

CSIR-NEIST organized training workshop on Rapid Visual Screening (RVS) of Lifeline Structures and Buildings



Left: Dignitaries seated on the dais during the Inaugural session.

Right: Participants of the training programme along with CSIR-NEIST members.

Under the NDMA sponsored program "M8.7 Shillong 1897 Earthquake Scenario Development: NE Multi-State Awareness Campaign", CSIR-NEIST organized a training workshop on 'Rapid Visual Screening of lifeline structures and buildings' during 15-16 June, 2014 at its premises. Delivering his welcome speech in the inaugural session, Dr R Duarah, Chief Scientist & P I of the NDMA project explained about the current seismic hazard scenario of NE India and the relevance of different capacity development programs. He emphasized the usefulness of simple RVS techniques in assessing seismic vulnerability of Life-line structures & buildings. Dr D Ramaiah, Director, CSIR NEIST presided the inaugural session and offered his valuable remarks. Dr R C Boruah, Outstanding Scientist, CSIR NEIST Jorhat delivered the inaugural speech and spoke about the NDMA sponsored program. The training programme was attended by 52 participants from different disciplines which included Civil Engineers from various Govt departments under DDMA Jorhat, Geologists/engineers from DGM, Govt of Nagaland, the State Coordinating Officers from NE SDMA's and the Scientists of GeoScience Division, CSIR NEIST Jorhat. The resource persons, Dr Hemant Vinayak of NIT Hamirpur and Mr Shashank Mishra, Consultant, TARU Leading Edge, Gurgaon delivered lectures on RVS techniques in relation with IS Codes for different building types, and also imparted practical training on the subject concentrating on assessing buildings (NEIST Office & housing Campus) using RVS technique and presenting data/results using prescribed format.

Patents

Granted abroad

- **Title:** Method for the Preparation of 17-Acetamido-3-Acetoxy-16-Formyl-Androst-5,17-Diene and 3-Acetoxy-2'-Chloro-5-Androsteno [17,16-B] Pyridine.

Patent No.ZL200980118933.

Inventors: Romesh Chandra Boruah, Moyurima Borthakur, Madan Gopal Barthakur, Paruchuri Gangadhar Rao, Sudip Kumar Kar, Annalakshmi Chinniah, Suchandra Goswami and Pratap Kumar Das.

Granted on: 12.03.2014.

- **Title:** Pyridin-2-yl Sulfanyl Acid Esters and Process for the preparation thereof.

Patent No.8680288.

Inventors: Jadab Chandra Sarma, Dilip Chandra Bora, Paruchuri Gangadhar Rao, Balaram Ghosh and Sakshi Balwami.

Granted on: 25.03.2014.

Filed in India

- **Title:** Synthesis of 16-(1H-Benzimidazol-1-yl)-Pregnenolone Acetate as Cytotoxic Agent.

Application No.1249DEL2014.

Inventors: Sanjib Gogoi, Romesh Chandra Boruah, Pallabi Saikia, Anthony Addlagatta and Venkateshwarlu Saddanapu.

Complete filing date: 09.05.2014.

- **Title:** Chiral Amines, A Process for preparation and use thereof.

Application No.1568DEL2014.

Inventors: Nabin Chandra Barua, Bishwajit Saikia, Preetismita Borah and Gakul Baishya.

Complete filing date: 10.06.2014.

Honour/Recognition/Nomination

Dr B G Unni, Chief Scientist

- Nominated as Member, Research Council, University of Science & Technology, Meghalaya.
- Nominated to examine a Ph D thesis on Biochemistry.

Seminar/Conference/Workshop/Meeting attended

Dr B G Unni, Chief Scientist

- Attended the first Research Council meeting of University of Science & Technology, Meghalaya on 10 May, 2014.
- Attended the 1st Convocation of Assam Kaziranga University on 14 June, 2014.

Visit

- A group of 45 students along with 5 teachers from Betioni Higher Secondary School, Golaghat, Assam visited CSIR-NEIST on 12 June, 2014.

Dr M Lakshmi Kantam, Director, CSIR-IICT visited CSIR-NEIST



Top: Dr M Lakshmi Kantam, Director, CSIR-IICT, delivering her talk. Just above: Seated on the dais (from left), Dr D Ramaiah, Director, CSIR-NEIST, Dr M Lakshmi Kantam and Dr R C Boruah, Outstanding Scientist, CSIR-NEIST.

Dr M Lakshmi Kantam, Director, CSIR-IICT, Hyderabad, visited CSIR-NEIST during 15-17 June, 2014. During her visit she delivered a lecture on the topic "Surging ahead to catalyze one CSIR: Glimpses of common R&D interests of IICT and NEIST in the era of collaboration" on 16 June at Dr J N Baruah Auditorium. In her talk, she spoke about the history and different R&D activities of CSIR-IICT and its correlation with the type of work going on at CSIR-NEIST. Dr Kantam also expressed her willingness to collaborate with NEIST in certain areas for better development of S&T. She further described the R&D contributions in the area of Drug Development & Pharmaceuticals, Agrochemicals, Coal & Energy,

Disaster Management, Catalysis with some highlights on IICT's contribution in North East. She elaborated her research area on development of catalyst and catalysis and showed some of the products/process transferred to Industries. Later on, an interactive meet was held among CSIR-NEIST scientists with Dr Kantam. It may also be mentioned that earlier on the day, Dr Kantam attended the Management Council meeting of the Institute.

CSIR-NEIST organized Motivation programme for school students



Left: Dr R C Boruah, Outstanding Scientist & Director-in-charge, CSIR-NEIST delivering his address in the inaugural session. Seen seated on the dais is Dr N C Barua, Guest of Honour. Right: Dr M J Bordoloi, presenting his talk.

CSIR-NEIST organized a one-day Motivational Programme for talented students on 20 June, 2014. Thirty students and 3 teacher guides from Kakojan College, Kakojan, Assam and Teok Girls' Higher Secondary School, Teok participated in the programme. The inaugural session was presided over by Dr R C Boruah, Outstanding Scientist in which Dr N C Barua, Chief Scientist, attended as Guest of Honour. In his address, Dr Boruah spoke about the importance of science in human lives while encouraging the students to imbibe the spirit of science and take up science as a career option. Dr N C Barua shared some of his life's experiences for encouraging the students further. The day-long programme included two popular science talks, a semi-extempore speech competition on science topics among the students and visit round the Institute. Dr M J Bordoloi, Sr Principal Scientist and Mr Dipankar Neog, Scientist, delivered the talks on "Environment and Global warming" and "Mathematics through fun" respectively. The programme concluded with a valedictory session presided over by Dr R C Boruah in which Dr P R Bhattacharyya, Chief Scientist attended as Guest of Honour.

Talk Delivered

Dr B G Unni, Chief Scientist & Coordinator, Fulbright Alumni Association North East chapter (FAA-NE) delivered a talk on "Fulbright fellowships, scope and strong application for fellowships" at Kaziranga University on 27 June, 2014.

Visit abroad

Dr D Ramaiah, Director, CSIR-NEIST visited London, UK during 22-26 June, 2014 and participated in "Prof CNR Rao's Felicitation Programme" organized by Royal Society of Chemistry, London. Dr Ramaiah also delivered an invited talk at the 2nd Symposium of RSC-CRSI held at Cardiff University, Cardiff, Wales, UK held during the period.

Paper(s) published

International Journal(s)

- Gogoi J, Gogoi P, Boruah R C: One-Pot Stereoselective Synthesis of (Z)- α -Ketoenamides from α -Halo α,β -Unsaturated Aldehydes, *European J Organic Chemistry*, 2014, 16 p: 3483-3490.
- Shankar B H, Jayaram D T, Ramaiah D: A reversible dual mode chemodosimeter for the detection of cyanide ions in natural sources, *Chemistry - An Asian Journal*, 2014, 9(6), p: 1636-1642.
- Bharadwaz M, Kalita M, Gogoi K, Dey T, Ozha D, Das R, Saikia I, UNNI B G: Preliminary characterization of blood coagulase protein from a *Staphylococcus* strain, *International Journal of Pharmacy and Pharmaceutical Sciences*, 2014, 6(5), p: 151-155.
- Sharma P, Saikia B K, Das M R: Removal of methyl green dye molecule from aqueous system using reduced graphene oxide as an efficient adsorbent: Kinetics, isotherm and thermodynamic parameters, *Colloids and Surface A*, 2014, 457 p: 125-133.
- Sarmah B, Baishya G, Baruah R K: First

example of a Prins-Ritter reaction on terpenoids: A diastereoselective route to novel 4-amido-octahydro-2H-chromenes, *RSC Advances*, 2014, 4(43), p: 22387-22397.

- Sarmah M M, Prajapati D: Exploration of uracils: Pot and step economic production of pyridine core containing templates by multicomponent aza-Diels-Alder reaction, *RSC Advances*, 2014, 4(44), p: 22955-22958.
- Rajesh N, Sarma R, Prajapati D : Indium(III)-catalyzed tandem hydroamination-hydroarylation of naphthylamines with phenylacetylenes, *Synlett*, 2014, 25(10(st-2014-d0166-l)), p: 1448-1452.
- Shekarrao K, Kaishap P P, Saddanapu V, Addlagatta A, Gogoi S, Boruah R C: Microwave-assisted palladium mediated efficient synthesis of pyrazolo [3,4-b]pyridines, pyrazolo [3,4-b] quinolines, pyrazolo[1,5-a] pyrimidines and pyrazolo [1,5-a] quinazolines, *RSC Advances*, 2014, 4 (46), p: 24001-24006.

National Journal(s)

- Saikia S P, Bhattacharyya P R: Citronella in North East, *Indian Journal of Arecanut, Spices Medicinal Plants*, 2014, 16(1), p: 10-13.

Project(s) contracted

Project Title: Mining the metagenome for Bacterial diversity in extreme areas of North East India.

PI: Dr Ratul Saikia

Project cost: Rs.32,12,000.00

Funded agency: ICAR, NBAIM.