

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

Project Development Workshop on Technology Empowerment of North-East: Water, Energy and Communication Solutions (TENEWECS) held at CSIR-NEIST



Participants of the Workshop along with the organizing team

A three-day Project Development Workshop on 'Technology Empowerment of North-East: Water, Energy and Communication Solutions (TENEWECS)' was held at CSIR-NEIST during 2-4 November 2017. The workshop was organized by CSIR-NISTADS, New Delhi in association with CSIR-NEIST and supported by AICTE under a flagship project of CSIR-NISTADS & AICTE aimed at empowering 90 technical institutes and colleges of North East in the areas of Energy, Water and Communication. The main objective of the workshop was to provide a platform for close interaction between the technical institutes, CSIR-NISTADS and AICTE for development of project proposals and their future implementation. The workshop was inaugurated at a short inaugural session held on 2 November, 2017 which was presided over by Dr D Ramaiah, Director, CSIR-NEIST and graced by Dr P K Mishra, President (NEKF) & Vice Chancellor, Kaziranga University as the Chief Guest. The technical sessions held during 3-4 November 2017 saw intensive discussions and hands-on exercise on project(s) formulation followed by their evaluation under the technical supervision of experts from AICTE led by Prof Dileep N Malkhede, Adviser (RIFD), CSIR-NISTADS team led by Dr Vipin Kumar, Head-Project Monitoring & Evaluation and Prof Rupam Kakoti, Head-Energy Sciences, Tezpur University.

A short press meet was also held on 4 November 2017 chaired by Dr P Goswami, Director, NISTADS. The workshop concluded with a concluding session on 4 November 2017 presided over by Dr P Goswami, Director, CSIR-NISTADS. Altogether 27 faculty members from 23 technical institutes & colleges of Assam, Arunachal Pradesh, Meghalaya, Mizoram, Nagaland and Sikkim participated in the workshop.

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



From top: Dr D Ramaiah, Director, CSIR-NEIST handing over the signed MoU to Mr R K Barman, President, Juriya Aromatic Small Farmers' Unit, Goalpara on 24 October 2017. Dr G N Qazi, Chairman, Research Council, CSIR-NEIST, handing over the signed MoUs to Mr Tankadhar Podh, Manager, Social Action for Odisha and Mr Joram Neni, Chairman, Subansiri Research & Social Welfare Society, Arunachal Pradesh on 17 November 2017 in presence of the Director, CSIR-NEIST, RC members and other staff members.

Be kind whenever possible. It is always possible.

Students visit CSIR-NEIST on various occasions



Mr Madhurjya Saikia, Senior Technical Officer, interacting with the students of Gyan Yatra programme at Dr J N Baruah Auditorium, CSIR-NEIST.

Under Gyan Yatra (Educational Tour) programme of Rashtriya Madhyamik Shiksha Abhiyan Jorhat held annually, about 2500 students of class IX along with around 200 teachers from 46 schools of Jorhat visited CSIR-NEIST during 30 October to 3 November 2017. During the period, the students visited various divisions and interacted with the scientists. Besides, about 270 students from 8 schools of Jorhat, Nagaon and Sivasagar districts visited the Institute on various occasions during October-November 2017.

Papers Published

In International Peer Reviewed Journals

1. Passari A K, Mishra V K, Singh G, Singh P, Kumar B, Gupta V K, Sharma R K, Saikia R,
2. Donovan A O, Singh B P: Insights into the functionality of endophytic actinobacteria with a focus on their biosynthetic potential and secondary metabolites production, *Scientific Reports*, 2017, 7 p: 11809
3. Reddy A P, Sastry K N V, Kovvuri J, Nagarajan A, Reddy V G, Sayeed I B, Nayak V L, Maurya R A, Kamal A: Visible Light Driven Coupling of 2-aminopyridines and α -Keto Vinyl Azides for the Synthesis of Imidazo[1,2-a] pyridines and Their Cytotoxicity, *Chemistry Select*, 2017, 2 p: 8158 – 8161
4. Saikia I, Hazarika M, Hussain N, Das M R, Tamuly C: Biogenic synthesis of Fe₂O₃@SiO₂ nanoparticles for ipso-hydroxylation of boronic acid in water, *Tetrahedron Letters*, 2017, 58(45), p: 4255-4259
5. Hussain N, Das M R: Magnetically recoverable graphene-based nanocomposite material as an efficient catalyst for the synthesis of propargylamines via A³ coupling reaction, *New Journal of Chemistry*, 2017, 41 p:12756-12766
6. Das T, Saikia B K: Nanodiamonds Produced from Low-Grade Indian Coals, *ACS Sustainable Chemistry Engineering*, 2017, 5, p: 9619-9624. **Highest Impact Factor paper: IF-5.951**
7. Boruah P K, Szunerits S, Boukherroub R, Das M R: Magnetic Fe₃O₄@V₂O₅/rGO nanocomposite as a recyclable photocatalyst for dye molecules degradation under direct sunlight irradiation, *Chemosphere*, 2017, 191 p: 503-513
8. Kozlov M N, Artemkin S B, Podlipskay T Y, Nebogatikov N A, Das M R, Fedorov V

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- E : Colloidal dispersions of molybdenum disulfide with a narrow particle size distribution, *Russian Chemical Bulletin*, International Edition, 2017, 66(6), p: 963-968
8. Kozlova M N, Poltarak P, Artemkina S B, Das M R, Sengupta P, Fedorov V E: Gold nanoparticles deposited on the surface of low-dimensional niobium trisulfide and vanadium tetrasulfide, *Materials Today: Proceedings*, 2017, 4 p: 11411-11417
 9. Saikia I, Hazarika M, Yunus S, Mintu P, Das M R, Borah J C, Tamuly C: Green synthesis of Au-Ag-In-rGO nanocomposites and its α -glucosidase inhibition and cytotoxicity effects, *Materials Letters*, 2018, 211 p: 48-50
 10. Pramanik S, Das M R, Das D, Das P: Sustainable Redox Chemistry Route to Multifaceted Fe-Pd Heteronanostructure: Delving into the Synergistic Influence in Catalysis, *Chemistry Select*, 2017, 2 p: 4577-4585
 11. Borah A, Sharma A, Hazarika H, Gogoi P: Synthesis of 2,3-Disubstituted 1,4-Naphthoquinones via Metal-Free C(sp²)-H Functionalization followed by Suzuki Cross-Coupling Reactions, *Chemistry Select*, 2017, 2 p: 9999- 10003
 12. Singh A, Kumar M R, Mohanty D D, Singh C, Biswas R, Srinagesh D: Crustal Structure Beneath India and Tibet: New Constraints From Inversion of Receiver Functions, *Journal of Geophysical Research: Solid Earth*, 2017, 122 p: 1-21

In Proceedings of Seminars/Conferences

1. Saikia R, Sarma R: Programme topic: Multi-Omics approach for Microbial Community Profiling, In: 7th Symposium of the DNA So-

ciety of India, DST-IASST, Guwahati, 17 & 18 November 2017.

Colloquium held

- **Speaker:** Dr Rituraj Konwar, Senior Scientist, CSIR-Central Drug Research Institute (CSIR-CDRI), Lucknow

Topic: Cancer Drug Research: My Experiences

Date: 9 October 2017

Farewell

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

1. Ms. Alokanda Sengupta, Sr Principal Scientist