

## CSIR-North East Institute of Science & Technology, Jorhat

Connecting Science & Technology for a Brighter Tomorrow

### CSIR-NEIST celebrated National Technology Day 2017



Prof. R K Khandal, President, R&D Business Development, India Glycols Ltd. Noida, delivering the National Technology Lecture on 'Role of CSIR in making Chemical Industry Self Sustainable'.



Prof. R K Khandal releasing the compendium on CSIR-NEIST technologies in presence of Dr D Ramaiah, Director, CSIR-NEIST.

CSIR-NEIST celebrated National Technology Day on 11 May 2017 with a special programme held at Dr J N Baruah Auditorium. Prof R K Khandal, President R&D Business Development, India Glycols Ltd. Noida, graced the occasion as Chief Guest and delivered the National Technology Day Lecture. The programme was presided over by Director, CSIR-NEIST, Dr D Ramaiah. Besides the

Director of Central Muga Eri Research & Training Institute, Dr B K Singh, veteran and retired scientists, present and ex-staff members of CSIR-NEIST fraternity, students and research scholars, industry partners, Press & Media attended the function. In his welcome address, Dr Ramaiah dwelt upon the significance of the Technology Day, progress of science and technology in the country, vision and leadership of the Hon'ble Prime Minister of India and President of CSIR, Shri Narendra Modi and Hon'ble Science and Technology Minister of India and the Vice-President of CSIR Shri Harsh Vardhan. In his illuminating lecture on 'Role of CSIR in making Chemical Industry Self Sustainable', Dr Khandal carried the entire audience with him through his eloquent observations on the progress of Indian Chemical industry vis-a-vis China and his road map for CSIR to making India leaders in Chemical industry. He also urged the CSIR-NEIST scientists to develop their know-how in such a fashion so as to be relevant to the society by providing practical and hands-on solution to the day-to-day problems of the common masses. In tune with the spirit of the day, a *Compendium on CSIR-NEIST Technologies* was also released by the Chief Guest to commemorate the technological feats achieved by the institute. Earlier on the day, two technologies on 'Bacterial Formulation for crop enhancement and yield improvement' and 'Agrotechnology on Citronella, Jor Lab C-5' were transferred to Lukwah Tea Estate, district Sivasagar, Assam; and 'Agrotechnology on Citronella, Jor Lab C-5' to Nahorjan Tea Company (P) Ltd., district Golaghat, Assam. The innovators of the various technologies of CSIR-NEIST in the recent times namely, Dr Mantu Bhuyan for Anti Arthritis, Dr Tridip Goswami for Liquid Deodorant Cleaner, Solid Deodorant and Freshener and Wood Care formulation, Dr H P Dekabaruah for Bacterial Formulation for increase of crop yield and Dr Mohan Lal for Agrotechnology for high yield of Citronella along with their team members were felicitated. The programme concluded with a vote of thanks by Dr P Sengupta, Chief Scientist. The day was also

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- Benjamin Franklin

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declared as an 'Open Day' for students and the general and more than 100 students and teachers from different schools visited the institute on this special day.

**Glimpses of Technology Transfer Agreements signed on the day**



Dr D Ramaiah, Director, CSIR-NEIST handing over the signed Technology Transfer Agreement to Mr Rajesh Singhania, Director, Nahorjan Tea Company (P) Ltd., Bokakhat (Golaghat), Assam for the technology transferred on 'Improved variety of Citronella (Jor Lab C-5)' on 11.05.2017.



**Banana Fibre Development Centre inaugurated at CSIR-NEIST Branch Lab, Imphal and training provided to the first batch of trainees**

Dr D Ramaiah, Director, CSIR-NEIST handing over the signed Technology Transfer Agreements to Mr Ajay Parikh (seen left in the pictures above), General Manager, M/s Lukwah Tea Estate, Sivasagar, Assam, for the technologies transferred on 'Bacterial Formulation for crop enhancement & yield improvement' and 'Improved variety of Citronella (Jor Lab C-5)' on 11.05.2017.



Shri Th Biswajit, Hon'ble Minister for Commerce & Industries, Power & PWD, Govt. of Manipur unveiling the inauguration plaque of the Banana Fibre development Centre at CSIR-NEIST Branch Lab on 22.05.2017.

With an objective to motivate unemployed youth towards entrepreneurship development in the re-

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gion and particularly in the state of Manipur through low cost technologies like Banana fibre extraction and processing, CSIR-NEIST has established a Banana Fibre Development Centre at its Branch Lab in Imphal, Manipur. The Centre was inaugurated by Shri Th Biswajit, Hon'ble Minister for Commerce & Industries, Power & PWD, Govt. of Manipur and Shri Karam Shyam, Minister, Revenue, CAF&PD, Govt. of Manipur on 22 May 2017 in presence of Dr D Ramaiah, Director, CSIR-NEIST. Dr H B Singh, Scientist-in-charge, Branch Lab and Dr T Goswami, Principal Scientist working in the area of natural fibres including Banana fibre were also present on the occasion besides other members from the Institute.

The inauguration programme was followed by the opening of 5-day training programme on novel products & Banana fibre held during 22-26 May 2017. The training was held in collaboration with CSIR-CLRI, Chennai wherein a total of 57 trainees from Manipur participated in the programme.



Release of a pamphlet on novel products based on fabrics of Northeast and leather by the dignitaries on the occasion.

### Papers Published

#### In International Peer Reviewed Journals

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*Science and Technology*, 2017, p: 1-18

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- Kaisha P P, Duarah G, Chetia D, Gogoi S: Ru(II)-Catalyzed annulation of benzamidines and alkynes by C-H/N-H activation: a facile synthesis of 1-aminoisoquinolines, *Organic Biomolecular Chemistry*, 2017, 15, p: 3491-3498
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- Satheesh B, Chandrasekhar D, Adhikary S, Rasala S, Gokulnath S, Maurya R A: Visible-Light Driven Photocascade Catalysis: Union of N,N-Dimethylanilines and *f* Azidochalcones in Flow Microreactors, *The Journal of Organic Chemistry*, 2017, 82(4), p: 2249-2256 (**Highest IF: 4.78524**)
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- Reddy C N, Sathish M, Kamal A, Adhikary S, Nabobolu J Babu, Alarifi A, Maurya R A: Phenacyl azides as efficient intermediates: one-pot synthesis of pyrrolidines and imidazoles, *Organic Biomolecular Chemistry*, 2017, 15 (13), p: 2730-2733
- Das V, Pal M, Kalyan G, Hazra S: Understanding the Role of Structural Integrity and Differential Expression of Integrin Profiling to Identify Potential Therapeutic Targets in Breast Cancer, *Journal of Cellular Physiology*, 2017, 9999 p: 1-18
- Patel P, Borah G: Direct Access to Indoles by IrIII-Catalyzed C-H Functionalization of Acetanilides with Diazo Compounds, *European Journal of Organic Chemistry*, 2017, 2017(16), p: 2272-2279
- Phukan A, Kumar B, Siddhartha S, Podma P, Dutta D K: Mesoporous aluminosilicate: efficient and reusable catalysts for esterification of sec-butanol with acetic acid, *Journal of Porous Materials*, 2017, p: 1-8
- Paula A K, Karunakaran S C, Jayarama D T, Adarsh N, Joseph J, Ramaiah D: Selective recognition of cyanide ions by amphiphilic porphyrins in aqueous medium, *Journal of Porphyrins and Phthalocyanines*, 2016, 20, p: 1368
- Bharadwaz M, Manna P, Das Dhrubajyoti, Dutta Niren, Kalita Jatin, Unni Balagopalan, Deka boruah Hari Prasanna: Isolation, purification, and characterization of staphylocoagulase, a blood coagulating protein from *Staphylococcus* sp. MBBJP S43, *International Journal of Biological Macromolecules*, 2017, 102 p: 1312-1321
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- Bordoloi M, Saikia S, Bordoloi P K, Kolita B, Dutta

- P P, Bhuyan P D, Dutta S C, Rao P G: Isolation, characterization and antifungal activity of very long chain alkane derivatives from *Cinnamomum obtusifolium*, *Elaeocarpus lanceifolius* and *Baccaurea sapida*, *Journal of Molecular Structure*, 2017, 1142 p: 200-210
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**Farewell**

The following members of the staff have retired from Council's service on superannuation from CSIR-NEIST during April-May, 2017.

1. Mr Probin Baruah, Principal Technical Officer
2. Mr O P Sahu, Principal Technical Officer
3. Mr Ram Nath Das, Sr Technical Officer

**CSIR-NEIST in print media**



**চি এছ আই আব-নৈঈষ্টত বাণ্ণীয় প্রযুক্তি দিবস পালন**

গোয়েতি ১২ মে ২০১৭, ১১<sup>তম</sup> বাণ্ণীয় প্রযুক্তি দিবস পালন হয় নিঈষ্টত। বিভিন্ন প্রযুক্তিগত ক্ষেত্রে গবেষণা, উদ্ভাৱন আৰু উন্নয়নৰ ক্ষেত্ৰত গুৰুত্বপূৰ্ণ ভূমিকা পালন কৰাৰ বাবে এই দিনটো পালন কৰা হয়। নিঈষ্টতত বিভিন্ন প্ৰযুক্তিগত ক্ষেত্ৰত গবেষণা আৰু উদ্ভাৱনৰ ক্ষেত্ৰত গুৰুত্বপূৰ্ণ ভূমিকা পালন কৰাৰ বাবে এই দিনটো পালন কৰা হয়। নিঈষ্টতত বিভিন্ন প্ৰযুক্তিগত ক্ষেত্ৰত গবেষণা আৰু উদ্ভাৱনৰ ক্ষেত্ৰত গুৰুত্বপূৰ্ণ ভূমিকা পালন কৰাৰ বাবে এই দিনটো পালন কৰা হয়।



**Delegation releases pamphlet of CSIR-North East at Lampheta**

A delegation of CSIR-NEIST officials visited Lampheta on May 22 to release a pamphlet on the development of the region. The pamphlet, titled 'Encourage entrepreneurs to tackle unemployment', highlights the various initiatives and projects undertaken by CSIR-NEIST in the region. The delegation also met with local officials and entrepreneurs to discuss the challenges and opportunities in the region.



**'Industrial growth to be enhanced'**

By Our Staff Reporter/ DPR  
IMPHAL, May 22 : Opportunity never ends for those who are not satisfied to generate income, one must be hardworking.  
This was stated by Commerce and Industries Minister Th Dishwanji at the inauguration of Banana Fibre Development Centre and 5-day training programme on novel products based on ethno-design and fabrics of North East India at CSIR-North East Institute of Science and Technology (NEIST) branch, Lampheta.  
He said there is a need to encourage entrepreneurs to solve unemployment problems in the State and urged the Banana Fibre Development Centre will help farmers to increase the productivity. He also urged the farmers to cultivate Sereia, a medicinal plant in large scale so as to meet its demand outside the State.  
Dishwanji further said, "In order to boost the economy of the State, bamboo chipping, crick, Though Manipur has abundant resources, people are still not familiar how to explore them and use it properly.  
Revenue Minister Karan Shyam while speaking at the function said the trainings conducted by CSIR-NEIST will help bring sustainable livelihood to the people of the region.  
The programme was also attended by Dr Ramya, Director, CSIR, North East Institute of Science and Technology, Jorhat, Assam.