IIT BHU Varanasi
3rd Place - Bhairav Pratap Singh, IIT Dharwad

Result of Above Under 65 Kg category
1st Place - Pavitra Singh, IIT Guwahati
2nd Place - Ajitesh Kumar Rai, IIT Madras
3rd Place - Mudassir Fajal, IIT BHU Varanasi
Invited Lectures of Departmental Faculty


Prof. Kannan Pakshirajan; “Sulfidogenic bioreactor for sustainable circular economy”; Department of mechanical engineering, IIT Guwahati; Guwahati; 21 December 2018.

Prof. Kannan Pakshirajan; “Waste biorefinery for sustainable circular economy”; Department of mechanical engineering, IIT Guwahati; Guwahati; 26 October 2018.

Prof. Kannan Pakshirajan; “Value added products from biomassgasification waste: A Springer biorefinery approach”; Department of Chemical engineering, Assam engineering college; Guwahati; India; 11 December 2018.

Dr. Biman B Mandal; “Silk based nanocomposites scaffolds for bone tissue engineering”; 3rd Annual Conference of ISNM “Nanobiotech-2018”; IIT Delhi and AIIMS; New Delhi; 24-27 October 2018.

Dr. Biman B Mandal; “Silk based human tissue engineering”; International Conference on Advances in Polymer Science & Technology; Kathmandu, Nepal; 1-3 November 2018.

Dr. Biman B Mandal; “Bioengineered Human Tissues”; Popular Lecture conducted by The National Academy of Sciences, India (NASI), NER Chapter; Shillong; 24 November 2018.

Dr. Biman B Mandal; “Engineered Human Tissues: The Way Forward”; International Conference on Biomedical Engineering and Technology; Roadway from Laboratory to Market”; Department of Biomedical Engineering, NIT Rourkee; 20-21 December 2018.

Dr. Biman B Mandal; “Signaling attributes in tissue engineering”; National Symposium on “From Genes to Network: Recent trends in Cell Signalling”, Amty University, Haryana; 14-15 December 2018.

Dr. Ajakumar B Kunnumakkara; “Oral Cancer Basics and Nature Based Solutions”; National Institute of Advanced Industrial Science and Technology (AIST); Tsukuba, Japan; 17 October 2018.

Dr. Ajakumar B Kunnumakkara; “Isoform Specific Role of Akt in Oral Cancer”; The 13 Anniversary India-Japan Fest BICON-2018 Biyani College; Jaipur; 26 November 2018.

Dr. Ajakumar B Kunnumakkara; “Isoform Specific Role of Akt in Oral Cancer”; Center for Cellular and Molecular Biology; Hyderabad; 23/11/2018.

Dr. Ajakumar B Kunnumakkara; “Oral Cancer Basics and Nature Based Solutions”; BioSD-2018 Indian Institute of Chemical Technology; Hyderabad; 24 November 2018.

Dr. Ajakumar B Kunnumakkara; “Isoform Specific Role of Akt in Oral Cancer”; Contemporary Excitement in New Biology, Nagaland University; 30 November 2018.

Dr. Ajakumar B Kunnumakkara; “Curcuminoïds a potential molecule to support all body systems & in the prevention and treatment of cancer”; Continued Medical Education (CME); Bangalore; 8 December 2018.

Dr. Ajakumar B Kunnumakkara; “Curcuminoïds a potential molecule to support all body systems & in the prevention and treatment of cancer”; Continued Medical Education (CME); Kanpur; 13 December 2018.

Dr. Ajakumar B Kunnumakkara; “Curcuminoïds a potential molecule to support all body systems & in the prevention and treatment of cancer”; Continued Medical Education (CME); Lucknow; 14 December 2018.

Dr. Ajakumar B Kunnumakkara; “Curcuminoïds a potential molecule to support all body systems & in the prevention and treatment of cancer”; Continued Medical Education (CME); Jaipur; 15 December 2018.

Dr. Surajbhan Sevda; “Bioelectrochemical system: Current status and future prospects”; Department of biological sciences, University of Calagry, Canada; University of Calagry; 21 December 2018.

Dr. Pankaj Kalita; “Renewable energy systems for remote applications; Mizoram Science Congress, Mizoram; 5 October 2018.

Chemical

Dr. Pranab Goswami; Bio-fuelcell; Department of Electronics and Communication Engineering, Tezpur University; Tezpur; 14 December 2018.

Prof. P. Mathukumara; Development and testing of large scale metal hydride based hydrogen storage device for automobile and stationary applications; IOCL, New Delhi; 7 December 2018.

Dr. Harsh Chaturvedi; National Power Training Institute (NPTI) Energy Storage systems; NPTI, Guwahati; 03-04 December 2018.

Dr. Harsh Chaturvedi; Nanoscience : from Lab to Industry Institute Lecture; Indian Institute of Nanoscience and Technology (INST); INST; Mohali; 16 December 2018.

Dr. Harsh Chaturvedi; Printed Electronics and Biosensors Institute of Microbial Technology (IMTECH), IMTECH, Chandigarh; 21 October 2018.

Mathematics

R. Barman; “Hypergeometric series in Arithmetic Geometry”; HRM; Allahabad; 8-11 October 2018.


Anupam Saikia; “Plenary Talk (On the continued fraction of ‘’); HRM; Allahabad; 9 October 2018.

Anugrah Singh; “Microstructure and rheology of shear thinning and shear thickening suspension”; COMFLU 2018, IIT Roorkee; Roorkee; 06-09 December 2018.

Siddhartha P. Chakrabarty; “Option Pricing Using Monte Carlo Simulation”; NIT Silchar; Assam; 3 October 2018.

Energy

Dr. Prankul Kalita; Renewable energy systems for remote applications; Mizoram Science Congress, Mizoram; 5 October 2018.

Prof. Pranab Goswami; Bio-fuelcell; Department of Electronics and Communication Engineering, Tezpur University; Tezpur; 14 December 2018.

Dr. Harsh Chaturvedi; National Power Training Institute (NPTI) Energy Storage systems; NPTI, Guwahati; 03-04 December 2018.

Dr. Harsh Chaturvedi; Nanoscience : from Lab to Industry Institute Lecture; Indian Institute of Nanoscience and Technology (INST); INST; Mohali; 16 December 2018.

Dr. Harsh Chaturvedi; Printed Electronics and Biosensors Institute of Microbial Technology (IMTECH), IMTECH, Chandigarh; 21 October 2018.

Rural Technology

Prof. S K Kakoty; Technology and Society, Reongi Asom, Tezpur; 8 December, 2018.

CLST

Samudravijaya K; Automatic Speech Recognition; NPOL, Kochi; 24 October 2018.
Visitors From Other Institutes

**BSBE**
- Dr. Rashmi Panigrahi; Department of Biochemistry, University of Alberta, Edmonton, Alberta, T6G 2H7, Canada; “Making sense of chaos in membrane proteins”; 19 December 2018.
- Dr. Raushan Singh; University of Massachusetts Medical School, USA; “SWRIC: A nucleosome editing machine”; 16 November 2018.
- Dr. Farid Badria; Faculty of Pharmacy, Mansoura University, Mansoura 35516 Egypt; “Natural Products: Preclinical and Clinical Applications of Untapped sources for Human Health Welfare”; 15 November 2018.
- Dr. G.P. Raja Sekhar; IIT Kharagpur; “Forrest and community: Model for a秉持公益 cause”; 13 November 2018.
- Prof. John N. Giannios; World Genomic Translational Medicine Organization; “ERADICATION OF CHEMO- RESISTANT METASTATIC CANCER STEM CELLS MEDIATED BY NANO SURGERY”; 13 November 2018.
- Dr. Saurav Haldar; Dana-Farber Cancer Institute, Boston, US; “New Insights in Influenza Viral Fusion”; 02 November 2018.
- Dr. Ajay Dixit; University of Minnesota, US; “Understanding the immune dynamics in inflammation and cancer”.

**Chemical**
- Aruna Ivaturi; Department of Pure and Applied Chemistry, University of Strathclyde, UK; “Smart nanomaterials synthesis to device development and optimization for applications in photovoltaics”; 18 December 2018.
- K. H. Aaron Lau; Department of Pure and Applied Chemistry, University of Strathclyde, UK; “Bio-inspired functional nanostructures with polymers, peptides and peptoids: environmental applications”; 18 December 2018.

**Mathematics**
- Dr. Samya Kumar Ray; IIT Kanpur; To delivered lectures; “Lp-Vol Neumann inequalities, from commutative to non-commutative”; 10 October 2018.
- Prof. G. D. Veerappa Gowda; TIFR CAM, Bangalore; To delivered lectures; “Conservative and non-conservative upwind schemes for weakly hyperbolic systems in gas dynamics”; 10 October 2018.
- Prof. P.B.S Bhadoria; RuTAG-IIT Kharagpur; “Forrest and community: Model for a秉持公益 cause”; 22 October 2018.
- Prof. S.K. Kakley; Technology and Society; Rengoni Asom, Tezpur; “Forrest and community: Model for a秉持公益 cause”; 03 December 2018.
- Prof. Damburu Bhattacharjee School of Mathematical and Statistical Sciences, University of Texas Rio Grande Valley, Edinburg, Texas, USA; To delivered lectures; “Hydro-thermal convective flow in a porous medium with vertically varying resistivity and diffusivity”; 31 December 2018.

**Energy**
- Prof. S K Kakley; Technology and Society; Rengoni Asom, Tezpur; 8 December, 2018.

**Rural Technology**
- Dr Masa Noguchi, University of Melbourne; ‘Mass customization in housing’; 15 December 2018.
- Mr. Kajal Saha, Project Manager, TRTC Amingaon; ‘To discuss the fabrication and other cost of fish cage design of RuTAG, IIT Bombay’; 22 October 2018.
- Prof. P.B.S Bhadoria, RuTAG-IIT Kharagpur; “To attend a meeting for STINER programme and discuss new initiative of RuTAG”; 22 October 2018.
- Rupali Kanolkar, RuTAG IIT Bombay; “To discuss the dissemination of fish cage under STINER in association with RuTAG NE, IIT Guwahati”; 22 October 2018.

The above mentioned STC was organized by the Centre for Rural Technology (CRT), IIT Guwahati (IITG) at the IIT Guwahati campus from 29th October to 2nd November 2018. Eighteen participants (Annexure-I) from various institutes and different strata attended this STC. We had 15 faculty and 03 student participants (Annexure-I). This STC was thoughtfully planned in to lectures, lab visits and discussions and also field visits and thus an attempt was made to provide the participants maximum exposure to the field of Rural Technology and a test of North East in this particular area.

**Recent advances in bioinspired nanomaterials for environmental applications**

The objective of this workshop is to teach and share the knowledge on the bio-inspired techniques for the synthesis and functionalization of nanostructured materials, with examples for environmental applications and beyond. The workshop covered the fundamentals and methodology for an effective immobilization of nanomaterials to minimize their loss and secondary environmental pollution. Topics include polyphenol and polydopamine coatings, nanoparticles, enzymes immobilization, and underlying aspects of nanomaterials and devices towards converting invisible light to visible. A topic of special interest was also on the remediation of wastewater and even killing of pathogens. Combining both the coating and photocatalytic activity of nanoparticles is emerging trend in the wastewater treatment to achieve complete reusability of the treated wastewater and to meet the zero discharge norms.
<table>
<thead>
<tr>
<th>Title</th>
<th>Funding Agency</th>
<th>Principal Investigator</th>
</tr>
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<tbody>
<tr>
<td>Understanding the Inhibiting Actions of Different Inhibitors on the Aggregation of Human Amylin Peptide.</td>
<td>DST</td>
<td>Sandip Paul.</td>
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<tr>
<td>Understanding molecular mechanism of calcium signaling in Neurospora crassa.</td>
<td>DBT</td>
<td>Ranjan Tamuli.</td>
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<tr>
<td>HUB and SPOKE consortium for 2W and 3W Electric Drives - Design, Development and Prototyping of advanced IM and Synchronous Reluctance Drives and vehicle integration for e2W and e3W vehicle Applications.</td>
<td>DST TDT</td>
<td>Praveen Kumar.</td>
</tr>
<tr>
<td>Modulation of Connexin-43 and Histone Deacetylase to Comprehend Cancer Therapy.</td>
<td>DBT</td>
<td>Siddhartha Sankar Ghosh.</td>
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<tr>
<td>Development of novel and efficient carbohydrate enzymes for bioenergy and biovalued products.</td>
<td>DBT</td>
<td>Arun Goyal.</td>
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<tr>
<td>Continuous Fermentative Production of D (-) Lactic Acid Using Whey as a Feedstock in Automated Membrane Integrated Bioreactor.</td>
<td>DBT</td>
<td>Venkatesh R. Prasanna.</td>
</tr>
<tr>
<td>Molecular platform for epidemiology, disease mapping and development of diagnostics for economically important diseases of ducks.</td>
<td>DBT</td>
<td>Sachin Kumar.</td>
</tr>
<tr>
<td>Deciphering the Role of Different Isoforms of AKT in the Development of Human Oral Squamous Cell Carcinoma (North-East Concept-ECD).</td>
<td>ICMR</td>
<td>Ajaikumar B Kunnumakkara.</td>
</tr>
<tr>
<td>Investigating the role of peroxisomes in Parkinson’s disease.</td>
<td>DBT</td>
<td>S. Nagotu.</td>
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<tr>
<td>Efficient utilization of sugarcane top for production of cellulosic ethanol and other value added products.</td>
<td>DBT</td>
<td>Arun Goyal.</td>
</tr>
<tr>
<td>Development and evaluation of peptide conjugated antitumor drugs in combination with nucleobases deaminases for controlled and targeted drug delivery.</td>
<td>DBT</td>
<td>Lal Mohan Kundu.</td>
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<tr>
<td>Numerical and theoretical investigation of different states of turbulence in counterflow superfluid turbulence in a channel</td>
<td>DST</td>
<td>Debasish Borah.</td>
</tr>
<tr>
<td>Particle Dark Matter Beyond the WIMP Paradigm: Model Building and Phenomenological Studies.</td>
<td>SERB</td>
<td>Subashis Dutta.</td>
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<tr>
<td>Integrated use of WRF-Hydro and space based inputs for flood forecasting.</td>
<td>ISRO</td>
<td>Chandan Kumar.</td>
</tr>
<tr>
<td>Design, control and management of distributed generation in microgrid.</td>
<td>DST</td>
<td>Chandan Mahanta.</td>
</tr>
<tr>
<td>Corrosion of carbon steel (API 5L X60) in CO2-H2S medium in the presence of volatile fatty acids.</td>
<td>ONGC</td>
<td>Venkatesh R. Prasanna.</td>
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