

CSIR-North East Institute of Science & Technology, Jorhat
Connecting Science & Technology for a Brighter Tomorrow

CSIR-NEIST celebrated National Technology Day 2016



Dr Ch Mohan Rao, Former Director, CSIR-Centre for Cellular & Molecular Biology, Hyderabad, delivering Technology Day Lecture 2016 at CSIR-NEIST.

CSIR-NEIST celebrated National Technology Day 2016 with a special program held at Dr J N Baruah Auditorium on 11 May, 2016. Dr Ch Mohan Rao, Former Director, CSIR-Centre for Cellular and Molecular Biology, Hyderabad graced the occasion as Chief Guest and delivered the Technology Day Lecture. The program was presided over by Dr D Ramaiah, Director, CSIR-NEIST. Speaking on the topic, “Science & Technology for Social Good”, Dr Rao gave an account of the changes that led to human civilization from Stone Age to the Modern day technology age through science. He illustrated the various contributions of India towards the growth and development of humanity such as the Vedic classification, Number Names, Process for extraction of Zinc from its ore, Quadratic equation, Discovery of plant cell (Rosa Kosha) etc. He also mentioned some of the significant achievements of CSIR to indelible ink, indigenous supercomputer, Amul milk food, ground water exploration for potable water and a host of generic drugs in the healthcare sector. Conveying his message on the day, he encouraged everyone present to take this day as a chance to think and come up with relevant solutions for the problems faced by the people of the country. “We need to

have empathy, compassion and foresight to use science for social good”, he opined. Earlier Dr D Ramaiah, Director, CSIR-NEIST delivered the welcome address and introduced the Chief Guest to the gathering. He also recalled the message by Director-General, CSIR to all CSIR scientists earlier during the day through Video-Conference. Later, CSIR-NEIST Annual Report 2015-16 was released by the Chief Guest. The programme concluded with vote of thanks rendered by Dr S P Saikia, Sr Scientist, CSIR-NEIST.

Societal Activities

CSIR-NEIST imparts training on Mushroom cultivation



Trainees from 5 Air Force Hospital, Jorhat (left) and student trainees of AcSIR (right).

Under CSIR 800 project titled, “Rural Entrepreneurship and Skill Development through Demonstration and Training of Appropriate Technologies of CSIR-NEIST”, CSIR-NEIST organized a series of training program on Mushroom cultivation during the month. A batch of 13 nominated personnel of 5 Air force Hospital, Jorhat received the training held at CSIR-NEIST premise on 3 May, 2016. This was followed by two programs held on 10.05.2016 and 21.05.2016 wherein 9 AcSIR students received the training as a part of their academic curricula concerned with societal/rural issues. The training covered detail demonstration on cultivation practice and knowledge dissemination about the health benefits of Mushroom and processing of the same to produce

Great minds discuss ideas, average minds discuss events, small minds discuss people.

Eleanor Roosevelt

value added products. The programs were coordinated by Dr S P Saikia, Senior Scientist & PI of the project.

Papers published

International Journals

- Saikia P K, Sarmah P P, Borah B J, Saikia L, Saikia K, Dutta D K: Stabilized Fe₃O₄ magnetic nanoparticles into nanopores of modified montmorillonite clay: a highly efficient catalyst for the Baeyer Villiger oxidation under solvent free conditions, *Green Chemistry*, 2016, 18 p: 2843-2850.
- Dey T, Dutta P, Prasenjit M, Kalita J, Deka Boruah H P, Buragohain Alak Kumar, Unni B G, Ozah D, Goswami M K, Kotokey R K: Cigarette smoke compounds induce cellular redox imbalance, activate NF- κ B, and increase TNF- α /CRP secretion: a possible pathway in the pathogenesis of COPD, *Toxicology Research*, 2016, 5 p: 895-904.
- Darabdhara G, Boruah P K, Borthakur P, Hussain N, Das M R, Ahamad T, Alshehri S M, Malgras V, Wu K C W, Yamauchi Y: Reduced graphene oxide nanosheets decorated with Au-Pd bimetallic alloy nanoparticles towards efficient photocatalytic degradation of phenolic compounds in water, *Nanoscale*, 2016, 8(15), p: 8276-8287.
- Leo V V, Passari A K, Joshi J B, Mishra V K, Uthandi S, Ramesh N, Gupta V K, Saikia R, Sonawane V C, Singh B P: A novel triculture system (CC3) for simultaneous enzyme production and hydrolysis of common grasses through submerged fermentation, *Frontiers in Microbiology*, 2016, 7(Mar), p: 447.
- Das T, Boruah P K, Das M R, Saikia B K: Formation of onion-like fullerene and chemically converted graphene-like nanosheets from low-quality coals: Application in photocatalytic degradation of 2-nitrophenol (Article), *RSC Advances*, 2016, 6 (42), p: 35177-35190.
- Baruah R, Kalita D J, Saikia B K, Gautam A, Singh A K, Deka Boruah H P: Native hydrocarbonoclastic bacteria and hydrocarbon mineralization processes (Article), *International Biodeterioration and Biodegradation*, 2016, 112 p: 18-30.
- Saikia I, Sonowal S, Pal M, Boruah P K, Das M R, Tamuly C: Biosynthesis of gold decorated reduced graphene oxide and its biological activities, *Materials Letters*, 2016, 178(1), p: 239-242.

Farewell

The following members of the staff have retired from Council's service on superannuation from CSIR-NEIST on 31 May, 2016.

1. Mr Basanta Sarma, Sr Technical Officer
2. Mr Tuledhar Bora, Technician
3. Mr Baba Saikia, Lab Assistant
4. Mr Makhan Bora, Lab Assistant