

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

CSIR-NEIST signs MoU with Kaziranga University



Dr G Narahari Sastry, Director, CSIR-NEIST and Dr P K Mishra, Vice Chancellor, Kaziranga University exchanged the signed MoU. Also present on the occasion were Prof P V Bharatam, NIPER, Mohali and Dr Anurag Agrawal, Director, CSIR-IGIB New Delhi (from right).

A Memorandum of Understanding was signed between CSIR-NEIST and Kaziranga University on 4 December 2019 to promote co-operation in scientific education & research. The mutual collaboration is aimed to provide a platform to strengthen teaching and research in the North East, which in turn, will mutually benefit the student and faculty and scientific members of both the organisations. The MoU was signed and exchanged by Dr G Narahari Sastry, Director CSIR-NEIST and Dr P K Mishra, Vice Chancellor, Kaziranga University. It may be mentioned that the solemn occasion was also graced by Dr Anurag Agrawal, Director, CSIR-IGIB New Delhi and Prof P V Bharatam, NIPER, Mohali.

CSIR-NEIST transferred agro-technology package of improved variety of Patchouli for commercial cultivation

CSIR-NEIST transferred its agro-technology on improved variety of Patchouli (Jor Lab P-1) to M/s Seuj Jatra, Golaghat on 05 December 2019 for commercial cultivation and processing.



Dr G Narahari Sastry, Director, CSIR-NEIST handing over the technology package to the party in presence of members from the technology and business development team.

CSIR-NEIST Branch Itanagar organized training on Mushroom cultivation and Vermicompost production



Programme trainees with NEIST branch lab officials.

A 3-day training programme on cultivation of mushroom and production of vermicompost was held at CSIR-NEIST Branch Itanagar during 02-04 December 2019. Dr B C Baruah Sr Technical Officer NEIST Branch Itanagar coordinated the programme wherein he presented a power point presentation on the nutritional aspects of mushroom and the prospects of mushroom cultivation and vermicompost production for sustainable socio-economic development. The trainees were also apprised about simple scientific technique on commercial cultivation of Oyster mushroom, prepara-

-tion of spawn and culture management. A practical demonstration on mushroom bags preparation was further extended to the trainees. The programme also covered practical sessions on vermiculture and commercial vermicompost production. A total of 25 ST women from different SHGs namely, Dene Mangsing SHG, Apa Ana SHG, Aai Agam SHG, Jimi Nyame SHG, Yirna Gona SHG and Struggle SHG under the aegis of "Rural Development Society" Naharlagun participated in the training programme.

Lectures Series held under NEIST Science Forum

- **Speaker:** Dr Anurag Agrawal, Director, CSIR-IGIB, New Delhi
Topic: Inter, Multi and Trans: Brothers from different mothers.
Date: 04 December 2019
- **Speaker:** Prof. P V Bharatam, NIPER, Mohali
Topic: The latest controversy in chemistry: Arrows between main group elements.
Date: 04 December 2019
- **Speaker:** Prof. Haggas Hamed Mohamed, Director, Aswan Earthquake Research Centre, Seismology Department National Research Institute of Astro. And Geophysics (NRIAG), Egypt
Topic: Seismicity of Egypt and Aswan Earthquake Research Centre
Date: 19 December 2019
- **Speaker:** Ms. Maria Rosalita Pujastuti Sudibyo, Ph D Student, GSTD Division
Topic: Volcano Anak Krakatau and it's resulted Tsunami 2018.
Date: 27 December 2019

Papers published

- Boruah P K, Das M R: Dual responsive magnetic Fe₃O₄-TiO₂/graphene nanocomposite as an artificial nanozyme for the colorimetric detection and photodegradation of pesticide in an aqueous medium, *Journal of Hazardous Materials*, 2020, 385 p: 121516.

- Kumar L, Boruah Purna K, Das M R, Deka S: Superbending (0-180°) and High-Voltage Operating Metal-Oxide Based Flexible Supercapacitor, *ACS Applied Materials Interfaces*, 2019, 11 p: 37665-37674. **Highest Impact Factor paper (IF: 8.456).**
- Mohanty D D, Mondal P: Disparate behaviour of deformation patterns beneath northeast Indian lithosphere inferred from shear wave splitting analysis, *Physics of the Earth and Planetary Interiors*, 2020, 298 p: 106315.
- Loying R, Gogoi R, Sarma N, Borah A, Munda S, Pandey S K, Lal M: Chemical Compositions, In-vitro Antioxidant, Anti-microbial, Anti-inflammatory and Cytotoxic Activities of Essential Oil of *Acorus calamus* L. Rhizome from North-East India, *Journal of Essential Oil-Bearing Plants*, 2019, 22(5), p: 1299-1312.
- Borah H J, Goswami R, Borah G, Hazarika S: Green synthesis of cellulose-supported Pd(0) nanoparticles using resveratrol as bioreductant and their catalytic activity for suzuki-miyaura and heck coupling reactions, *Canadian Journal of Pure Applied Sciences*, 2019, 13(1), p: 4685-4698.
- Sharma K, Neog K, Gogoi P: Pd(II)-Catalyzed Oxidative Annulation via Double C-H Activations: Synthesis and Photophysical Properties of Bis-Coumarins, *Organic Letters*, 2020, 22(1), p: 73-77.

Farewell

The following member(s) of the staff have retired from Council's service on superannuation from CSIR-NEIST on 31 December 2019.

1. Shri Biren Hazarika (Group-C MTS)
2. Shri Dileep Talukdar (Group-C MTS)
3. Shri Durga Karmakar (Group-C MTS)
4. Shri Tapan Borah (Group-C MTS)