

CSIR-NEIST participated in the Agri Tech India 2012 organized by Media Today Pvt Ltd which was held during 25-27 August, 2012 at Palace Ground, Gayathri Vihar, Bengaluru. Chief Guest Shri H D Deve Gowda, former Prime Minister of India inaugurated the Expo on 25 August. The Agri Tech India 2012 is South India's largest exhibition on agriculture, farm machinery, dairy, poultry, livestock equipment and agri processing technology. CSIR-NEIST participated in this mega event along with other sister laboratories like CSIR-CIMAP, Lucknow, CSIR-CFTRI, Mysore, CSIR-CMERI, Durgapur, CSIR-NBRI, Lucknow, CSIR, New Delhi etc under the CSIR Pavilion and show cased its knowhow and technologies developed in the area of agriculture namely Banana fibre extraction, Mushroom cultivation and improved grain storage container. Nearly 1500 visitors like existing and potential agri-entrepreneurs, industrialists, farmers, NGOs, students, researchers and professional consultants from different states of India like Andhra Pradesh, Odhisa, Karnataka, Tamil Nadu, Kerala, Punjab, Maharashtra, Kolkata, Pondicherry, Rajasthan and neighbouring countries like Nepal and Thailand visited the CSIR-NEIST stall. Visitors were impressed with the variety of technologies and knowhow available in CSIR and a large number of them expressed their keen interest to take up CSIR-NEIST knowhow especially banana fibre extraction process and mushroom technology.

**Krishi Expo cum Kisan Mela-2012**

CSIR-NEIST branch laboratory, Itanagar, participated in the Krishi Expo cum Kisan Mela-2012 held during 12-14 December 2012. The expo was organized by Dept. of Agriculture, Horticulture, AH & Veterinary & Fisheries, Govt. of Arunachal Pradesh at IG, Park, Itanagar. In the exhibition, the activities of CSIR-NEIST branch in the state of Arunachal Pradesh were displayed through posters and commercial & laboratory samples. More than 20,000 people visited attended the mela and visited the exhibition stall. The visitors appreciated the works of branch lab in the state and especially on societal upliftment through dissemination of Mushroom cultivation and production of vermicompost.



*Mr Chandan Tamuly, Scientist Incharge, BLI (3rd from right) interacting with the visitors*



## ACHIEVEMENTS

### PhD Awarded

Sl. No.	Name of the Research Fellow	Division / Area	Title of the Ph D Thesis	University	Year	Name of Guide
1	Dr Juli Gogoi	Biotechnology	Study of Biochemical and related parameters of some coalmine wasteland tolerant plant species and assessment of their phytoremediation efficacy	Gauhati	May, 2012	Dr HP Deka Boruah
2	Dr Irom Manoj Singha	Biotechnology	Molecular characterization of potent phytopathogenic fungal strains of a few vegetable crops and biofungicidal evaluation of some medicinal plants of north east India.es	Gauhati	May, 2012	Dr BG Unni
3	Dr Minakshi Bhattacharjee	Biotechnology	Environmental and molecular studies of risk factors of lung function of human population surrounding open-cast coal mines of Ledo, Assam	Gauhati	Sep, 2012	Dr BG Unni
4	Dr Rupam Sarma	Medicinal Chemistry	Synthesis of novel pyrimidine derivatives and studies on some new synthetic methods	Dibrugarh	Oct, 2012	Dr D Prajapati
5	Dr Dwipen Kakati	Natural Products Chemistry	Studies on new synthetic strategies towards the synthesis of some novel bioactive chalcone and derivatives.	Dibrugarh	Oct, 2012	Dr NC Barua
6	Dr Bibek Jyoti Borah	Materials science	Synthesis, characterization and reactivities of supported metal nanoparticles and novel metal complexes.	Dibrugarh	Oct, 2012	Dr DK Dutta
7	Dr M Stalin Joseph	Natural Products Chemistry	Studies on the carbon -carbon bond formation behaviour of Baylis - Hillman adducts with the free radicals generated from acyl derivative of N-Hydroxy-2-thiopyridone.	Dibrugarh	Oct, 2012	Dr NC Barua
8	Dr Biswajit Deb	Materials science	Synthesis of rhodium, iridium and ruthenium complexes of functionalised phosphine donors ligands and their catalytic applications.	Dibrugarh	Oct, 2012	Dr DK Dutta
9	Dr Mohamed Abd Allah Abo EL-Eneen Mabrouk Gad	Biotechnology	Molecular characterization of potent phytopathogenic fungal strains and their biocontrol through plant growth promoting Rhizobacteria.	Gauhati	Oct, 2012	Prof Manab Deka, GU



10	Dr Nayana Pathak	Biotechnology	Evaluation of some coal mine OB stress tolerant plant for physico - biochemical parameters and assessment for eco restoration or coalmine polluted land	Gauhati	Dec, 2012	Dr HP Deka Boruah
11	Dr Pranab Barkakati	Chemical Engineering	Adsorptive separation of certain pharmaceutically important plant products from aqueous solution: equilibrium kinetics & column dynamic studies.	Gauhati	Dec, 2012	Dr PG Rao
12	Dr Prasanta Kumar Bordoloi	Natural Products Chemistry	Some investigations in search of potential bioactive molecules of natural and synthetic origin	Dibrugarh	March, 2013	Dr MJ Bordoloi
13	Dr Shyamalee Gogoi	Medicinal Chemistry	Synthesis of some novel steroidal heterocycles and their relative system.	Dibrugarh	March, 2013	Dr RC Boruah

## Visit Abroad

Sl. No.	Name	Designation	Country visited	Purpose	Period	
					From	To
1	Mr C Tamuly	Scientist	Sabah, Malaysia	To attend International Conference on "Food Science and Nutrition – 2012, Traditional Resource: Scientific Approaches Towards Quality Food"	02.04.2012	04.04.2012
2	Dr. D Prajapati	Chief Scientist	Shanghai, China	To work under CSIR – NSFC China joint S&T programme for project entitled "Stereoselective Multi-component Organometallic Reactions and Synthesis of Bioactive Molecules using Green Methodologies".	15.07.2012	06.08.2012
3	Dr. MJ Bordoloi	Sr. Principal Scientist	Hanoi, Vietnam	To work under Indo-Vietnamese programme of Co operation in Science and Technology entitled "Chemical investigation of species of sea stars (family Asterninidae) from Vietnam waters in search of bioactive molecules"	20.07.2012	20.08.2012
4	Mr A Gautam	Jr. Scientist	Japan	For exposure visit programme to Japan, sponsored by DST, New Delhi.	24.09.2012	28.09.2012
5	Dr BS Bhau	Sr. Scientist	Prague, Czech Republic	To work under joint S&T programme of CSIR, India and ASCR, Czech Republic entitled "Eco -friendly management of plant pathogens using natural plant extract form Northeast India by inducing resistance in plants".	29.10.2012	11.11.2012
6	Dr R Khan	Scientist			29.10.2012	11.11.2012
7	Dr Archana Moni Das	Scientist			30.10.2012	11.11.2012



8	Dr PK Chowdhury	Chief Scientist	Bilbao, Spain	To attend the General Assembly Meeting of 'NAMASTE' project being organized by European Consortium	17.12.2012	18.12.2012
9	Mr PK Goswami	Chief Scientist			17.12.2012	18.12.2012
10	Dr Dipanwita Banik	Jr. Scientist	Bangkok, Thailand	For business development and planning of future collaborative programmes	18.02.2013	28.02.2013
11	Dr J Kalita	Jr. Scientist			18.02.2013	28.02.2013
12	Dr. MJ Bordoloi	Sr. Principal Scientist	Hanoi, Vietnam	For research work under the project entitled "Chemical investigation of species of sea stars (family Asterninidae) from Vietnam waters in search of bioactive molecules"	24.03.2013	31.03.2013

## Training Attended

Dr P K Bora, SPS

- Training on Rapid visual assessment of buildings for disaster vulnerability organized by National Disaster Management Authority (NIDM) at Imphal during Nov. 21-26, 2012.

Dr Swapnali Hazarika, Sc

- Success story CEFIPRA organized by Indo-French Centre for the Promotion of Advanced Research, New Delhi

Dr BK Saikia, Sc

- Induction Training Programme organized by HRDC, Ghaziabad on 26 August – 4 September 2012

Dr Gakul Baishya, Sc

- Induction Training Programme organized by HRDC, Ghaziabad on 26<sup>th</sup> Aug-4<sup>th</sup> Sep 2012

Dr L Saikia, JS, Mr BK Choudhury, JS

- Induction Training Programme organized by HRDC, Ghaziabad

Ms Sangeeta Sharma, JS

- International School on "Use of e-infrastructures for Advanced Seismic Hazard Assessment in Indian subcontinent" organized by Institute of Seismological Research, Gujrat in collaboration with Trieste University, Italy

Dr Manoj Kumar Phukan, JS

- Training on earthquake Early warning algorithm organized by Department of Earthquake Engineering, IIT-Roorkee during 17 to 24 September, 2012
- Lead Auditor Training on ISO 9001;2008 organized by M/S DNV, Kolkata during 25 Feb -1<sup>st</sup> March, 2013

Mr Rajib Deka, JS, Mr P Paul, JS

- Attended a training programme on "S&T Communication and presentation Skill" at HRDC Ghaziabad, May 2012.

Mr Debabrata Das, JS

- Attended 2 days Training Programme on "Taxation Laws-Direct and Indirect Taxes" at CSIR-HRDC, Ghaziabad from 15-16 Oct 2012.

Mr OP Sahu, PTO, Mr NP Bora, TA

- NABL Accreditation of Laboratory based on ISO / IEC 17025: 2005 (Awareness, Documentation & Effective Implementation organized by Engineering Staff College of India, Hyderabad

Ms Ankana Phukan, TA, Ms Preetismita Borah, TA

- Orientation Training Programme for Technical Group III personnel organized by HRDC, Ghaziabad

Mr SK Pal, AO, Mr JL Khongsai, SO, Mr J Bhuyan, SO, Mr H Borthakur, Asst

- ERP HR Portal related processes and configuration of HR Processes for ESS, PMS & Assessment modules organized by HRDC, Ghaziabad

Mr Parag Patar, F&AO

- Workshop on Modified Accounting Software organized by HRDC, Ghaziabad

Mr NC Patra, PS, Mr L Das, PS

- Orientation Training Programme for PS/PAs'/Sr. Stenographers organized by HRDC, Ghaziabad

Dr Santanu Baruah, Research Associate

- International School on "Use of e-infrastructures for Advanced Seismic Hazard Assessment in Indian subcontinent" organized by Institute of Seismological Research, Gujrat in collaboration with Trieste University, Italy

### Seminar/Meetings Attended

Dr P G Rao, Director, CSIR-NEIST (Retd 31.12.12)

- IUFoST National Committee and ICSU National Committee meetings held at New Delhi on 4.4.12
- Council meeting of National academy of Sciences, India held at NIPGR, Aruna Asaf Ali Marg, New Delhi on 21.4.12
- CSIR Leadership Conference held at CSIR-IMTECH, Chandigarh during 26-28.4.12.
- Meeting of CSIR Innovation Complex held at IICB-Kolkata on 25.05.12.
- North East Graduate Congress held at University of Science & Technology, Meghalaya during 29-30 May 2012.
- Meeting on collaborative programmes at CSIR-CLRI, Chennai on 8.6.12.
- Meeting of National Disaster Management Authority (NDMA) at Imphal, Manipur on 17.6.12
- 86th meeting of Executive Council of Assam University, Silchar on 27 August 2012.
- Screening committee meeting of CAIRD-2011 at CSIR Science Centre, New Delhi on 25.8.12
- Council meeting of the National Academy of Sciences, India (NASI) at Allahabad on 21.7.12.
- Review meeting on Herbal Drug Development at New Delhi on 6.9.12
- Meeting on 18 September, 2012 with Head, CSIR-HRDG at New Delhi in connection with the release of herbal ointment, 'Anti-Arthritis' proposed to be released on the occasion of 70th CSIR Foundation Day celebration.
- Meeting of Search committee, CSIR at New Delhi on 18.9.12
- Meeting of Project Monitoring Committee (PMC) of M/s Intouch Naturals Pvt. Ltd., held at Mao, Manipur on 10.10.12
- National Conference on New Materials & Process for Improving Quality of Infrastructure (NEMPIQI 2012) organized by Indian Association for Productivity, Quality and Reliability (IAPQR) at University of Hyderabad during 19-20.10.12
- Meeting of National Council for Science & Technology Communication held at New Delhi on 30.10.12
- Meeting of Department of Scientific & Industrial Research held at Mumbai on 31.10.12.
- Meeting at University of Science & Technology, Meghalaya on 27.11.12
- 4th Council meeting of NASI, Varanasi and 82nd Annual Convention of NASI on 29.11.12.

Dr R C Boruah, OS / Acting Director (w.e.f. 1.1.13)

- India-Canada joint conference on Clean Coal technologies at India International Centre, N. Delhi on 4.12.2012
- Acted as external examiner for PhD viva-voce examination in the Department of Biotechnology, University of Pune on 24.8.12
- Acted as an external expert for the appointment of Associate and Assistant Professor in the Department of Chemistry held at SETAM, Dimapur, Nagaland on 6.8.12
- 1<sup>st</sup> meeting of "Dialogue with Industry" of the Innovation Complex, Kolkata held at Hotel Grand Oberoi on 25.8.12.



- One-day orientation programme of the Appellate Authority, RTI conducted by Institute of Public Administration, Bangalore 560001 at Hotel SMS at Jaipur Rajasthan on 2.7.12
- CSIR Leadership Conference 2012 at Chandigarh jointly organized by IMTECH and CSIO, Chandigarh during 26-28.4.12.
- UGC-SAP Advisory Committee meeting at Bengal Engineering and Science University, Shibpur, Howrah, West Bengal during 19-21.04.12.

**Dr NC Barua, CS**

- Preparatory meeting at Kolkata for Foundation stone lay ceremony of CSIR Innovation Complex at Kolkata organized by CSIR, New Delhi during 22-23.5.2012
- CSIR 70<sup>th</sup> foundation day celebration organized by CSIR, New Delhi for release of Release of the antiarthritic cream formulation developed by CSIR-NEIST by central S &T minister Vigyan Bhavan, New Delhi, 27.9.12
- Awareness programme to representatives of marketing agency M/s Sarada Clinics Pvt Ltd (SCPL), Kolkata on the herbal products "Anti Arthritis" and "Fungi Destruct" for better circulation of the herbal products "Anti Arthritis" and "Fungi Destruct" organized by CSIR-NEIST Jorhat & Sarada Clinic Kolkata held at Saturday Club, 7 wood Street, Kolkata on 11.2.13

**Dr BG Unni, CS**

- Viva Voce examination of Biotechnology department student, Gauhati University on 27.4.12 & 3.8.12
- Review and EC meeting of Tea Improvement Consortium held on 10.5.12 at CSIR-NEIST, Jorhat and on 16.7.12 at Tea Research Experimental Station, Tocklai Jorhat respectively
- Chaired the Technical session of the National Conference on Recent Trends in Plant Diversity study and conservation strategies on 30 September 2012 at Nagaland University Lumami jointly organized by Nagaland University and East Himalayan Society for Spermatophyte Taxonomy during 29-30.9.12
- As panelist in the 22<sup>nd</sup> Science Congress under the programme "Students & Scientists Meet" at the Govt college of Kasargod on 6.11.12
- EC meeting of SBC (I) on 9-10.11.12 at Science city, Kolkata.
- Consultative meeting for preparation of Biotechnology Policy Draft for Assam organized by ASTEC, Gauhati at Hotel Gateway Grandeur, Gauhati on 24.11.12

**Dr D Prajapati, CS**

- 82<sup>nd</sup> Annual session and National Academy of Sciences seminar held at BHU, Varansi during 29.11-1.12.12
- 81<sup>st</sup> Annual Meeting of Society of Biological Chemists, India held at Science City, Kolkata during 9-11.11.12

**Dr Dipak Kumar Dutta, CS**

- International Seminar and Workshop on Energy, Sustainability and Development (ISWESD)-2012, held in Sibsagar College, Sibsagar during 12-14.10.12.
- National Seminar on "Chemistry Education and Research and National Convention of Chemistry Teachers (NCCT-12)", held at Gauhati University, during 1-4.11.12.
- Faculty Training and Motivation and Adoption of Schools and Colleges by CSIR Labs., held at St. Anthony College, Shillong, Meghalaya, during 27-28.11.12.
- 15<sup>th</sup> CRSI National Symp. Chemistry at BHU, Varanasi during 1-3.02.13
- 21<sup>st</sup> National Symposium on Catalysis for sustainable development (CATSYMP-21) held at CSIR-IICT, Hyderabad during 11-13.02.13

**Dr PC Neog, CS**

- Participated at a state level workshop on "Science Translation" at North Lakhimpur during 9-11.11.12 organised by National Book trust, New Delhi, in association with Assam Science Writers' Association.
- Attended valedictory function at science competition among school children at Kokajan, Jorhat and delivered a speech on model making on 17.11.12

- As a Director's nominee, attended the Governing Body meeting of Assam Science, Technology and Environment Council (ASTEC), Guwahati at CM's Conference Hall, Assam Secretariat, Dispur, Guwahati, on 30.12.12

**Dr SD Baruah, CS**

- Monitoring committee meeting of Department of Electronics and Information Technology -New Delhi as PRGS committee member at IASST-Guwahati on 14.9.12.
- Review committee meeting of Nano Mission Council of DST organized by DST- New Delhi in collaboration with CSIR-NIIST, Trivandrum held at CSIR-NIIST, Trivandrum during 21-22.2.13.

**Dr P K Bora, SPS**

- Industry Academia workshop organized by Upstream Geology & Geophysics organized by Oil India Limited and Petroleum Federation of India at Duliajan during 7-9.3.13
- Attended as an expert to evaluate M.Tech thesis at Tezpur University on 14.5.12

**Dr Saurabh Barua, SPS**

- Indo-Taiwan workshop on Earthquake Early Warning System during 15-18.1.13 at MoES-Delhi and IIT-Roorkee.
- Technical committee meeting for reviewing and recommending actions regarding roadmap of earthquake risk mitigation and Presented the project proposal on "Literature Survey of Available Earthquake Hazard Assessment Studies related to NE region" organized by Assam, Secretariat, Assam State Disaster Management Authority on 15.6.12

**Dr Aradhana Goswami, SPS & Mr Tobiul Hussain**

- Presented paper "Development of nutraceuticals from cereal processing by-products" at the 8<sup>th</sup> Nutra india Summit held at Mumbai during 13-16.03.13

**Dr Rajib L Goswamee, PS**

- Indo-European conference with theme subject "Water" held in CSIR-NGRI Hyderabad on 8-9.11.12
- Carried out a PhD viva-voce examination in the Chemistry Department of Nagaland University as an external examiner

**Dr BP Baruah, PS**

- National Conference on "Energy Scene in North East with Special Emphasis on Renewal Energy" during 28.4.12 at NEDFI Convention Centre, Guwahati, Organized by SECONE.
- Meeting in Kolkata regarding the CSIR-Innovation Complex on 25.5.12
- International conference on Towards A Better Innovation Ecosystem organized by Indian National Academy of Engineering in Collaboration with National Innovation Council, International Confederation Council of Indian Industry of Academies of Engineering and Technological Sciences, Inc (CAETS) on 20-21.9.12 at New Delhi.
- 26<sup>th</sup> International Mineral Processing Congress organized by IIME & IIM and presented a paper "Cleaner Coal Initiatives for High Organic Sulfur Indian Coal" on 24-28.09.12 at New Delhi.
- 8<sup>th</sup> meeting of CGPB-VII on Geology and Mineral Resources of North Eastern Region held on 27.11.12
- Coal preparation Technology-2013 and IIME EC meeting organised by CSIR-CIMFR, Dhanbad during 22-25.2.13
- RSC roadshow in India-Three one- day Scientific Symposia organized by RSC& National Chemistry Laboratory Pune on 11.2.13 held at NCL, Pune.

**Mr J Bora, PS**

- 5<sup>th</sup> "State Geological Programme Board" Meeting on 17.8.12 in the office Chamber of Secretary (Geology & Mining/UD), Mowb-II Itanagar Govt. of Arunachal Pradesh, as member of the board.

**Dr HB Singh, PS & Scientist-in-Charge, NEIST Substation, Imphal**

- as Chief Guest in seminar "Renovation on rural technology for resources & sustainable utilization" organized by Medicinal, Non-medicinal Plants Conservation & Research Centre, Imphal, sponsored by CSIR, New Delhi on 28.10.12



- Technical Expert Meeting organized by Directorate of Science & Technology, Govt of Manipur for Providing mobile phone and energy efficient lighting devices facility to deaf & mute students of Manipur on 26.7.12
- 10<sup>th</sup> Executive Committee Meeting for Annual Body Meeting representing CSIR organized by Manipur Science & Technology Council, Imphal held at Conference Hall of Chief Minister, Manipur on 7.7.12

Mr Sanjay Deori, SS

- National Conference on “New Materials & Processes for Improving Quality of Infrastructure (NEMPIQI 2012)”, organized by IAPQR, Kolkata in technical collaboration with SEST, University of Hyderabad, Hyderabad held at University of Hyderabad, Hyderabad during 19-20.10.12 and presented paper “Sustainable Technologies for Road Construction in North East India”.
- 3-day conference on “Road and Transportation Technologies for North-East Region (CORTNE 2013)” on 22-24.02.13 at Maniram Dewan Trade Centre, Guwahati. Organized by CSIR-Central Road Research Institute, New Delhi in collaboration with Public Works Departments (PWDs) of eight North Eastern States viz. Assam, Arunachal Pradesh, Meghalaya, Nagaland, Mizoram, Manipur, Tripura and Sikkim and supported by ERD Foundation, Guwahati; M/s BitChem, Guwahati & FINER, Guwahati and presented paper “New and Alternative Maintenance Technologies”.

Dr Dipul Kalita, Sc

- As Resource person in the workshop “School student's interactive meet with scientist” at DR College, Golaghat on 9.5.12 organized by ASTEC Guwahati.
- Training was given to 150 school teachers on Preparation of Project and Model on Science at AAU Jorhat organized by District Coordinator, Sarba Siksha Abhijan, Jorhat on 24-25.11.12
- Presented a paper "Physico-mechanical properties of banana fibre reinforced polymer composite" in 4<sup>th</sup> International conference on Recent Advances in composite materials organized by Department of Mechanical Eng. BHU and held at International centre Goa during 18-21.2.13

Mr Dipak Basumatari, Sc

- National Conference on “New Materials & Processes for Improving Quality of Infrastructure (NEMPIQI 2012)”, organized by IAPQR, Kolkata in technical collaboration with SEST, University of Hyderabad, Hyderabad, held at University of Hyderabad, Hyderabad during 19-20.10.12 and presented a paper “Testing and Evaluation of Construction Materials for Quality Control with Reference to North Eastern Region.”

Dr Binoy Kumar Saikia, Sc

- face-to-face interaction with Children's in connection with National Children's Science Congress, held in Dumduma Girls High School, Dumduma on 1.10.12
- As evaluator of project submitted for National Children's Science Congress held in KV, ONGC, Jorhat on 5.11.12
- Coal preparation Technology-2013 organised by CSIR-CIMFR, Dhanbad during 22-25.2.13

Mr Prasenjit Saikia, Sc

- National Conference on “Energy Scene in North East with Special Emphasis on Renewal Energy” during 28.4.12 at NEDFI Convention Centre, Guwahati, Organized by SECONE.
- face-to-face interaction with Children's in connection with National Children's Science Congress, held in Dumduma Girls High School, Dumduma on 1.10.12
- National Children's Science Congress project selection activity as Project Screening member held in ONGC, Jorhat on 5.11.12.

Mr Chandan Tamuly, Scientist-in-charge, Branch Lab, Itanagar

- 1<sup>st</sup> Executive Committee Meeting of “Arunachal Pradesh State Medicinal Plant Board” at Verrier Elwin Conference Hall, State Forest Research Institute, Itanagar on 30.8.12
- Meeting of Arunachal Pradesh Medicinal plant Board at Chimpu, Itanagar. The Chief Minister, Arunachal Pradesh attended the programme and inaugurates the National Campaign on Amla/Sajana in Arunachal Pradesh



- Workshop on “Consultative meeting for prioritization of medicinal plant suitable for of medicinal plant suitable for cultivation at different altitudes in Arunachal Pradesh.” organized by State Medicinal Plant Board (SMPB), Itanagar and FRLHT, Bangalore on 6-7.11.12.
- Workshop on “Mainstreaming the Conservation and sustainable use of Medicinal plant in Arunachal Pradesh-Policy and Legal Review with a focus on training on Traditional Knowledge and Participatory Forest Management.” organized by State Medicinal Plant Board (SMPB), on 6.12.12 at conference hall, PCCF office Itanagar, A.P.

Dr SP Saikia, Sc

- Acted as a judge in the Science Essay Competition at Jorhat District Level organized by Rashtriya Madhyamik Siksha Abhijan, Jorhat in collaboration with Inspector of Schools, Jorhat District Circle, Jorhat on 6.4.12
- Workshop on “Demand driven technology up gradation needs of NGO's through S&T intervention for better performance, better efficiency, commercialization and popularization” organized by Rural Technology Action Group–North East (RuTAG-NE) at IIT, Guwahati on 23.11.12.
- Attended the CSIR800 meeting at C-MMACS, Bangalore on 14 December 2012.

Dr A M Das, Sc

- As resource person in the Workshop “School student's interactive meet with scientists” at DR College, Golaghat on 9.5.12 organised by ASTEC Guwahati

Dr PJ Saikia, Sc

- Attended seminar Solutions for current analytical challenges organized by Waters (India) Pvt Ltd., held at Hotel MDs, Jorhat on 20.11.12

Dr BK Saikia, Sc

- Presented paper “Non recovery coke ovens of North east coals: an attempt for energy utilization” by Tonkeswar Das, Nilakshi Kakoti, Jayanta J Bora, Binoy K. Saikia, B P Baruah in ISWESD 2012 organized by Sibsagar College and CSIR-NEIST held on 12-14.10.12 in Sibsagar College

Dr Manoj Kumar Phukan, JS

- Presented the project proposal on “Palaeoclimatic indicators and fluvial geomorphology of upper Assam Basin” at DST-CMMACS brainstorming session on Climate issues held at Cotton college state University, Guwahati during 3-4.3.13

Mr Debabrata Das, JS

- Two days Workshop on “Launch of CSIR Cluster Innovation Scale-Up Programme” at CSIR-HRDC, Ghaziabad from 27-28.9.12
- CSIR Foundation Day Programme held at Vigyan Bhavan, New Delhi, on 26.9.12

Dr AK Bordoloi, PTO

- presented a paper “*Ganoderma lucidum-A Potential Medicinal Mushroom It's cultivation and commercial production*” in the National symposium on Medicinal Mushrooms held at Amala Cancer Research centre, Thrissur, Kerela during 24-25.1.13
- Delivered presentation On Mushroom cultivation in the Workshop cum brain storming session organized by CSIR-IMMT, Bhubaneswar held at Koraput, Bhubaneswar during 19-20.2.13.

Ms Lakhimi Borah, STO

- Presented a paper “Estimation of some steroids by a direct titration method” in the 57<sup>th</sup> Annual Technical Session organized by Assam Science Society held at Gauhati University on 16.03.13
- Presented a paper “Physico-chemical studies of Kopli river water and ground water sources near Nagaon Paper Mill, Assam” in National seminar on chemistry, education & research organized and held at Gauhati University during 1-4.11.12
- Presented a paper “Soil quality assessment of upper Assam- a case study” in National seminar on frontiers in science & technology organized and held at Gauhati University during 8-9.11.12



Mr R N Das, TO

- presented a paper "An Improved Synthesis of Isoquinoline Derivatives via Bischler-Napieralski Type Reaction" in the National Symposium on Recent Trends in Chemical Sciences organized by and held at Manipur University during 22-23.3.13

Mr Dipanka Dutta, TA

- Presented a paper "Development and characterization of new composite materials based on polymeric waste and modified agro- fibre" in the 2<sup>nd</sup> International conference on Advances in material processing and characterization organized by and held at Anna University, Chennai during 6-8.2.13

Mr T Das, TA

- Presented paper "Combustion characteristics of caustic leached high sulphur coals" by Tonkeswar Das, B K Saikia, P Saikia, B P Baruah in ISWESD 2012 organized by Sibsagar College and CSIR-NEIST held on 12-14.10.12 in Sibsagar College

Ms A Gogoi, Guest Worker

- Presented a paper "Structural studies of Tipong coal using x-ray diffraction techniques" in the 57<sup>th</sup> Annual Technical Session organized by Assam Science Society held at Gauhati University on 16.03.13

Dr RK Mrinalinee Devi, DST Women Scientist

- *National conference on 'Rock Deformation and Structures-II (RDS-II), sponsored by the CSIR, DST & MOES, Govt. of India, at Lucknow University, Lucknow, during 1-3.10.12*

Mr Jyotirmoy Sarma, SRF

- 26<sup>th</sup> International Mineral Processing Congress-2012 at New Delhi during 24-28.9.12.

Mr R K Sarma, Project Fellow

- Presented a paper "Multilevel diversity analysis of draught tolerant fluorescence pseudomonads associated with green gram rhizosphere" by Rupak K Sarma, Ratul Saikia, Pratap J Handique, Tarun C Bora in the 53<sup>rd</sup> Annual Conference of Association of Microbiologists of India (AMI) held at KiiT University, Bhubaneswar during 22-25.11.12
- Presented a paper "Molecular characterization of drought tolerant fluorescent pseudomonads associated with green gram rhizosphere" by R K Sarma, T C Bora, A. R. Baruah, P J Handique, R Saikia in the National Seminar on Plant resources of NE Region and their Bioprospecting organized by Deptt of Botany, Gauhati University on 30.3.13

Ms Ashma Begum, Project Fellow

- Presented a paper "Study of the phenolic content and antioxidant activity of bran of some traditional rice cultivars of NE India" by Ashma Begum, A Goswami, PK Goswami & PK Chowdhury at the 19<sup>th</sup> ISCB International conference (ISCBC 2013) on recent advances and current trends in chemical and biological sciences held at Mohanlal Sukhadia University, Udaipur during 2-5.3.13
- Presented paper "Study of dietary mineral content in bran of some traditional varieties of rice of North-East India" by Ashma Begum, A Goswami and PK Chowdhury at Chemistry Education and Research and National Convention of Chemistry Teachers (NCCT-12) held at Guwahati University during 1-4.11.13

Mr Edja F Assanvo, CSIR-TWAS Fellow

- Presented a paper "Photopolymerization of Ricinodendron Heudelotii (RH) oil: kinetics and thermal properties" in National seminar on Chemistry Education and Research at National Convention of Chemistry Teachers at Guwahati University, Gauhati during 1-4.11.12



## Talk Delivered

Dr RC Boruah, OS /Acting Director (w.e.f. 01.01.2013)

- "Some aspects on research and its opportunities" at DST-INSPIRE Internship Science Camp at Tezpur University, Napaam, Tezpur on 12.6.12
- Overview of CSIR-NEIST in Inter-institutional meet of CSIR-NEIST and ISM, dhanbad on 25.2.13
- "Some novel strategies for structural modification of steroids" at Assam Don Bosco University, Azara, Guwahati on 2.3.13
- Plenary lecture in 58<sup>th</sup> Technical session of Assam Science Society at Gauhati University on 9.3.13

Dr NC Barua, CS

- Invited Lecture in International Seminar on Chemistry and Chemical Biology of Natural Products (CCBNP-2012) organized and held at CSIR-IICT, Hyderabad during 2-4.8.12
- Keynote address in National Seminar on Chemistry Education and Research and National Convention of Chemistry Teachers (NCCT-12) organized and held at Department of Chemistry, Gauhati University during 1-4.11.12

Dr BG Unni, CS

- "How to write a good research paper" at the Workshop entitled "Writing Research papers" sponsored by Manipur Science & Technology on 4.9.12 at CSIR NEIST Substation Imphal, Manipur workshop
- "Prospects of Biotechnology Research In North East India" on 6 December 2012 in the International Consultative Meeting on SeriBiotechnology held during 5-7.12.12 organized by Institute of Bioresources and Sustainable Development, Imphal and IIT, Gauhati sponsored by DBT, GOI
- key note lecture "Unique Biodiversity of NE region-Proper conservation and Utilization" in the 22<sup>nd</sup> Science Congress held at Central Plantation crops Research Institute at Kasargod on 7.11.12
- "COPD is it a serious issue for coal miners?" on 10.11.12 in the 79<sup>th</sup> Society of Biological Chemists (India) meeting at Science City, Kolkata held during 9-11.11.12

Dr Dipak Kumar Dutta, CS

- Metal Nanoparticles: Synthesis and Green Catalytic Applications at the International Seminar and Workshop on Energy, Sustainability and Development 2012, on 12.10.12 at Sibsagar College.
- Electron-Rich Iridium and Rhodium Complexes of Functionalized Phosphines and N-O Donors Ligands: Reactivity and Catalytic Applications at the National Seminar on "Chemistry Education and Research and National Convention of Chemistry Teachers (NCCT-12)", held at Gauhati University, during 1-4.11.12
- Nanoscience and Nanotechnology at the Faculty Training and Motivation and Adoption of Schools and Colleges by CSIR Labs., held at St. Anthony College, Shillong, Meghalaya, during 27-28.11.12
- Metal nanoparticles for sustainable catalysis at Indo-UK Royal Society Joint Workshop on Catalysis at the Interface held at CSIR-IICT, Hyderabad during 11-13.2.13

Dr D Prajapati, CS

- "Construction of Building Blocks for Functionalized Molecules and Development towards New Methodologies" on 21.7.12 at the Shanghai Engineering Research Center of Molecular Therapeutics and New Drug Development, East China Normal University, Shanghai.
- "Development of Green Processes for novel bioactive molecules" at the Institute of Chemistry, Chinese Academy of Science, Beijing, P R China during 24.7.12

Dr PC Neog, CS

- "Environment Awareness and Clean Jorhat city" in World Environment Day at Dhenususa HS School organised by SEWA, Bahana, Jorhat



- Lecture in inaugural function of National Secondary Education Mission, Jorhat, on 6.4.12
- Talk in the seminar "Disaster management" organised by Rastriya Madhyamic Siksha Abhijan and Inspector of Schools, Jorhat District Circle, on 9.4.12
- Talk at the primary teachers training workshop at Jorhat on 17.11.12

Dr T C Bora, CS

- Talk on "Biodiversity in and around us" and a documentary show on wild life in 20<sup>th</sup> National Children Science Congress 2012, Jorhat District, held at N N Saikia College, Titabar on 2.11.12
- Talk on "Biodiversity of North East gene pool where we live in" at Balya Bhavan, High School organized by the secretary, DNA Club, Balya Bhavan, Jorhat
- Two talks on Biodiversity and wild life and documentary show entitled "Jaws of Death" in Biswanath College, Charali and Chaiduar College, Gohpur on 13.10.12
- Technology Day Talk and video show on wild life of Kaziranga on National Science Day, on 28.3.13 at Sadhani Jatiyo Vidyalaya, Jorhat, Assam.
- Talk as Chief Guest and a documentary show on *Kaziranga Rhinoland*, in the Silver Jubilee celebration of Dubia Girls' H.E. & M.E. School, Dubia on 28.3.13

Dr PK Chowdhury, CS

- Keynote address "Nature Has made Nothing in Vain" in RANPR 2012, Aizawl held at Pachhunga University College, Aizawl 29.11.12-1.12.12

Dr Saurabh Barua, SPS

- "Global Warming: A perspective" on the occasion of World Environment Day in Sishu Bharati English Medium School, at Dergaon on 5.6.12
- "Seismic Hazard Assesment:Its perspective" in DCB college, organized by Deptt of Physics on 6.8.12
- "Indian Scientific expedition to Antarctica" on the occasion of Youth festival, organized by Bhakatpamua High School, Mohbonda, Jorhat during 8.11.12
- "Present seismicity scenario in Northeastern India" in Saint Anthony College, towards "Faculty training and motivation and adoption of School and colleges by CSIR lab" organized by CSIR NEIST-Jorhat on 27.11.12
- "Seismic Hazard Assesment: Its perspective" in the refresher Course in Environmental Science, organized by UGC-Academic staff college: Gauhati University on 6.6.13
- "Indian Scientific expedition to Antarctica" in NEIST-Auditorium, organized by Govt. of Assam during district level Bijnan Jagaran Jatra 2012-2013 on 8.1.13
- "Environmental issues and erosion in Majuli" in Sensitization program on climate and weather related issues organized by ASTEC, Assam at Kamalabari, Majuli during 9.2.13
- Present seismicity scenario in Northeastern India in Refresher course of college faculty on Disaster management held at Gauhati University at UGC-Academic staff college during 11-13.2.13

Dr PJ Bhuyan, PS

- "Sustainable Chemistry and augmentation of indole" in the Annual Convention of Indian Chemical Society, at NITTRI, Bhopal, 12-15.12.12

Dr HB Singh, Scientist-in-Charge

- Sustainable ecotourism For AIR, Imphal (2 episodes) which were Broadcasted on 9&10.10.12
- Medicinal herbs: affordable health care perspectives in UGC sponsored refreshers course for College & University Teachers held at Manipur University during 25.1.13
- Biodiversity conservation: ecotourism perspectives in UGC sponsored refreshers course for College & University Teachers held at Manipur University during 4.2.13

Dr T Goswami

- Possibility of Coir based Industry in NE Region of India in Seminar on popularization of Coir Technologies in NE States organized by and held at CSIR- NEIST during 6-7.11.12



Mr Sanjay Deori, SS

- “Necessity of Education, Science & Technology for Building New India” as a distinguished speaker at Youth Festival under Gyanjyoti Plan 2012 organized by Madhavdeb Seminary High School, Alengi, Titabar, Jorhat (Assam) on 22.11.12

Dr Dipul Kalita, Sc

- “Use of plant secondary metabolites for human welfare with reference to biodiesel” at Pandu College Guwahati, 11-12.5.12
- Prospects of fibre based small scale industries in NE region in Seminar on popularization of Coir Technologies in NE States organized by and held at CSIR- NEIST during 6-7.11.12
- Green composite material from bio resources' on workshop in Agricultural Innovative programme – creating value added product from agricultural waste held at AAU, Jorhat during 4-6.12.12
- Research and development in cane and bamboo craft for quality improvement in Seminar cum workshop on 'Comprehensive development of cane bamboo craft- Quality management and Adoption of advance technology held at Conference Hall, Nambor Guest House, Golaghat during 30.3.13

Dr AM Das, Sc

- Value added products from natural sources : Biodegradable fibre composites and others at Polymer & Surface Engineering Department, Institute of Chemical Technology, Mumbai on 28.1.13

Dr Manash Ranjan Das, Sc

- Synthesis and Characterization of Metal Nanoparticle-Graphene Composites: The Catalyst for Non-Conventional Energy Source at the International Seminar and Workshop on Energy, Sustainability and Development was held at Sibsagar College, Joysagar during 12-14.10.12

Mr Dipak Basumatari, Sc

- “Water Conservation” as a distinguished speaker at Youth Festival under Gyanjyoti Plan 2012 organized by Madhavdeb Seminary High School, Alengi, Titabar, Jorhat (Assam) on 22.11.12.

Mr Ajay Kumar, Incharge, Rajbhasa

- Delivered lecture as Chief Guest “The possibilities and Problems of Rashtrabhasa in North-East” in two days (7-8.4.12) Rashtriya Rashtrbhasa Sammelan at Dimpur, Nagaland
- As chief guest delivered lecture on one day Hindi Teachers Training Programme on 1.6.12 at Bahona Hindi Mahavidyalaya, Jorhat sponsored by Assam Rashtrbhasa Prachar Samiti, Guwahati to train the Hindi Teachers of Jorhat District.
- Lecture “Official Language Act” and “Hindi Letter and Note Writing” at State Bank of India Learning Centre, Jorhat on 27 & 28.6.12 respectively.
- As chief speaker in a Hindi Workshop on the topic “Hindi Correspondence in day to day work” on 11.09.12 at Rain Forest Research Institute, (ICFRE), Ministry of Environment and Forests, Government of India, Jorhat
- Lecture as chief guest on “Rajbhasa Implementation in Office” on 15.9.12 on the occasion of Hindi Day/ Fortnight at Central Silk Board, Ministry of Textile, Govt of India, Regional Sericulture Research Station, Rowrah.
- As chief guest delivered lecture on the occasion of Hindi Fortnight Celebration of Central Bank of India on 16.9.12
- Invited as chief guest to judge the Hindi Poem recitation of various level of students at Kendriya Vidyalaya, NEIST, Jorhat on 27.9.12
- As chief guest delivered lecture on the occasion of Hindi Fortnight Celebration and judged Hindi Poem recitation of students at Kendriya Vidyalaya, Air Force Station, Jorhat on 29.9.12

Mr Edja F Assaovo, CSIR-TWAS Fellow

- National Seminar on Chemistry Education and Research and National Convention of Chemistry Teachers at Gauhati University, Guwahati during 1-4.11.12 and presented Paper “Photopolymerization of *Ricinodendron Heudelotii* (RH) oil: Kinetics and Thermal Properties” by Edja F. Assanvo and Shashi D. Baruah.



## Rajbhasha Hindi Activities

### Organisation of Hindi Workshop

To disseminate the knowledge of Rajbhasha Hindi including rules & regulation and to practice Hindi in day to day Official writing among the Scientist/Technical and Administrative Officers/Employees, Rajbhasha Section organized quarterly Hindi Workshops as per prescribed norms. Workshop included two sessions each of lectures and practical under "Table Workshop". The following workshops organized during the year:

- All the newly recruited Scientific, Technical and Administrative staff participated in the two days workshop held on 30 March and 02 April 2012. This workshop specially organized for all those who were going to appear in prescribed Hindi Course Prabodh/ Praveen/ Pragma examination. It is compulsory to pass the above Hindi Course for newly recruited Central Govt employees/ officers. Therefore, all the sessions of this course were focused on preparation of examination under the guidance of Mr Ajay Kumar, I/C Rajbhasha.
- Two days workshop was organized for Establishment and Stores & Purchase Section during 12-13 June 2012. First day covered the matters related to the importance of Official language Hindi. Second day focused on "Unicode Hindi Compatibility of Computer and use of Google Hindi". All the participants did work in Hindi on computers and practiced small translation in Hindi through Google on internet.
- All the newly recruited Technical staff participated in the two days workshop held on 4-5 March 2013 organised specially for those appearing in prescribed Hindi Course Prabodh/Praveen/Pragma examination. It is compulsory to pass the Course for newly recruited Central Govt employees/officers. Resource faculty was Mr Shankar Sharma from Rain Forest Research Institute, Jorhat.

### Hindi Teaching Scheme

A part time Hindi Teaching Scheme Centre is running at NEIST, Jorhat under the guidelines and control of Central Hindi Training Institute, New Delhi (Ministry of Home Affairs, GOI). This centre provides service compulsory Hindi Training to the officers and employees of all central Government offices, Nationalized Banks, Undertakings, Autonomous Bodies etc. on request basis. The enrollment is made on Regular or Private basis and admission are made as per eligibility and classes are conducted for regular trainees. Every year examinations are held in May and November as per guidelines of Dy Director (Exam) Hindi Teaching Scheme, New Delhi. The examination of this period:

- Under the Course Session January 2012, trainees of various offices of this region such as United bank of India, Rain Forest Research Institute, State Bank of India, Kendriya Vidyalaya and ONGC appeared. The results are for May 2012 Examination : Prabodh : 21 (Passed:21), Praveen : 30 (Passed:26), Pragma : 27 (Passed:27)
- Under the Course Session July 2012, trainees of various offices of this region such as United bank of India, Rain Forest Research Institute, BSNL, Allahabad Bank, Punjab National Bank and State Bank of India appeared. The results are for November 2012 Examination Prabodh: 11 (Passed:11), Praveen : 16 (Passed:16), Pragma: 24 (Passed:24)

### Scientific Seminar in Hindi

A scientific seminar has been organized in Hindi on 6 December 2012 at NEIST. The member of Hindi Advisory Committee, Ministry of Science & Technology and Earth Sciences, GOI Dr Dr DD Ojha was chief speaker of the seminar. He delivered talk on "Chemistry and life" in which he talked about the role of chemistry in day to day public life. Scientists and research scholars attended the seminar and benefited. Dr RC Baruah, Acting Director, NEIST expressed satisfaction over the important scientific talk in Hindi.



Dr RC Baruah, Acting Director, NEIST Jorhat (left side in centre) Dr DD Ojha (right side in centre)

### Organisation of Hindi Week

Like previous years, this year also various types of Hindi competitions were organized under the Hindi Week among the Scientist, technical and the officers & employees of administration to promote the implementation of Rajbhasha Hindi and encourage them for development of Hindi in the Institute in compliance of Rajbhasha rules, which included

**10.09.2012:** The inaugural function held. One day Hindi Workshop was organized on 10 September 2012 for all the *Rajbhasha Representatives* of Division/Section of NEIST. Both sessions focused on Official Language Policy and Annual Programme of Rajbhasha Hindi.

**11.09.2012:** Hindi Dictation competition was organized for staff members of the Institute where Mr Mritunjay Kr Mishra, PGT (Hindi), Kendriya Vidyalaya, NEIST, Jorhat was Guest Judge. Award was decided on the basis of higher correct spelling of the written paragraph.

**12.09.2012:** Hindi Spot Essay Writing competition was organized on topic “*Contribution of NEIST, Jorhat in the economic development of North- Eastern India*”.

**13.09.2012:** Quiz was organized focusing on awareness of Hindi where guest Mr Vijay Kumar Pathak, PGT (Physics), Kendriya Vidyalaya, NEIST, Jorhat was the invited Guest. Like every year staff members enthusiastically participated and increased their knowledge of Hindi. This programme was conducted by invited

**14.09.2012:** The week concluded with Hindi Day Celebration programme on 14 September, 2012 in which Dr PG Rao Director, NEIST presided over the function. He encouraged the staff to promote Hindi as Official Language and to adopt Hindi writing in day to day official correspondence as almost all the staff is trained in Hindi language through the prescribed courses. Dr JCS Kotoky, Chief Scientist and Vice-chairman, Official Language Implementation Committee, CSIR-NEIST presented the data of the progress of Hindi in the Institute. He appealed to promote Hindi in Office, as it is our constitutional responsibility. Certificate of Prabodh/Praveen/Pragya were distributed to the staff members who successfully completed the course.

*Dr PG Rao, Director, CSIR-NEIST delivering the Hindi week address. Dr JCS Katak, Chief Scientist & Vice Chairman, Official Language Implementation Committee, CSIR-NEIST seen seated on the dais.*



### Official Language Implementation Committee (OLIC), NEIST

As per provision, the OLIC meeting was organised on 18/6/2012; 28/9/2012; 5/12/2012; and 15/3/2013. Suitable decisions were taken for smooth implementation of Rajbhasha Hindi in the Institute.

### Town Official Language Implementation Committee (TOLIC), Jorhat

Dr PG Rao, Director, NEIST is Chairman of Jorhat TOLIC and Mr Ajay Kumar, Incharge Rajbhasha, NEIST is Member-Secretary of the said Committee. This Committee is formed by the Department Of Official Language, Ministry of Home Affairs, GOI, New Delhi. All Central Govt. Offices located at Jorhat Town including Military, Para-Military, Nationalised Banks, Corporation, Board, Council are members of this committee. The function of the TOLIC is to guide and evaluate member offices in terms of Implementation of Rajbhasha Hindi in their offices and organize two meetings in a year in presence of Head of the member offices.

**24<sup>th</sup> Meeting of TOLIC, Jorhat:** The 24<sup>th</sup> Meeting of TOLIC, Jorhat was held on 10 May 2012 at NEIST under the Chairmanship of Dr PG Rao. Forty members were present in the meeting from different Central Government offices of Jorhat. The meeting was conducted by member Secretary, TOLIC Mr Ajay Kumar. The members discussed on Quarterly Progress Report of Hindi, problems of Hindi staff in offices,

*Dr P G Rao as Chairman TOLIC in 24<sup>th</sup> meeting held at MS Ayangar Hall, NEIST, Jorhat*



training, bilingual computer etc. Every office presented their progress report in brief. An annual award ceremony was conducted. As per guidelines those member office that performed better in implementation of Rajbhasha Hindi during the year 2011 were awarded by chairman with mementoes and appreciation certificate. Indian Air Force, Jorhat; Central Muga & Eri Training and Research Institute, Jorhat; United bank of India, ZO, Jorhat; Kendriya Vidyalaya, NEIST, Jorhat; National Bureau of Soil Survey and Land Use Planning (ICAR), Jorhat were awarded. While ONGC, Jorhat and LIC, Jorhat were awarded for publication of Hindi magazine. The meeting ended with assurance, hope and commitment to make progress in Rajbhasha Hindi.

**25<sup>th</sup> Meeting of TOLIC, Jorhat:** The 25<sup>th</sup> Meeting of TOLIC, Jorhat was held on 7 December 2012 at NEIST, Jorhat under the Chairmanship of Dr PG Rao. The member of Hindi Advisory Committee, Ministry of Science & Technology, GOI Dr DD Ojha was present in the meeting as chief guest and Assistant Director, Department of Official language, GOI Mr Ashok Kumar was present as guest of honour. The meeting was conducted by member Secretary, TOLIC Mr Ajay Kumar. The members discussed on Quarterly Progress Report of Hindi, problems in implementation of Hindi in offices, Hindi training, bilingual name plate, computer etc. Every office presented their progress report in brief. Dr Ojha advised all the offices to promote Hindi in day to day communication and expressed the moto of ministry in terms of Rajbhasha implementation. Mr Ashok Kumar laid down brief guidelines and requested all offices to follow.

## Awards

### CSIR Technology Award, 2012 in Business Development & Technology Marketing

The CSIR Technology Award-2012 in the category of Business Development & Technology Marketing was awarded to CSIR-NEIST for significantly enhancing the business through consistently increased cash-flow and commercialization of technologies/marketing of knowledgebase during the last three years. To bring the benefits of Science to unreached section of people, the CSIR-NEIST took upon itself the task of developing simple technologies suitable for micro-scale industry which would benefit entrepreneurs and consumers from rural and urban poor besides doing high science and developing state of the art technologies. The Business development group undertook extensive promotional activities for successful commercialization of the technologies and knowledgebase. At the 70<sup>th</sup> CSIR Foundation Day function held in Vigyan Bhavan, New Delhi on 26 September 2012 Shri Vayalar Ravi, Hon'ble Minister of Science & Technology and Earth Science & Vice President, CSIR and Prof Samir K Brahmachari, Director General, CSIR presented the award to Director Dr PG Rao, Sri BC Saikia, PS and Sri Probin Boruah, PTO (both from I&BD division) on behalf of CSIR-NEIST. The award carried a cash prize of Rs. 2 lakh, a plaque and a citation.



CSIR-NEIST team, led by Dr P G Rao, Director (2<sup>nd</sup> from left), Mr BC Saikia, Principal Scientist (1<sup>st</sup> from right), Mr Probin Boruah, Principal Technical Officer (1<sup>st</sup> from left) receiving the award from Shri Vayalar Ravi, Minister of S&T and Earth Science (3<sup>rd</sup> from left) in presence of Prof Samir K Brahmachari, Director General, CSIR.

### Rajiv Gandhi Excellence Award 2012

Dr Binoy K Saikia, Scientist, Coal Chemistry Division received 'Rajiv Gandhi Excellence Award-2012' in recognition to his excellent work & services, outstanding performance in S&T. The award which is instituted in the memory of Late Shri Rajiv Gandhi was initiated by Seemapuri Times, a National News Magazine. The award was given away by Shri Sriprakash Jaiswal, Hon'ble Minister of Coal, Govt. of India, New Delhi, at a function of the presentation ceremony held on 10 July 2012 at the Speaker Hall, Constitution Club, New Delhi.



Dr Binoy K Saikia (Left), receiving the Award from Sriprakash Jaiswal, Hon'ble Minister of Coal, GOI.



**Environmentalist of the Year Award - 2012**



Dr Puja Khare receiving the award certificate

Dr Puja Khare received 'Environmentalist of the year Award 2012' conferred by National Environmental Science Academy in a function held on 29 November 2012. She worked as Scientist in Coal Chemistry Division, CSIR-NEIST from 2006-2011. Presently, she is working as scientist in CSIR-CIMAP. She has significantly contributed in the field of Environmental Sciences especially atmospheric organic pollutant. She prepared the emission profile and established various predictive models for reduction of emission from coal based industries of North East India. These studies serve as an input for formulating action plan for reduction of these pollutants in the region. She

synthesized cost efficient, effective and industrially viable composites for carbon capturing from the industrial sites. Presently, she is focusing on development of materials for carbon sequestration and conversion of aromatic agro waste into value added products by eco- friendly and economic methods.

**P C Goswami Award**

Dr B P Baruah, Sr Principal Scientist, Coal Division was awarded P C Goswami Award by Assam Science Society, Guwahati

**INSA Young Scientist Award**

Dr Suman Dasgupta, Quick Hire Fellow was awarded INSA Young Scientist Award given by Indian National Science Academy on 29 December 2012 for Good research work on Biological Sciences

**Second Best Paper Presentation award**

Ms Sangeeta Sharma, JS was awarded the second Best Paper Presentation award for her paper titled 'Low b-value prior to the Indo-Myanmar subduction zone earthquakes and precursory swarm studies for 6 May 1995 (M 6.3) earthquake' at the 2nd International Symposium on Advances in Earthquake Sciences held at the Institute of Seismological Research, Gujarat during 1-2 February 2013.

**Best Poster award**

- The paper on the topic "The Effects of Attenuation and Site on the Spectra of Microearthquakes in the Shillong Region of Northeast India" by Rajib Biswas and Saurabh Baruah has been awarded the Best Poster award in the 3rd International Geo-Hazards Research Symposium (IGRS-2012) during 10-14 June 2012 held in Uttarakhand University, Garhwal, Uttarakhand.
- Moushumi Hazarika in First International conference on Advanced Nanocomposite for Construction Materials (ICNC-2013) held at Mahatma Gandhi University, Kottayam Kerala, India on 14 March 2013.

**First Prize in Tableau Show at Republic Day Parade 2013**

CSIR-NEIST received First Prize for the Tableau in the Tableau Display at Court Field organized by District Authority, Jorhat on the occasion of 64th Republic Day Celebration on 26 January 2013. The tableau represented the Institute's achievements and activities since its inception in various areas of research as well as the technologies developed



**First Prize in implementation of Rajbhasha Hindi**

CSIR-NEIST, Jorhat bagged First Prize in implementation of Rajbhasha Hindi for the year 2011-12 among the Central Government offices of NE Region of India. The Department of Official Language, Ministry of Home Affairs, GOI selected this office on the basis of performance recorded by Regional Implementation Office, Guwahati. CSIR-NEIST has achieved the highest target of



Dr RC Boruah, Acting Director (left) and Mr Ajay Kumar, Incharge, Rajbhasha with the award



implementation in this field. The award was presented in the “East and Eastern Region Rajbhasha Conference” held at Indian Museum, Asutosh Mukherjee Birth Centenary Hall, Kolkata on 18 April 2013. On behalf of CSIR-NEIST Mr Ajay Kumar, Incharge Rajbhasha received the Shield by Shri Arun Kr Jain, Secretary, GOI. An Appreciation certificate was also presented to Mr Kumar for his commendable contribution in the implementation of Rajbhasha Hindi.

**Best exhibit in the Flower show-cum-Cooking competition**

Floriculture section, CSIR-NEIST participated in the Flower show-cum-cooking competitions organized by Lioness club of Jorhat on 10 February 2013 at Lions Multiple Project Centre, Jorhat and was adjudged the best exhibit in the show. Among the competitors, CSIR-NEIST also received the following prizes in different categories.

- |               |                |                         |
|---------------|----------------|-------------------------|
| 1. Pot Plant  | Fern & Foliage | 1st & 3rd Prize         |
| 2. Pot Plant  | Marigold       | 2nd Prize               |
| 3. Cut flower | Dahlia         | 2nd & Consolation Prize |



**Fellow & Fellowship**

**Fellowship by the Association of Biotechnology and Pharmacy**

Dr PG Rao, Director, CSIR-NEIST, has been conferred the prestigious Fellowship by the Association of Biotechnology and Pharmacy (ABAP) for his distinguished and dedicated service to the profession of Biotechnology and Pharmacy. The Fellowship was conferred by Prof W Rajendra, Professor, Dept. of Zoology, Sri Venkateswara University, Tirupati on 20 December, 2012 at the 6th Annual Convention of Association of Biotechnology and Pharmacy (ABAP) and International Conference on “Environmental Impact on Human Health and Therapeutic Challenges” held during 20-22 December, 2012.



**Fellowship of Royal Entomological Society, London UK (FRES)**

Dr. BG Unni, Chief Scientist has been elected as a Fellow of Royal Entomological Society (FRES) London UK for his significant contribution in the area of Insects (Silkworm) Biochemistry & molecular endocrinology. Dr Unni's contribution in the area of insects for the last more than three decades mainly focused to the studies related to isolation and characterization of insect neuropeptides by *In vitro* techniques, its molecular and functional properties with respect to Juvenile hormone biosynthesis and silk protein biosynthesis in silkworms and *In Vitro-In Vivo* assay with the chemically synthesized insect neuropeptides. The research outcome in the area of silkworm biochemistry and molecular biology in both basic and applied have contributed significant impact among seri-farmers with respect to the enhanced growth of the silkworms and silk fiber production in terms of quality and quantity.



**Fellow of Society of Ethnobotanist**

Dr HB Singh has been awarded Fellow of Society of Ethnobotanist (FSE) by Society of Ethnobotanists, C/O CSIR-NBRI, Lucknow.



**Fellow of Institution of Chemist (India)**

Dr Binoy K Saikia, Scientist, Coal Division was conferred the “Fellow of Institution of Chemist (India)”



## Projects

### Projects Undertaken

S. No	Title	Funding Agency	Contract Value (₹ in Lakhs)
1	Dr Jatin Kalita Techno economical studies of six technologies under coir board in North Eastern States and organization of two seminars.	Min of Micro, Small & Medium Enterprises	22.810
2	Dr B P Baruah Gradation of NE Indian coals	Coal India Ltd., (North Eastern Coalfields), Margherita	2.751
3	Dr P Barkakati Determination of modulus of soil sub-grade reaction at runaway extension for Air Force Station, Jorhat	Air Force	1.127
4	Dr TC Bora Screening and molecular characterization of microbial pathogen diversity of staphylococci and development of diagnostic test for rapid detection	Min of Science & Technology	54.700
5	Dr BP Baruah Development of feasibility assessment model for adoption of underground coal gasification technology in the North East region of India	Min of Communication & Information	111.320
6	Dr (Ms) Dipanwita Banik A study on taxonomy and ethnobotany with an emphasis to biochemical parameters of the family Myristicaceae R. Br. In North East India	Min of Science & Technology	16.160
7	Dr MJ Bordoloi Identification of bioactive compound from medicinal plants effective against multi-drug resistant Escherichia coli	Min of Science & Technology	12.720
8	Dr MJ Bordoloi Chemical investigation of species of sea stars (family Asterminidae) from Vietnam waters in search of bioactive molecules	Min of Science & Technology	3.360
9	Dr Ratul Saikia DNA fingerprinting of endophytic actinomycetes isolated from protected forest area of Assam and Mizoram	Min of Science & Technology	37.150
10	Dr RC Borah Development of an atmospheric fluidized bed combustion process for high sulphur content North Eastern Region coals of India with higher efficiency and zero green house gas emission	Min of Environment & Forest	39.700
11	Dr Lakshi Saikia Hierarchical porous solid as catalysts and catalytic support	Min of Science & Technology	25.500
12	Dr (Mrs) M Borthakur Self empowerment by the women community of the rural areas of west Jorhat (SC populated) through organic vegetable gardening as well as production of popular food viz. mushroom cultivation	Min of Science & Technology	12.000
13	Dr Manas R Das Solution chemistry approach for synthesis of metal nanoparticles on the grapheme oxide/grapheme nanosheets.	Min of Science & Technology	24.500



14	Mrs Pramila Majumdar Intensive training workshop on science communication	Min of Science & Technology	2.800
15	Dr TC Bora Detoxification of mustard seed based product through fermentation process based on north east traditional practices and their value addition	Min of Science & Technology	23.130
16	Dr SP Saikia Studies on drought resistance strategy in seedling of Teak ( <i>Tectona grandis</i> ) species and selection of improved genotype for forest management	Min of Science & Technology	35.940
17	Dr Saurabh Barua Literature survey of available earthquakes hazard assessment studies related to North Eastern Region	Assam State Disaster Authority	17.800
18	Mr Chandan Tamuly Exploration & utilization of wild edible plants consumed by ST people of Arunachal Pradesh for socio economic development of the State	Min of Science & Technology	15.222
19	Dr Saurabh Barua Seismic Vulnerability Assessment of Major Cities in North-Eastern India	North East Council	184.250
20	Dr(Mrs) Swapnali Hazarika Development of Molecular Gate Membrane for CO <sub>2</sub> Separation and Green Emission Control	Min of Science & Technology	33.318
21	Dr SB Wann Comparative antimicrobial activity and molecular characterization of <i>Clerodendrum</i> species of Thailand & India.	Min of Science & Technology	8.850

### Projects Ongoing

S. No	Title	Funding Agency	Contract Value (₹ in Lakhs)
1	Dr Mantu Bhuyan Butterfly population studies in NRL Butterfly valley	Numaligarh Refinery Limited	28.553
2	Dr BP Baruah Feasibility studies for manufacturing of soil conditioner from coal and coal waste	Directorate of geology & Mining, Govt of Nagaland	2.500
3	Mr Dipankar Neog Preparation of detail project report (DPR) CFC on knife manufacturing cluster at Karanga, Jorhat, Assam	Min of Micro, Small & Medium Enterprise	1.090
4	Dr Jatin Kalita Techno economical studies of six technologies under Coir Board in North Eastern states and organization of two seminars	Min of Micro, Small & Medium Enterprises	22.810
5	Dr BP Baruah Gradation of NE coals	Coal India Ltd., (North Eastern Coalfields), Margherita	2.751
6	Dr P Barkakati Determination of modulus of soil sub-grade reaction at runway extension for Air Force Station, Jorhat	Air Force	1.127
7	Dr R Duarah Online/real time seismic network for disaster mitigation in NE India	North Eastern Council, Shillong	426.000
8	Dr Ratul Saikia Microbial diversity and identification-application of microorganisms in agriculture and allied sectors (AMAAS)	National Bureau of Agriculturally Important Microorganisms (NBAIM), IARI	50.779