

National Conference on Recent Advances in Science and Technology (NCRAST-2019)



Date: 15th, 16th, and 17th May 2019



Venue
NEDFi Convention Center,
NEDFi House, G. S. Road, Dispur, Guwahati,
Assam. PIN - 781006

PROGRAMME SCHEDULE

Day 1: 15 May, 2019 (Wednesday)

09.00-10.00 hrs	Registration
10.00-10.45 hrs	Inaugural Ceremony
	10.00-10.05 hrs Lighting of lamp
	10.05-10.15 hrs Felicitation
	10.15-10.20 hrs Welcome Speech by Prof. Dhiraj Bora, Vice Chancellor, <i>Assam Science and Technology University</i>
	10.20-10.30 hrs Speech by Guest of Honour: Prof. B. N. Goswami, FNA, FASc, FNASc, FTWAS, <i>SERB Distinguished Fellow, Cotton University, Guwahati</i>
	10.30-10.40 hrs Speech by Chief Guest: Prof. V K Jain, Vice Chancellor, <i>Tezpur University</i>
	10.40-10.45 hrs Vote of thanks
10.45-11.10 hrs	High Tea
Technical Session-01	
11.10-11.50 hrs	Keynote Speakers Speaker: Prof. B. N. Goswami, FNA, FASc, FNASc, FTWAS, SERB Distinguished Fellow, Cotton University, Guwahati Topic: Advances in Science and Technology drives A Revolution in Weather Forecasting
11.50-12.25 hrs	Plenary Talk-01 Speaker: Prof. Dhiraj Bora, Vice Chancellor, Assam Science and Technology University, Guwahati Topic: Global Energy Options for the Future
12.25-13.00 hrs	Invited Speakers' Speech -01 Speaker: Prof. Vilas G. Gaikar, Institute of Chemical Technology, Mumbai
13.00-14.00 hrs	Lunch and Poster presentation**
Technical Session-02	
14.00-14.35 hrs	Invited Speakers' Speech -02

	Speaker: Prof. Arup Kumar Sarma, Indian Institute of Technology Guwahati Topic: Mathematical Modelling for Managing Sediment: Need, Challenges and Opportunity
14.35-14.50 hrs	Oral Presentation-01 Presenter: Amit Kr. Singh Topic: Formic Acid-Powered Ferrobots for Energy Generation
14.50-15.05 hrs	Oral Presentation-02 Presenter: Ritun Chakraborty Topic: Optical and Electrical Properties of Cation Exchanged Hybrid Semiconductor Nanowires
15.05-15.25 hrs	Tea
Technical Session-03	
15.25-16.00 hrs	Invited Speakers' Speech -03 Speaker: K. Manjulavani, JNTUH-CEH, Hyderabad Topic: Remote Sensing Applications in Engineering
16.00-16.15 hrs	Oral Presentation-03 Presenter: Debdeep Saha Topic: Improvement of dynamic stability of an Interconnected Power System Incorporating Modified Static Series Synchronous Compensator
16.15-16.30 hrs	Oral Presentation-04 Presenter: B. Rabha Topic: Development of Herbal Mosquito Larvicidal Floating Tablet

Day 2: 16 May, 2019 (Thursday)

Technical Session-04	
10.00-10.35 hrs	Plenary Talk-02 Speaker: Dr. Ashok Das, College of Social Sciences University of Hawai'i at Mānoa Topic: How pro-Poor Shelter Innovations Yielded Lasting Transformations: Urban Planning Lessons from Surabaya, Indonesia
10.35-11.10 hrs	Invited Speakers' Speech -04 Presenter: Dr. A. K. Pandey, RLB Central Agricultural University, Jhansi Topic: Recent Advances in Post Harvest Management and Value Addition of Horticultural Crops
11.10-11.25 hrs	Tea
Technical Session-05	
11.25-12.00 hrs	Invited Speakers' Speech -05 Speaker: Prof. M. V. S. S Giridhar, Jawaharlal Nehru Technological University, Hyderabad Topic: Dissemination of Rooftop Rainwater Harvesting Approach in Fluoride Affected Regions of Nalgonda
12.00-12.15hrs	Oral Presentation-05 Presenter: Rubul Kumar Bania Topic: Automatic Removal of Pectoral Muscle from Mediolateral Oblique View Mammograms
12.15-12.30 hrs	Oral Presentation-06 Presenter: Deepjyoti Kalita Topic: Design and Analysis of Brain Tumor Detection System using Convolutional Neural Networks in MRI Images
12.30-12.45 hrs	Oral Presentation-07 Presenter: Dipankar Das Topic: Stability Results for Fixed Point Problems in C*-algebra Valued Modular Metric Spaces
12.45-14.00 hrs	Lunch and Poster presentation**

Technical Session-06	
14.00-14.35 hrs	Invited Speakers' Speech -06 Speaker: Prof. Prodeep Phukan, Gauhati University, Guwahati Topic: Task Specific Modification of Cobalt Ferrite Magnetic Nanoparticles for Catalytic Applications
14.35-14.50 hrs	Oral Presentation-08 Presenter: Shamima Begum Topic: Biogenic Fabrication of Activated Carbon/ SnO ₂ Nanocomposite for the Photocatalytic Removal of Organic Dye
14.50-15.05 hrs	Oral Presentation-09 Presenter: D. Kumar Topic: Looking for spatial variations in tectonic activities in the Manas River basin and its peripheral areas taking aids of geomorphological parameters derived from remote sensing data
15.05-15.25 hrs	Tea
Technical Session-07	
15.25-16.00 hrs	Invited Speakers' Speech -07 Speaker: Prof. P. L. N. Raju, Director, North East Space Application Centre, Shillong Topic: Role of Space Technology for development and governance in North East
16.00-16.15 hrs	Oral Presentation-10 Presenter: S. Biswas Topic: Determination of the Electric Field Distribution near the Anode Surface of a SMP Diode
16.15-16.30 hrs	Oral Presentation-11 Presenter: B. Gogoi Topic: Impact of GIS based Improved Cook Stove distribution on rural livelihood
19.00-20.30 hrs	Conference Dinner

Day 3: 17 May, 2019 (Friday)

Technical Session-08	
10.00-10.35 hrs	Invited Speakers' Speech -08 Speaker: Prof. S. K. Deb, Assam Engineering College, Guwahati Topic: Manufacturing Resource Planning by Fuzzy Multi Criteria Decision Making Methods
10.35-11.10 hrs	Invited Speakers' Speech -09 Speaker: Dr. Prasenjit Saikia, CSIR-North East Institute of Science and Technology, Jorhat Topic: Can North East India be the Bio-energy hub of Indian economy?
11.10-11.30 hrs	Tea
Technical Session-09	
11.30-12.05 hrs	Invited Speakers' Speech -10 Speaker: Dr. J. P. Kalita, Apollo Hospitals, Guwahati, Topic: Minimally Invasive Cardiac Surgery - Recent Advances
12.05-12.20 hrs	Oral Presentation-12 Presenter: Sekhadri Medhi Topic: Modified Montmorillonite Clay: An efficient and environmentally benign Catalyst for Acetylation Reaction
12.20-12.35 hrs	Oral Presentation-13 Presenter: Satya Ranjan Neog Topic: Extraction of Potassium from Banana Plant (<i>musa-balbisiana</i>)
12.35-12.50 hrs	Oral Presentation-14 Presenter: Abhijit Dey Topic: Development of an Index for Ranking of Electrodes in Shielded Metal Arc Welding

	Process
12.50-14.00 hrs	Lunch and Poster presentation**
Technical Session-10	
14.00-14.35 hrs	Invited Speakers' Speech -11 Speaker: Prof. (Dr.) Amarendra Rajput, Royal Global University, Guwahati
14.35-14.50 hrs	Oral Presentation-15 Presenter: Pankaj Kalita Topic: Effect of size specific gold nanoparticle on the liver and brain tissue homogenate and mitochondrial extract in experimental animal model
14.50-15.05 hrs	Oral Presentation-16 Presenter: Jimpi Anan Topic: Application of Grey Relational Analysis and Response Surface Methodology for Optimization of Drying Parameters of a Solar Dryer
15.05-15.30hrs	Tea
15.30-16.30 hrs	Valedictory session

****Poster presentation**

- ✓ Authors, selected for poster presentation are responsible for mounting their posters of their presentation on or before 10.00 AM and must remain on display upto 4:30 PM on the assigned presentation day. All posters must be removed by 5:00 PM on the day of presentation.
- ✓ The detail guidelines for poster presentation is available in the NCRASST 2019 website.