

Stakeholders' Training Workshop-cum-Field Consultation Meeting held at CSIR-NEIST Branch Lab, Imphal



Inauguration of the 3-day meeting by lighting of the lamp by the dignitaries on 1 December 2017.

A 3-day program on Stakeholders' training workshop-cum-field consultation meeting under National Mission for Himalayan Studies (NMHS) was held at CSIR-NEIST branch lab, Imphal during 1-3 December 2017 under the project "Anthropogenic impact & their management options in the Indian Himalayan region, Imphal river", funded by GBPNIHESD, Ministry of Environment, Forest & Climate Change, Govt. of India. Dr R K Ranjan, Advisor to Hon'ble Chief Minister Manipur; Dr J C Kuniyal, Head, GBPNIHESD, Kullu Unit; Mr Mahendra Pratap Singh, Chief Conservator of Forest, Govt. of Manipur & Dr H B Singh, Scientist-in-Charge of Branch Laboratory of CSIR-NEIST attended as presidium members. Six talks were delivered on watershed, forest resource, Manipur river system and seasonal dynamic of river water in the technical session from Depts like Loktak Development Authority, Forest Dept, Planning Dept. GBPNIHESD, Kullu. The program was attended by 47 officials and villagers from the Imphal river watershed. A field survey was also conducted in the watershed area of Imphal river.

Workshop on Design & Development of Innovative Leather Lifestyle Products held at CSIR-NEIST Branch Lab, Imphal



Inauguration of the one-day workshop on design & development of innovative leather lifestyle products in combination with ethnic textile material and natural fibre of Northeastern part of India.

A one-day workshop on "Design & development of innovative leather lifestyle products in combination with ethnic textile material and natural fibre of northeastern part of India for the self sustainability and socio-economic development of local population and MSME Sector" was held at CSIR-NEIST branch lab, Imphal on 13 December 2017. The program was jointly conducted by CSIR-CLRI, Chennai and CSIR-NEIST branch LAB, imphal under the sponsorship of CSIR, MSME and DST, Govt. of India. Hands-on training on product development was held during the day. A total of 37 women weavers and entrepreneurs attended the program. Dr K Krishnaraj, CSIR-CLRI, Prof N Mohendro Singh, Former member of NE Vision 2020, Dr N Ranjana, Director of Institute of Cooperative Management, Imphal, Shri D Mitra, Deputy Director, MSME Institute, Imphal, Shri Th. Surendranath Singh, Director, Manipur Science & Technology Council and Dr H B Singh, Scientist-in-Charge, branch lab were the presidium members.

If you don't sacrifice for what you want, what you want becomes the sacrifice.

CSIR-North East Institute of Science & Technology, Jorhat

Connecting Science & Technology for a Brighter Tomorrow

CSIR-NEIST sign MoU with NGOs for implementing CSIR Aroma Mission



Dr D Ramaiah, Director, CSIR-NEIST handing over the signed MoU to the representative of Rural Herbal Development and Literary Society.



Distribution of Citronella and Lemongrass saplings to the representatives of the NGOs by the Director.

With an aim to promote cultivation of Medicinal & Aromatic Plants under 'CSIR Aroma and Phyto-pharmaceutical Mission', CSIR-NEIST signed MoU with two NGOs from Arunachal Pradesh namely 'Bath Multi Purposes Cooperative Society' and 'Rural Herbal Development and Literary Society', Arunachal Pradesh on 8 December 2017. Under the MoU, 140 hectares of land is aimed to be brought under AROMA Mission in various parts of Arunachal Pradesh.

Interaction cum awareness program of CSIR-NEIST's newly developed bio-fertilizer organized



The technology team of OP-12 Biofertilizer in the interaction cum awareness program at Duliajan.

An interaction cum awareness program with entrepreneurs and farmers for popularization of the newly developed bio-fertilizer, OP-12 was organized in association with M/s Amrit Organic, Duliajan on 1 December 2017 at Duliajan. A team from CSIR-NEIST comprising of Dr Ratul Saikia, Dr Jatin Kalita, Dr S P Saikia, Dr Rupak K Sarma and Er. Tobiul H Ahmed attended the program. A visit was made by the team to the farming area where field application of the Bio-fertilizer on various Rabi crops was carried out by M/s Amrit Organic. Mr Dilip Ch. Talukdar, Proprietor, M/s Amrit Organic, expressed his satisfaction with the performance of the bio-fertilizer. The program was also attended by the Manager, Allahabad Bank, Duliajan Branch. About 100 nos. of farmers attended the program and interacted with the technology team led by Dr Ratul Saikia, Sr Scientist. The team demonstrated the use and various aspects of the OP-12 bio-fertilizer. Questions on the use and application of bio-fertilizer and its benefits as against the chemical fertilizers were addressed by the technology team. The program ended with a vote of thanks offered by Mr Talukdar.

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Papers Published

In International Peer Reviewed Journals

1. 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*, 2018, 233(1), p: 168-185
2. Kolita S, Dutta L, Das P, Bhuyan P J: One-Pot Synthesis of Unsymmetrical Bis(4-Hydroxycoumarin-3-yl)methanes, *Synlett*, 2017, 28(17), p: 2291-2294
3. Dey T, Dutta P, Manna P, Kalita J, Boruah H P D, Buragohain A K, Unni B: Anti-proliferative Activities of Vasicinone on lung carcinoma cells mediated via activation of both mitochondria-dependent and independent pathways, *Biomolecules and Therapeutics*, 2017 p: 1-8
4. Muinao T, Boruah H P D, Pal M: Diagnostic and Prognostic Biomarkers in ovarian cancer and the potential roles of cancer stem cells - An updated review, *Experimental Cell Research*, 2018, 362(1), p: 1-10
5. Sharma B, Boruah P K, Yadav A, Das M R: TiO₂-Fe₂O₃ nanocomposite heterojunction for superior charge separation and the photocatalytic inactivation of pathogenic bacteria in water under direct sunlight irradiation, *Journal of Environmental Chemical Engineering*, 2018, 6 p: 134-145
6. Sharma A, Gogoi P: 2-Formylarylsulfonate from Aryne: A Sequential Reaction Strategy for Direct Synthesis of ortho-Hydroxyl-Protected Aryl Aldehydes, *Chemistry Select*, 2017, 2(35), p: 11801-11805
7. Kaishap P P, Duarah G, Sarma B, Chetia D, Gogoi S: Ruthenium(II)-Catalyzed Synthesis of Spirobenzofuranones by a Decarbonylative Annulation Reaction, *Angewandte Chemie, International Edition*, 2017, 56 p: 1-6, **Highest Impact Factor Paper (IF: 11.99)**
8. Dihingia A, Ozah D, Ghosh S, Sarkar A, Baruah P K, Kalita J, Sil P C, Manna P: Vitamin K1 inversely correlates with glycemia and insulin resistance in patients with type 2 diabetes (T2D) and positively regulates SIRT1?/AMPK pathway of glucose metabolism in liver of T2D mice and hepatocytes cultured in high glucose, *Journal of Nutritional Biochemistry*, 2018, 52 p: 103-114
9. Sharma A, Kumara A, Khan R: A highly sensitive amperometric immunosensor probe based on gold nanoparticle functionalized poly(3, 4-ethylenedioxythiophene) doped with graphene oxide for efficient detection of aflatoxin B1, *Synthetic Metals*, 2018, 235 p: 136-144

Farewell

The following member(s) of the staff have retired from Council's service on superannuation from CSIR-NEIST in December 2017.

1. Mr Keshab Chandra Deori, Principal Technical Officer
2. Mr Dilip Mahanta, Sr Technical Officer (3)
3. Mr Robin Ch Bhuyan, Lab Asstt.
4. Mrs Hemakanti Kalita, Group-C (NT)