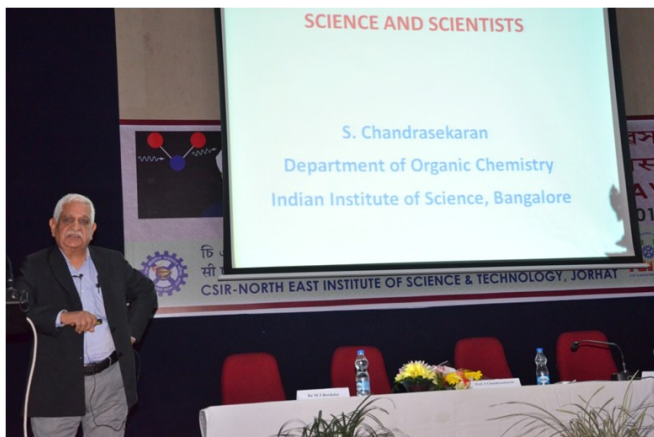


CSIR-North East Institute of Science & Technology, Jorhat

Connecting Science & Technology for a Brighter Tomorrow

CSIR-NEIST celebrated National Science Day 2018



Prof S Chandrasekaran delivering the National Science Day Lecture on 'Science and Scientists'.



Shri Bedanta P Sharma delivering his address on the occasion. Dignitaries seated on the dais (L-R): Dr M J Bordoloi, Head-Chemical Science & Technology Division, CSIR-NEIST; Prof S Chandrasekaran, FASc, FNA, FTWAS and SERB Distinguished Fellow & Chief Guest; Dr D Ramaiah, Director, CSIR-NEIST and Dr P Sengupta, Head-Materials Science & Technology Division, CSIR-NEIST.

CSIR-North East Institute of Science & Technology celebrated National Science Day 2018 on 28 February, 2018 with a day-long programme at its premise. The Science Day function was held at Dr J N Baruah Auditorium which was presided over by Dr D Ramaiah, Director, CSIR-NEIST. Prof S Chandrasekaran, FASc, FNA, FTWAS and SERB Distinguished Fellow graced the function as Chief Guest while Shri Bedanta P Sharma, Residential Chief Executive (RCE), OIL, Duliajan was present

as Guest of Honour. Dr D Ramaiah delivered the welcome address wherein he highlighted the significance of Science Day in India and said that the Day is celebrated to commemorate the discovery of 'Raman Effect' by Indian Physicist, Sir C V Raman on 28 February, 1928. He also briefed some achievements of the Institute in the year 2017 particularly in terms of technologies transferred and commercialized.

Delivering the Science Day Lecture on the topic, 'Science and Scientists', Prof Chandrasekaran reiterated the theme for this year's National Science Day celebration which is, 'Science & Technology for Sustainable Future' and spoke about how science is pertinent to all sections of the society for the country's overall growth and development. Prof Chandrasekaran in his lecture touched upon several aspects of life of a scientist and his role in the society. He emphasized upon cultivating right attitude and mentioned the various attributes that scientists should inculcate. He particularly stressed on maintaining effective time management, persistence, ethics, humility and honesty. He also gave useful insights on matters like, how to choose right research projects, choosing right place to work and the difference in doing basic science & applied science. He further recalled the works of great scientists of yester years that India had like, Prof J C Bose towards globalization of science, Homi J Bhabha in bringing Atomic Energy Commission and Vikram Sarabhai towards Space Technology. In his address, Shri Bedanta P Sharma spoke about the importance of sustainable development through science & technology applications and mentioned the various initiatives taken by OIL to support Govt. of India programmes like Swachh Bharat, Swastha Bharat, Clean India, etc. under Corporate Social Responsibility (CSR) scheme towards education, sustainable livelihood, skill development and women empowerment especially in rural areas of this region. He also emphasized that R&D Institutions/Academia and Industry should work together for solving societal problems. On the occasion, the Institute also transferred its two technologies viz., 'Improved Variety of Citronella (Jor Lab C-5)' and 'Essential Oil Distillation Unit' to M/s

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General George Patton

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S S Enterprise from Bokajan, Assam and M/s Nagi Trade & Industries, Tinsukia, Assam respectively. The technology packages were handed over to the companies by the Director, CSIR-NEIST during the function. The programme concluded with vote of thanks offered by Dr M J Bordoloi, Head, Chemical Science & Technology Division. The programme was largely attended by CSIR-NEIST fraternity and invited guests.



Dr D Ramaiah, Director, CSIR-NEIST handing over the know-how packages on 'Improved variety of Citronella (Jor Lab C-5)' to Mr Sankar Das, Proprietor, S S Enterprise, Bokajan (top) and design package on 'Essential oil distillation unit' to Mr Raghbir Singh Nagi, Proprietor, Nagi Trade & Industries, Tinsukia (just above) in presence of the technology team members and other dignitaries during National Science Day celebration at CSIR-NEIST on 28.02.2018.

CSIR-NEIST signed MoU with Hills Integrated Society, Karbi Anglong for CSIR Aroma Mission

CSIR-NEIST signed MoU with Hills Integrated Society, Karbi Anglong, Assam on 13 February 2018



Dr D Ramaiah, Director, CSIR-NEIST exchanging the signed MoU with representatives from Hills Integrated Society, Karbi Anglong in presence of CSIR Aroma project team & other staff members.

with an aim to promote cultivation of Medicinal & Aromatic Plants under 'CSIR Aroma and Phyto-pharmaceutical Mission'. Under the MoU, 180 hectares of area in Karbi Anglong district will be covered under the mission.

CSIR-NEIST branch lab, Itanagar organized training programme on Mushroom cultivation



Trainees undergoing hands-on training on preparation of Mushroom bags & cultivation method under the guidance of Dr Budhen Ch Baruah, Sr Technical Officer.

CSIR-NEIST Branch Itanagar organised a training programme on Mushroom cultivation at Pachin colony, Itanagar on 24 February 2018. Dr Budhen Ch Baruah, Senior technical officer, discussed about the medicinal and food value of edible Mushroom which is a rich source of vitamin D. He also mentioned the potential of its organised cultivation on

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Group photo of the trainees along with organizing team from branch lab.

micro, mini and marginal level for self sustenance and stressed on domestic cultivation of known varieties available at branch lab. A practical demonstration on preparation of mushroom bags & cultivation method was extended to the trainees during the programme. About 25 trainees mostly women from Pachin colony attended the training programme Later, about 40 packets of Mushroom spawn (seeds) were distributed to the participants as an encouragement for trial base cultivation.

Papers published

In International Peer Reviewed Journals

1. Lal M, Dutta S, Munda S, Pandey S K: Novel high value elemicin-rich germplasm of lemon grass (*Cymbopogon khasianus* (Hack) Stapf (ex Bor) from North East India, *Industrial Crops and Products*, 2018, 115 p: 98-103
2. Kolita Sinki, Bhuyan Pulak J: An Efficient Synthesis of Pyrido[3, 2-c]coumarins under Microwave Irradiation in Solvent-Free Conditions, *Chemistry Select*, 2018, 3(5), p: 1411-1414
3. Darabdhara G, Das M R: Bimetallic Au-Pd nanoparticles on 2D supported graphitic carbon nitride and reduced graphene oxide sheets: A comparative photocatalytic degradation study of organic pollutants in water, *Chemosphere*, 2018, 197 p: 817-829
4. Dutta S, Munda S, Chikkaputtaiah C, Lal M: Assessment of Selection Criteria for Development of High Yielding Genotypes Using Variability Parameters in Lemongrass *Cymbopogon flexuosus* L., *Journal of Essential Oil-Bearing*

5. Borah B, Ahmed R, Hussain M, Phukon P, Wann S B, Sarmah D K, Bhau B S: Suppression of root-knot disease in *Pogostemon cablin* caused by *Meloidogyne incognita* in a rhizobacteria mediated activation of phenylpropanoid pathway, *Biological Control*, 2018, 119 p: 43-50.
6. Borthakur P, Das M R: Hydrothermal assisted decoration of NiS₂ and CoS nanoparticles on the reduced graphene oxide nanosheets for sunlight driven photocatalytic degradation of azo dye: Effect of background electrolyte and surface charge, *Journal of Colloid and Interface Science*, 2018, 516 p: 342-354.
7. Saikia J, Sarma R K, Dhandia R, Yadav A, Bharali R, Gupta V K, Saikia R: Alleviation of drought stress in pulse crops with ACC deaminase producing rhizobacteria isolated from acidic soil of Northeast India, *Scientific Reports*, 2018, 8:3560 p: 1-16.
8. Dey T, Dutta P, Manna P, Kalita J, Deka Boruah H P, Buragohain A K, Unni B G: Anti-Proliferative Activities of Vasicinone on Lung Carcinoma Cells Mediated via Activation of Both Mitochondria-Dependent and Independent Pathways, *Biomolecules Therapeutics*, 2018, 26(2), p: 1-8.
9. Allou N B, Yadav A, Pal M, Goswamee R L: Biocompatible nanocomposite of carboxymethyl cellulose and functionalized carbon-norfloracin intercalated layered double hydroxides, *Carbohydrate Polymers*, 2018, 186 p: 282-289, **Highest Impact Factor Paper (IF: 4.811)**.
10. Allou N B, Saikia J, Goswamee R L: Use of calcined Mg-Al layered double hydroxides to regulate endocrine disruptor methylparaben in excess as adsorbent and as control releasing agent in normal situations, *Journal of Environmental Chemical Engineering*, 2018, 6 p: 1189-1200

Farewell

The following member(s) of the staff have retired from Council's service on superannuation/resigned/voluntarily retired from CSIR-NEIST in February 2018.

1. Mr Gurucharan Rohidas, Lab Assistant
2. Mr Kiran Saikia, Lab Assistant