

EXTRA MURAL HUMAN RESOURCE DEVELOPMENT

CSIR Scheme of Cash Award to Bright SC / ST Students:

CSIR- New Delhi introduced a scheme of Cash Awards to motivate Bright SC / ST Students to take up science studies at +2 / Junior College level. It is well acknowledged that education acts as feeder to any development, so motivating students in this sphere with incentive mechanism will definitely accelerate the process of development of SC / ST students and subsequently their community which in turn will add to our contribution of nation building.

Altogether, 14 bright SC / ST students and who have passed Class X examination in the year 2011 from State Boards of north-eastern states were nominated. The students were taken to different laboratories of the Institute to give them an idea of research activities being carried out. The Cash award along with a certificate was given to the students at a function held on September 26th, 2011.

CSIR Programme on Youth for Leadership in Science (CPYLS)

As part of its long-term strategic planning to create a pool of talented scientific manpower in the field of research in basic & fundamental science, CSIR initiated the 'CSIR Programme on Youth for Leadership in Science' (CPYLS). The objective of the programme is to inspire and empower youth by providing opportunities beyond everyday scope of school &

was the Chief Guest of the Inaugural Function. Dr Sudhakar spoke about the contribution of NESAC towards mitigation of natural disaster and encouraged the students in his motivational speeches. In the inaugural session Dr PG Rao, Director of the Institute, encouraged the students towards scientific way of thinking. The activities of the programme were: Popular



colleges thereby transforming them to tomorrow's scientific leaders. The programme brings in worthy ideals, vital skills, and progressive paradigms, leadership qualities and a conscience towards scientific way of thinking in youth.

Although 69 students participated in the programme organized in the institute during 14-15 December, 2011. Dr S Sudhakar, Director, North Eastern Space Applications Centre (NESAC), Umiam, Meghalaya,

scientific lecture, Demonstration – cum – lecture using simple kits and chemicals. Visit round the laboratories, Students meet scientist, Hands-on-training, Semi-extempore speech competition, Cultural functions, etc.

The valedictory function was organised in the afternoon of 15 December, 2011 at Dr JN Baruah Auditorium of the institute. Dr NC Barua, Chief Scientist & Director In-charge presided over the function. Dr L Nath, Co-

ordinator of CPYLS presented a brief report of the programme. The students and the escorts expressed their happiness and thanked the institute and organizers of the programme for making excellent arrangements in all the activities. The prizes were given to the winner of Semi Extempore Speech Competition and certificate of participation were also given to all the participating students by Dr Barua. This was followed by a cultural function organised among the students. The students participated by presenting songs, dances, etc. As a part of the programme 13 students were selected on merit basis amongst 69 participating students from eight states for visit of two CSIR laboratories of their choice and the names were forwarded to HRDG, CSIR.



CSIR-NEIST organized Motivational Programme for students



(Left) Dr R C Boruah, Outstanding scientist, speaking at the Inaugural function. (Right) Students interacting with CSIR-NEIST scientist during their visit to different divisions of the Institute.

With an objective to attract and motivate students towards the area of basic science for career building, CSIR-NEIST, Jorhat, conducted a week-long motivational programme for talented students of NE region during 19-24 December 2011. Altogether 28 students and 7 teacher from different higher secondary schools/colleges of Assam and Sikkim participated in the said programme. The participating schools included Jawahar Navodaya Vidyalaya, Rothak, Sikkim, Patacharkuchi Vidyapeeth HS School, Paracharkuchi, Barpeta, Gyan Vigyan Academy, Dibrugarh, Doomdooma College, Tinsukia, Sarupathar HS School, Golaghat, Kendriya Vidyalaya, NEIST, Jorhat. The Inaugural function was held at Dr J N Baruah Auditorium where, apart from CSIR-NEIST fraternity, the participating students and teachers attended the programme. Presiding over the Inaugural function, Dr RC Boruah, Outstanding scientist, CSIR-NEIST, gave a warm welcome to the students. He cited the various

opportunities and benefits that the students can obtain from the programme for which he encouraged them to take the full advantage. Later, the students were taken round the laboratory where scientific demonstrations were given by the scientists. The students were divided into 6 various groups and allotted project work under 6 different disciplines with separate scientist guides. As a part of the programme, Dr D K Dutta, Scientist, NEIST, and Dr Thuleswar Nath, Associate Professor, Jorhat Engineering College, Jorhat, delivered popular science talks on "Nano Science and Nano Technology" and 'Axemakers Gift to Human Society', respectively. Besides all, the students also visited Tocklai Experimental Station, Assam Agricultural University, Jorhat, and also various biosphere spots and ancient engineering heritage sites at Sivasagar and Deopahar at Numaligarh. Some special highlights of the programme included an elocution competition, face to face with the scientists and also a cultural evening programme which

was held at CSIR-NEIST Staff Club, Jorhat. The valedictory function was held under the presidentship of Dr NC Baruah, Chief Scientist, CSIR-NEIST. Dr PC Neog, Senior Principal Scientist, gave a resume of the week-long programme held. In the function, the participating students and some teachers/guardians gave their feedback about the programme wherein they expressed high appreciation about the programme and mentioned that the programme was extremely useful and

it expanded their mindset. They particularly mentioned about the punctuality of each and every item of each day's agenda and also of the hospitality extended to them. Dr Baruah distributed the prizes of the elocution competition. It is also worthwhile to mention here that the programme was catalyzed and supported by the National Council for Science Technology Communications (NCSTC), Department of Science and Technology, Government of India, New Delhi.

Faculty Training and Motivation and Adoption of School and Colleges by CSIR labs

In its pursuit for motivating and building innovative disposition among students and teachers of the region the Division had successfully organised three workshops at this institute under "Faculty Training and Motivation and Adoption of School and Colleges by CSIR labs".

The first workshop was organized for the faculty members of (Physics and Chemistry subjects) of Bahona College, Jorhat; Darrang College, Tezpur; Lakhimpur Girls' College, North Lakhimpur; North Lakhimpur College, North Lakhimpur and Kendriya Vidyalaya, NEIST during 16-17 November, 2011. Altogether 34 teachers, 16 from Physics department and 18 from Chemistry department of the colleges participated in the programme.

Inaugural session was held at Dr JN Baruah Auditorium of the institute under the Chairmanship of Dr PG Rao, Director, CSIR-NEIST. While welcoming the participants and invitees, Dr Rao said that CSIR has taken up an ambitious programme for the faculty members as well as for the students of colleges and schools in order to provide the exposure to the latest developments in science & technology. He encouraged the participating teachers to update themselves with changing scenarios in science, develop linkage with scientists and other scientific organizations and to impart the same to their students so that the whole society could be benefited in



the long run. The workshop was conducted parallel in two technical sessions for two groups viz., Chemistry and Physics. The workshop included interactions of trainee teachers with the scientists and demonstration on experimental techniques along with various lectures given by eminent scientists of NEIST and invited Resource Persons in the field of Physics and Chemistry. On 17 November, 2011 the Valedictory session was organized and the session was presided by Dr RC Boruah, Outstanding Scientist, CSIR-NEIST. Delivering his Presidential address, Dr Boruah appealed to the teachers to motivate and guide their students towards basic science. Sharing their experiences, the participants gave their feedback on the programme where they expressed their appreciation and gratitude to CSIR-NEIST and CSIR for designing such an important workshop cum training programme for the benefit of faculty members and students. Participation certificates were issued to the teachers.

The second workshop for the faculty members of Botany and Zoology departments was organized during 14-15 February, 2012 at CSIR-NEIST premises. Teachers of Botany and Zoology departments of four colleges and one Kendriya Vidyalaya namely, Bahona college, Jorhat; Darrang College, Tezpur; Lakhimpur Girls' College, North Lakhimpur; North Lakhimpur College, North



Lakhimpur and Kendriya Vidyalaya, CSIR-NEIST were invited for the workshop. A total of 27 teachers comprising of 12 teachers from Botany and 15 teachers from Zoology department participated in the programme. Inaugural session held at Dr JN Baruah



The third workshop was organized for the eleventh standard students of Bahona College, Jorhat, and Kendriya Vidyalaya, NEIST-Jorhat during 29 March, 2012. A total of 24 students along with 3 escort teachers participated in the programme. The workshop included



Auditorium of the institute and was chaired by Dr RC Boruah, Outstanding Scientist, CSIR-NEIST. Dr Boruah, in his presidential address, encouraged the teachers to take up research activities apart from their regulars teaching activities.

The workshop was conducted parallel in two technical sessions for two groups viz., Botany and Zoology.

On 15 February, 2012 the workshop concluded with a Valedictory session presided over by Dr PG Rao, Director, CSIR-NEIST-Jorhat. Prof BK Konwar, Vice Chancellor, Nagaland University; Nagaland graced the session as the Chief Guest. In the beginning of the session, participating teachers shared their experiences and give feedback on the programme. The workshop received high appreciation from the participating teachers. Prof BK Konwar while delivering his speech encouraged the participating teachers to upgrade themselves with the changing scenario of science & technology.

various lecture given by eminent scientists of NEIST in the field of Chemical and Biological sciences on topics such as: "Chemistry in our life" delivered by Dr MJ Bordoloi, Sr Principal Scientist and "World of insects" delivered by Dr M Bhuyan, Scientist. The students interacted with the Resource Persons to know more on the subjects. The lecture sessions was followed by Demonstration cum interaction session. The students were divided into six groups. The groups were taken into different divisions of the institute for demonstration of ongoing R&D activities and interaction with the scientists.

The workshop concluded with a Valedictory function presided over by Dr RC Boruah, Outstanding Scientist, CSIR-NEIST. During the function some of the students and the teachers gave their feedback and highly appreciated the efforts of CSIR and NEIST. The President awarded certificates to the participating students.

EVENTS ORGANIZED

National Technology day celebrated at CSIR-NEIST



(Left) Dr J Mahanta, Director, RMRC, ICMR, Dibrugarh, delivering the technology day lecture. Also seen in the dais, Dr P G Rao, Director, CSIR-NEIST. (Right) Release of NEIST News, Jan-Feb., 2011 issue by Dr Mahanta

The CSIR-NEIST celebrated National Technology Day on 11 May, 2011 at its premises with a well charted out programme. The function was held at NEIST auditorium under the Presidentship of Dr P G Rao, Director, CSIR-NEIST, Jorhat. Welcoming the gathering, Dr Rao highlighted the significance of the day and spoke about technology developed by CSIR-NEIST over the years. He further said that CSIR-NEIST while developing technologies for large scale entrepreneurs, has also paid special emphasis and developed small and simple technologies which have benefitted people directly. He said that CSIR-NEIST is also working in the field of low cost drugs for affordable healthcare especially herbal drugs. He informed the gathering that CSIR-NEIST has been granted the license by Drugs Licensing Authority, Guwahati to manufacture drugs (recently developed herbal drugs Anti-arthritis and Fungi destruct) for free distribution to people to receive feedback. Dr J Mahanta, Director, Regional Medical Research Centre (RMRC), NE Region, ICMR, Dibrugarh, graced the function as the Chief Guest and gave an illuminating Technology Day lecture on “Challenges for technology in medical diagnostics & personalized drug therapy”. He said that the requirement for technology development has arisen to create disease free world, to sustain high quality of life

and longevity. He discussed about technologies used and challenges in Molecular diagnostics. He talked about advances in pharmacological science like Tailored Drug Therapy and Genetic Profiling. He said that nowadays predictive biomarker for various diseases have made it easy to diagnose and identify the possibility of infection early on. He explained about personalized drug therapy and advances in instruments used in medical research. He also said that Nanobiotechnology may play a tremendous role in diagnosis and therapeutics for conquering many diseases. He concluded by saying that the technologies should be developed to conquer challenges faced in medical diagnostics like etiology of unknown diseases, to develop personalized medication etc. Befitting the occasion, Mr B C Saikia, Scientist, CSIR-NEIST highlighted the patent status of the institute during the financial year 2010-2011 which showed improvement over the previous year. After which, NEIST News, a bimonthly newsletter of the institute was formerly released by the Chief Guest, who highly appreciated the publication. The day was also observed as 'Open Day' and the laboratory was kept open for the visit during morning hours. About 500 students accompanied by teachers and others came and interacted with the scientists.

Election of new office bearers for CSIR-NEIST Employee's Co-operative Credit & Thrift Society held

The Employee's Co-operative Credit & Thrift Society of CSIR-NEIST held its General Election 2011 on 12 May, 2011, for the period 2011-2012, for the offices of the Secretary (1 no.) and Member (5 nos.). Mr Mondip Boruah was elected for the post of Secretary while Mr Himen Kr Borthakur, Mr Prabin Kr Phukan, Ms. Jonali Saikia Chowdhury, Mr Chandradhar Tamuli and Mr Prasad Hazarika were elected as the Members.



Share holders of the society casting their vote on the voting day

CSIR-NEIST celebrated Country's 65th Independence Day



(Left) Dr P G Rao, Director, CSIR-NEIST, inspecting the guard of honour. (Right) Dr Rao delivering his address on the day

Amidst much gaiety and spirit, the CSIR-NEIST celebrated the country's 65th Independence Day on 15 August, 2011 with a brief function held in front of the Administrative building. The function was marked by inspection of guard of honour by Dr P G Rao, Director, CSIR-NEIST, after which the National tri-colour was hoisted before the gathering of NEIST family, students and teachers of Kendriya Vidyalaya (NEIST). After unfurling of the national flag, the national anthem was sung to pay tribute to the country's freedom fighters. Dr Rao then took the salute of March past performed by members of NEIST Security section, students of KV-NEIST and NEIST research scholars. Speaking on the occasion, Dr Rao urged one and all to rekindle their vows and to rededicate themselves for national integrity and

communal harmony. Dr Rao also gave a brief view of the achievements made by the Institute during the year 2010-2011 in terms of paper published and external cash flow which he said was the highest earned by the Institute so far. He further mentioned about the strengthening of manpower by recruiting new employees and assessment of the existing staff during the year. Dr Rao also mentioned that the year 2010-11 bears a special significance considering the Institute passing through its Golden Jubilee year. The function concluded by National song sung by the gathering.

A short cultural function was held at NEIST auditorium on the occasion which included colourful dance and song performances by NEIST researchers, KV students and children of NEIST employees.

CSIR-NEIST observed State Mourning Day 'Shok Diwas'

At the instance of Government of Assam, the CSIR-NEIST observed the State Mourning Day 'Shok Diwas' on 16th August, 2011 along with the rest of the state in the memory of those killed in bomb blast on Independence Day (15th August, 2004) at Dhemaji

under Lakhimpur district of Assam. The day is observed every year. A pledge taking function was held at NEIST auditorium in which the Director, CSIR-NEIST along with the members of staff participated in the pledge taking ceremony.

Sadbhavana Diwas

The Institute observed 'Sadbhavana Diwas' on 19 August, 2011 along with the rest of the country. The day is observed every year to commemorate the Birth Anniversary of Late

Prime Minister of India, Shri Rajiv Gandhi. The Director, CSIR-NEIST along with the members of staff participated in the pledge taking ceremony.

CSIR-NEIST dedicated the Auditorium in the name of its former Director, Late Dr J N Baruah



(Left) Dr G Thyagarajan, former UNIDO National Consultant & Former Director, CSIR-NEIST, unveiling the dedication plaque as Dr P G Rao (on his left), Director, CSIR-NEIST looks on. Dr G Thyagarajan speaking on the occasion.

As a part of the programme of CSIR-NEIST Golden Jubilee year celebration, the Director and the staff of CSIR-NEIST dedicated the Auditorium of CSIR-NEIST in the name of former Director, Late Dr J N Baruah who was one of the past leaders of yester years. At a short dedication ceremony held on 1 September, 2011 at the Auditorium, Dr G Thyagarajan, former UNIDO National Consultant & Former Director, CSIR-NEIST and other CSIR labs dedicated the Auditorium in presence of Dr P G Rao, Director, CSIR-NEIST, family members of Late Dr J N Baruah, CSIR-NEIST fraternity and members from the CSIR Pensioners' Welfare Association (NE chapter). The ceremony begun with a tribute paid to the portrait of Late Dr J N Baruah by Dr G Thyagarajan, Dr P G Rao and other distinguished personalities from the CSIR Pensioners' Welfare Association (NE chapter) after which the dedication plaque was unveiled by Dr Thyagarajan in the front side of the Auditorium. This was followed by addressing the gathering by Dr Rao and Dr Thyagarajan inside the auditorium.

Dr Rao said that in the midst of the Golden Jubilee year celebration of the Institute, the Institute feels proud and remembers the contribution of its past directors led by Late Col Dr B N Mitra and his successors who brought the laboratory from its formative years to the present state. Dr Rao further mentioned that it was the vision of Dr Thyagarajan to bring out this important infrastructure in the Institute which unlike was not present anywhere nearby during those days. Dr Rao also spoke briefly about the kind of leadership rendered by Dr Thyagarajan during his directorship in the Institute and his pioneering role in bringing projects of national and international importance in the field of agrochemicals,

pesticides, etc. Dr Thyagarajan, expressed his happiness while saying that his visit to the Institute is always a home coming. He mentioned about the contributions made by Pt. Jawaharlal Nehru and his pioneering role behind the establishment of Council of Scientific & Industrial Research (CSIR) which has emerged to be the biggest scientific organization in the world today. He also respectfully mentioned about the contribution of Shri Hussain Zahir in CSIR for bringing wide opportunities to its employees for growth in their professional career. He also spoke about the leadership extended by Dr Varadarajan, Former Director-General, CSIR, especially during national crisis faced at the time of Bhopal Gas tragedy and the pioneering role of Dr R A Mashelkar, also former Director-General of CSIR in opening new vistas of science in the CSIR. Apart from touching other facets of science, Dr Thyagarajan also said that a good leader should always lead the people by example to which he shared a famous quote by Franklin Roosevelt which says that, "There can be no better calling than service to the nation". Speaking about the importance of the day he said that an Auditorium is a symbolical place which needs to have a certain character and this dedication is given in honour of one of the finest individual and leader the Institute has in its history. Mrs Manasi Sharma Baruah, daughter of Late Dr J N Baruah in her speech spoke about the sincere dedication of his Late father towards this Institute and said that the Institute was the heart and soul for his Late father. She further expressed gratitude to CSIR-NEIST and especially to the Director, Dr Rao and Dr Thyagarajan for the recognition given to his late father by dedicating the Auditorium in his name.

CSIR-NEIST celebrated Hindi Week

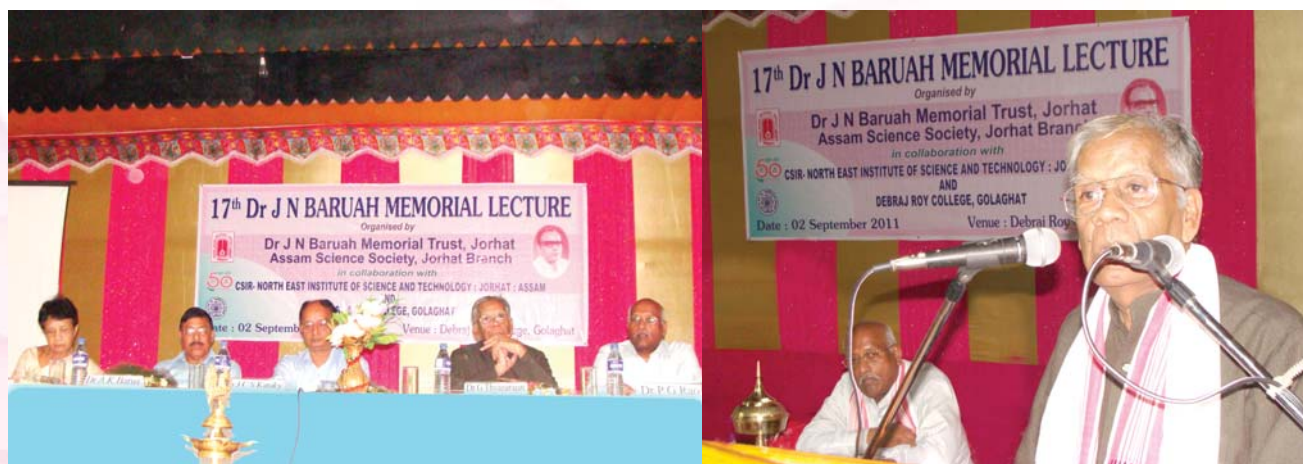


Dr Vijay Kr Verma, Associate Professor & Head, Hindi Department, J B College, Jorhat delivering his address. Also seated on the dais (from right) Dr P G Rao, Director, CSIR-NEIST and Dr J C S Katakya, Chief Scientist, CSIR-NEIST.

The CSIR-NEIST celebrated Hindi week during 7-14 September, 2011. Befitting the celebration week, a special function was held at Dr J N Baruah Auditorium on 14 September, 2011 under the Presidentship of Dr P G Rao, Director, CSIR-NEIST in which Dr Vijay Kumar Verma, Associate Professor & Head, Hindi Department, J B College, Jorhat, attended as the Chief Guest. Besides CSIR-NEIST fraternity, the function was attended by invited guests and others. In his welcome address, Dr Rao urged upon the audience to comply and popularize the use of Hindi. He further read out the message received from the Director General-CSIR, Prof

Samir K Brahmachari, on the occasion in which he appealed to all the scientists and staff members to make use of the Google software or Internet as a tool for popularizing the official language. It also said that as Central Government employees, it is our constitutional duty to collectively contribute in the implementation of Hindi as the Official Language. Addressing the audience, Dr Verma stressed on the importance of Hindi language in India. He said that in abroad around 200 Universities teaches Hindi language as they feel that India is a big market for doing business. In his introductory address, Dr J C S Katakya, Chief Scientist, said that CSIR-NEIST has all the facilities for Hindi language & training and informed that most employees have already been trained in Hindi. He further congratulated all the participants and winners of several competitions held during the weeklong celebration. Conducting the programme, Shri Ajay Kumar, In-charge-Official Language, CSIR-NEIST, declared the names of winners of the competitions who were given prizes by the Chief Guest, Dr Verma. Also, certificates were awarded to those CSIR-NEIST staff members who passed Prabodh/Praveen/Pragya exams conducted by Govt. of India under Hindi implementation programme during the year 2011. In addition, a certificate of appreciation and a cash award was awarded to the Information & Business Development Division, CSIR-NEIST for better implementation of Hindi language in publication works. The award was received by the Head of the Division, Sri B C Saikia.

CSIR-NEIST jointly organized the 17th Dr J N Baruah Memorial Lecture with Assam Science Society



(Left) Dignitaries on the dais (From right) Dr P G Rao, Director, CSIR-NEIST; Dr G thyagarajan, former Director, CSIR-NEIST & Chief Guest of the programme; Dr J C S Katakya, Chief Scientist, CSIR-NEIST & President, Assam Science Society; Dr AK Baruah, Principal D R College and Dr (Mrs) N Buragohain, President Governing Body, D R College. (Right) Dr G Thyagarajan, delivering the Dr J N Baruah Memorial Lecture.

The CSIR-NEIST organized the 17th Dr J N Baruah Memorial Lecture jointly with the Assam Science Society, Jorhat branch on 2 September, 2011 at D R College, Golaghat. Dr G Thyagarajan, former Director, CSIR-NEIST delivered the Memorial Lecture on “Mobilizing talent, ideas and enterprise for science driven economic prosperity-global experiences and North East context” before an august gathering of scientists, invited guests, research scholars, teachers and students from D R College and others. Dr Thyagarajan in his very enlightening topic spoke about the progress and developments taking place in developed countries in terms of enterprise and the booming industrial ventures. Earlier Dr A K Baruah, Principal of D R College delivered the welcome address where he said that the college during its 63 years of its existence has imparted quality education to the youth belonging to diverse ethnic and different cultural communities of North East India. He also spoke about the academic activities of the college and its achievements over the years. Dr J C S Katakya delivered the presidential address and highlighted the activities of the Assam Science Society, Jorhat Branch. A rich floral tribute was bestowed to the portrait of (Late) Dr J N Baruah by the dignitaries and members of the Dr J N Baruah Memorial Trust. Dr P G Rao, Director, CSIR-NEIST in his Inaugural address said that it was a very auspicious day to pay tribute to the distinguished

scientist who has contributed immensely to science in North East India. He further mentioned that it is a matter of great joy to have Dr G Thyagarajan, who was closely associated with (Late) Dr Baruah during his tenure at RRL Jorhat (now CSIR-NEIST) to deliver the 17th Dr J N Baruah Memorial Lecture. He mentioned that (Late) Dr Baruah initiated a number of programs for scientific temperament and numerous technologies were developed during his tenure at CSIR-NEIST. Dr Rao also thanked the Dr J N Baruah Memorial Trust for the opportunity extended to him to inaugurate the lecture and associating him with the program. A brief biography of (Late) Dr Baruah was also read out for the benefit of the audience. Dr B G Unni, Chief Scientist, CSIR-NEIST Jorhat gave a brief introduction of the Chief Guest, Dr G Thyagarajan, who was former Director of 3 CSIR laboratories. Other speakers included Dr (Mrs) N Buragohain, President, Governing Body of D R College and Dr Manash Pratim Baruah son of (Late) Dr J N Baruah. As a part of the programme, The Assam Science Society awarded cash award to Ms Madhusmita Baruah of Bahona College, Jorhat who comes from an economically weaker section of society for her excellent performance in her matriculate examination in 2011. The meeting concluded with a vote of thanks delivered by Dr I C Baruah, Secretary, Assam Science Society, Jorhat Branch.

CSIR-NEIST celebrated 69th CSIR Foundation Day



(Left) Dr K V Raghavan, INAE, Distinguished Professor, Indian Institute of Chemical Technology, Hyderabad, delivering the CSIR Technology Day lecture. (Right) A section of audience at the celebration function.

The CSIR—NEIST celebrated the 69th CSIR Foundation Day at its premises on 26 September, 2011 with a well charted out programme. The function was held under the Presidentship of Dr R C Boruah, Outstanding Scientist, CSIR-NEIST at Dr J N Baruah Auditorium which was attended by a galaxy of invited guests, scientists, students, research scholars and CSIR-NEIST fraternity

both existing and retired. Dr K V Raghavan, INAE, Distinguished Professor, Indian Institute of Chemical Technology, Hyderabad graced the occasion as the Chief Guest and delivered the Foundation Day lecture. The programme began with CSIR theme song screened through A/V. Welcoming the august gathering, Dr P C Neog, Senior Principal Scientist & Programme

Coordinator mentioned that this year's celebration bears a special significance as the Institute has been awarded the CSIR Technology Award 2011 in the area of Life Sciences for the technology on "Terminalia chebula based bioformulation for anti-flacherie disease and silk enhancement to be formally awarded to the CSIR-NEIST team at the CSIR Foundation Day celebration function held at Vigyan Bhawan, CSIR Hqrs., New Delhi on the day. Delivering the Foundation Day lecture on "Clean technologies for Pharmaceutical Synthesis-Recent Trends", Dr Raghavan said that the Pharmaceutical Industry forms an important segment of Industries in the Country capturing more than 95% of Indian Modern Healthcare and a record of 20,000 registered units manufacturing 500 bulk drugs and 2400 formulations per annum. Indian Pharmaceutical Industry constitutes 13% of world market, he informed. Dr Raghavan also highlighted on the various challenges faced by the Modern Pharmaceutical Synthesis which concerns with the unique structure and property behavior of each drug molecule and the Chemical or Biological or their combination employed in the synthesis. Dr Raghavan further explained the various unit processes and unit operations for pharmaceutical synthesis and said that a batch for a semi batch reactor forms the heart of unit processing operation. Dr Raghavan also stressed on the environmental aspect of pharmaceutical synthesis and informed that there are 4 factors to keep in mind while assessing clean technologies which are E factor for pharma waste generation, Process Mass Intensity (PMI) for Green technologies, E factor (PMI-I) and Hazardous Air

Pollution Standards (HAPI).

As a part of the celebration, the members of staff who retired during the year 2010-11 were felicitated with shawls and other gift items as a token of appreciation for the services rendered to the Institute in particular and the CSIR in general. Also members of staff who have completed 25 years in the service were felicitated with wrist watches. In the function, winners of various competitions viz., Essay competition, Drawing competition and Quiz competition, held under the banner of Foundation Day celebration were suitably awarded. Other awards included cash awards to meritorious SC/ST students who had passed HSLC in 2011 from different state boards securing highest scores in Science subject and a Lumpsum CSIR cash award for excellence in Sports.

Delivering his Presidential speech, Dr R C Boruah, expressed his gratitude to Dr Raghavan for his deliberation on such an important subject. Speaking about the day, Dr Boruah said that the CSIR has emerged as the most diversified public organization with its mandate to provide affordable healthcare, rural housing, food security, safe drinking portable water, etc. Since its inception in 1942 the CSIR has been significantly contributing in the areas of Pharmaceutical, Biological, Engineering, Materials Science, Earth Sciences, etc, he opined. Later on, the Day was declared as 'Open Day' and the Institute was kept open for the visit of students and general public. More than 500 students from nearby schools and colleges visited the various R&D departments of the laboratory to see for themselves the various on-going research activities.

CSIR-NEIST observed Vigilance Awareness week



(Left) Dr G Thyagarajan, UNIDO National Consultant and Senior Former Director of CSIR-NEIST delivering his speech.

CSIR-NEIST observed Vigilance Awareness Week 2011 during 31 October, 2011 to 5 November, 2011. In this connection various programmes were organized in the Institute to spread awareness among the employees about issues relating to vigilance. The inaugural function was marked by pledge taking ceremony on 25 October, 2011 under the chairmanship of Dr P G Rao, Director, CSIR-NEIST who administered pledge to the employees. The Week was marked by exhibition of banners/posters etc. in various parts of the Institute for spreading awareness among the employees and the general public. Also a quiz competition was organized on 9 November, 2011 at the Institute for the employees of CSIR-NEIST. This year the awareness activities were also held beyond the awareness week as the Institute was celebrating its Golden Jubilee celebration simultaneously. The week was concluded with a Valedictory function held on 11

November, 2011 under the Presidentship of Dr Rao, wherein Dr G Thyagarajan, UNIDO National Consultant and Senior Most Former Director of CSIR-NEIST attended as Chief Guest. Delivering his welcome address, Sri S K Pal, Administrative Officer, CSIR-NEIST spoke about the importance of the week and the need for spreading awareness among all so as to fight collectively against corruption in any sphere of our lives. Dr Thyagarajan delivered a thought provoking lecture in his very lucid and intelligible address before the gathering. In his speech he urged one and all to be vigil

and vow to stand on the way of any sort of corruption in their day-to-day lives. In his Presidential address, Dr Rao gave stress on the importance of avoiding delay in processing of files and proposals as the same may cause loss of fund to the Government and the individual concern which can be interpreted as indirect corruption. He also urged the gathering to be more positive in their thoughts and attitude towards work and be free from attitudinal and ego corruption. In the function, prizes were distributed to the winners of Quiz competition held during the week.

CSIR-NEIST hosted 43rd SSBMT (Outdoor) Zonal



(Left) Arjun Bhogeswar Baruah, delivering speech as Chief Guest at the Inauguration of 43rd SSBMT (Right) Dr R C Boruah, Outstanding Scientist & Director-in-charge, CSIR-NEIST, welcoming the participants at the Inaugural function.

The CSIR-NEIST hosted the 43rd Shanti Swarup Bhatnagar Memorial Tournament (Outdoor) Zonal held during 21-23 January, 2012 at its premises, which is a mega sports event under the aegis of CSIR Sports Promotion Board. The tournament is named in honour of Dr Shanti Swarup Bhatnagar, the first Director-General of CSIR. The Tournament was inaugurated with much fun and gaiety on 20 January, 2012 at CSIR-NEIST Sports Complex by Arjun Bhogeswar Baruah, who attended the function as the Chief Guest. Besides CSIR-NEIST fraternity and the participants from other CSIR labs, the function was attended by Dr R Madhan, Principal Scientist, NIO-Goa & Observer, CSIR Sports Promotion Board. The function started with CSIR song by CSIR-NEIST staff members. Welcoming the participants and invitees, Dr R C Boruah, Outstanding Scientist & Chief Adviser of the Local Organizing Committee, 43rd SSBMT, recalled memories of similar event held twice in the past at CSIR-NEIST, first in January, 1979 and second in December, 2007.

He opined that the tournament may bring out the best sportsmanship among the players and further strengthen the sense of brotherhood in CSIR family. The event was marked by hoisting of the CSIR Sports flag by

the Chief Guest, Arjun Bhogeswar Baruah, March Past performed by the participating team from CSIR labs led



Inauguration of the tournament by release of colourful balloons.

by Dr B P Baruah, Principal Scientist, CSIR-NEIST and students of KV-NEIST and Band play by 11th Assam Police Battalion, Dergaon.

Delivering speech as the Chief Guest, Arjun Bhogeswar spoke about the importance of sports and games and its career development prospect among good sportsmen. He further encouraged the players to play the games in the right spirit and wished them all good luck. To commemorate the event, an attractive Souvenir titled, "Prayaas" was released by the Chief Guest and the event was inaugurated by release of colourful balloons. The three-day outdoor tournament comprised of Cricket and Volleyball matches held in several venues viz., JDSA Sports Complex, Assam Agricultural University Playground and Jorhat Gymkhana Club Playground, besides CSIR-NEIST Sports Complex. The participating players were from CSIR-NCL, Pune; CSIR-CGCRI, Kolkata; CSIR-NPL, New Delhi; CSIR-IGIB, New Delhi; CSIR-NML, Jamshedpur; CSIR-CIMFR, Dhanbad; CSIR-CBRI, Roorkee; CSIR-CSIO, Chandigarh; CSIR-AMPRI, Bhopal and CSIR Hqrs. A daily Bulletin was also brought out during the period highlighting everyday activities and news from the sports arena besides other interesting sections. Other Highlights included cultural programmes organized in the evening hours during 21-22 January, 2012. Prizes were also distributed to Man of the Match of Cricket matches held each day and also to the best player of Volleyball matches. The tournament came to an end with a Valedictory function held on 23 January, 2012 at Dr J N Baruah Auditorium which was attended by Dr R Madhan, Principal Scientist, NIO-Goa & Observer, CSIR Sports Promotion Board as the Chief Guest. The function commenced with CSIR song which was displayed through audio-visual system.

Dr R Madhan, in his speech appreciated Dr P G Rao and his team for hosting the 43rd SSBMT at CSIR-NEIST and the overall arrangements made for their comfortable stay during the said period. He congratulated all participating teams from different CSIR labs for their active participation and wished them luck in coming times. He further urged the senior players to set exemplary roles for the upcoming young players on and off the field. Delivering his speech, Dr P G Rao, Director, CSIR-NEIST, appealed to the participants to continue their efforts to keep the CSIR team strong in all sectors and to uphold the spirit of oneness.

The participants present in the function gave a standing ovation to the Director, CSIR-NEIST and his team, as a gesture to express their gratitude for the local hospitality. In the function, prizes were distributed under different categories. Man of the Tournament was awarded to Mr Mudit Sarma of NPL-New Delhi in Volleyball and Mr A S Phadke of NCL-Pune in Cricket. CGCRI-Kolkata was recognized as the best discipline team and IGIB-New Delhi received the prize for Best March Past team.



Cricket match in action at JDSA ground, Jorhat.



An exciting moment at the Volleyball match at CSIR-NEIST sports complex.



Dr P G Rao, Director, CSIR-NEIST speaking at the Valedictory function. Also seen seated on the dais is Dr R Madhan, Principal Scientist, CSIR-NIO & Observer, CSIR Sports Promotion Board.

New Year's Message by Dr R C Boruah, Director-in-charge



(Left) Dr R C Boruah, Outstanding Scientist, delivering New Year's message. (Right) Section of CSIR-NEIST staff members.

Dr R C Boruah, Outstanding Scientist & Director-in-charge, addressed the CSIR-NEIST staff members on 2 January, 2012 at Dr J N Baruah Auditorium and extended his greetings to all for a Happy and Prosperous New Year 2012. In his address, Dr Boruah gave a gist of the activities and achievements of the Institute during the year 2011 wherein he mentioned some significant events such as the national and international tie-ups made by the Institute with other organizations and institutes, various prestigious awards conferred on the Institute and its scientists and the Institute's performance in publication and annual turnover. Dr Boruah also mentioned about the completion of Golden Jubilee celebration of the Institute and various activities held under the banner. He congratulated all the staff members for their services and hard work in keeping the NEIST flag high. He further appealed to them, to begin the journey into 2012 with a positive attitude, rededication and increased efforts to work for the betterment of the

Institute and the society. On the occasion, Dr Boruah also read out the messages from Dr P G Rao, Director, CSIR-NEIST, who could not be present on the day and also from Prof Samir K Brahmachari, Director-General, CSIR to entire CSIR family. Dr Rao in his message conveyed that, New Year is the time to re-think and look back at our plans, dreams, targets and achievements and to re-cast our programmes to achieve higher targets with more dedication and hard work for the coming year. He conveyed that the year 2012 be declared as the "Year of Care" to make the output of Science & Technology reach to the common man. Prof Samir K Brahmachari, DG-CSIR, in his message expressed his gratitude to the entire CSIR family for the success achieved by CSIR in the year 2011. He appealed to all to deliver further and achieve greater heights in 2012. He also conveyed his hope that the efforts of CSIR should reach the people from as far as Tripura and beyond, through S&T intervention.

Republic Day celebration at CSIR-NEIST



(Left) Dr P G Rao, Director, CSIR-NEIST inspecting the guard of honour. (Right) Dr P G Rao, addressing the gathering on the day.

CSIR-NEIST celebrated the country's 63rd Republic Day with much enthusiasm and gaiety on 26 January, 2012. The day was celebrated with a short programme held in front of the administrative building. Dr P G Rao, CSIR-

NEIST, inspected the guard of honour followed by unfurling of the national flag in presence of NEIST family and the national anthem to pay respect to the country's immense pride and glory. The main attraction of the day

was the parade performed by NEIST security staff members, research scholars of NEIST and students of NEIST KV school altogether. Addressing the gathering on the day, Dr P G Rao, Director, CSIR-NEIST said that the day is celebrated to remember and honour the country's great heroes who sacrificed their lives for the sake of country's independence, sovereignty and integrity. He appealed to all to renew their pledge to protect and respect the motherland.

Dr Rao also gave some highlights about the Institute's

achievements in the area of publications, awards, patents granted and filed and annual turnover. On the societal front, he mentioned about the various awareness and training programmes organized by the Institute on for the benefit of marginal farmers, unemployed youths and women self help groups. Later, as a part of the celebration, sweets were distributed to the children of NEIST staff members followed by a short cultural programme at Dr J N Baruah Auditorium.

CSIR-NEIST celebrated National Science Day



Er K G Deb Krori delivering the Science Day lecture. Also seen seated on the dais (from right), Dr R C Boruah, Outstanding Scientist & Director-in-charge and Dr P R Bhattacharyya, Senior Principal Scientist and Coordinator of the programme.

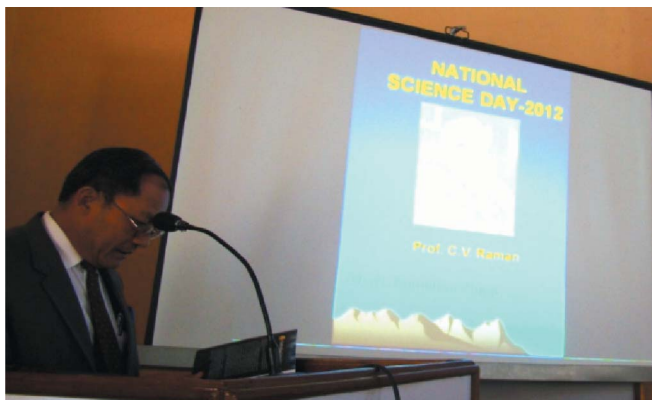
The CSIR-NEIST celebrated National Science Day with a well charted out programme on 28 February, 2012 at its premises. Held at Dr JN Baruah auditorium, the NSD celebration function was presided over by Dr RC Boruah, Outstanding Scientist & Director-in-charge, CSIR-NEIST in which Shri Krishna Gopal Deb Krori, Chief Consultant, Water & Power Consultancy Service (WAPCOS), a Govt. of India Undertaking, attended as the Chief Guest and delivered the National Science Day lecture. The function was largely attended by invited dignitaries, distinguished scientists, students, teachers, science fans and others besides the scientific fraternity of CSIR-NEIST, both old and new. Welcoming the

audience, Dr P R Bhattacharyya, Senior Principal Scientist, CSIR-NEIST, in his welcome speech highlighted Dr CV Raman's work in creating the Raman Effect and the celebration of Science day to commemorate his discovery. He also mentioned about the golden past of India in science and technology and stressed on the need for introspection on slow growth of Science & Technology in India. Delivering the Science Day lecture, Shri Deb Krori mentioned the works of Sir M Vishweshwaraiah and various other stalwarts in the field of medicine, astronomy etc. He further briefed about the transformation of Dr CV Raman from an administrator to a scientist and stressed on the need for research in basic science for achieving excellence in applied science. Mr Krori further lauded the contribution of CSIR-NEIST towards science and further appealed to the scientists to bring their work to the international level wherein he particularly mentioned about the approach in earthquake study considering NE as an earthquake prone zone. He also told that India has a long way to go, though a lot of progress has been made in the field of science and technology. He highlighted the importance and necessity of the original research work in both basic and applied science for the development of the region in particular and the country as well. In his Presidential remarks, Dr R C Boruah also mentioned the necessity and importance of basic research. CSIR-NEIST has worked in this direction and published a good number of research papers in the National and International Journals with high impact factors in last year and received CSIR Technology Awards since past two years, he opined.

CSIR-NEIST Substation celebrated National Science Day

The CSIR-NEIST Substation at Lamphelpat, Imphal celebrated National Science Day on 28 February, 2012 as an activity of the program "DNA Clubs: DBT-TERI mentoring schools of northeast". The programme was held under the Presidentship of Dr H B Singh, Scientist-in-Charge, CSIR-NEIST Substation wherein

Dr R K Ranjan, Director, CDC, Manipur University, Shri Th Surendranath Singh, Director, MASTEC, Imphal, Prof N Rajmuhon Singh, Chemistry Dept, Manipur University, Prof B M Sharma, Life Sciences Dept, Manipur University and Dr H N Sharma, President, Manipur Science Teachers' Forum graced the



Prof N Rajmuhon Singh, Chemistry Dept, Manipur University delivering his lecture on "CV Raman & National Science Day"

occasion as the Chief Guest and Guests of Honour respectively.

In the programme, a series of lecture were delivered by the dignitaries. Prof Rajmuhon Singh spoke on "CV Raman & National Science Day", Shri Th Surendranath Singh on "Nobel Prizes: A Profile", Prof B M Sharma on "Protection of Environment", Dr HN Sharma on "Degradation of Forest Resource of Manipur" & Dr H B Singh on "Medicinal Plant Resources and its Sustainable Utilization". The programme was attended by teachers and students from various DNA Club Schools of Manipur numbering 150.

CSIR-NEIST celebrated International Women's Day 2012

CSIR-NEIST celebrated International Women's Day 2012 with a series of activities held under its banner. The celebration was inaugurated with a quiz competition held among staff members of the Institute on 1 March, 2012 wherein, Dr RC Boruah, Director-in-charge, acted as the Chairman. In his speech, Dr Boruah highlighted the success stories of women in various arena of work with an emphasis to science. As a classic example he mentioned the research work of Nobel laureate Marie Curie. He also highlighted the status of ladyemployees working in the Institute in which he mentioned that the percentage of recruited lady scientists are yet to be improved to come at par with men scientists.

While the percentage of women is more than 60 for group I and II and for project assistants, JRFs/SRFs/RA/Women Scientists/Scientists as QHF, the same is quite less compared to male staff in group III and IV, he opined. Dr Kiran Tamuly, Senior Medical Officer and the senior most lady employee of CSIR-NEIST was present as special guest at the function. Dr Swapnali Hazarika, Scientist and convenor of International Women's Day Celebration Committee 2012 of CSIR-NEIST briefly mentioned the activities to be organized under the auspices of the International Women's Day celebration viz., quiz competition, essay writing competition, health awareness programme and the concluding programme for celebration etc in her welcome address. Altogether 7 teams participated in the quiz competition.

The celebration function was formally held on 13 March, 2012 under the Presidentship of Dr P G Rao, Director, CSIR-NEIST, instead of 8th March which fell on a closed holiday, wherein Prof Shelley Bhattacharya, Visva-Bharati University, West Bengal graced the occasion as the Chief Guest. Besides CSIR-NEIST fraternity, the



Prof Shelley Bhattacharya, delivering her speech as the Chief Guest.

function was attended by invited guests and other dignitaries. In her welcome address, Dr Hazarika stressed on the growing importance of women empowerment which needs further encouragement by all, particularly by the men. She also spoke briefly on the achievements and recognition earned by the lady scientists and other staff members of the Institute. In her address as the chief guest, Dr Shelley Bhattacharya, gave a talk on the genesis, importance and impact of International Women's Day. In the function, prizes were distributed to the winners of quiz and essay writing competition by the Chief Guest. In his presidential remark, Dr PG Rao, Director, briefed about the various activities organized by the Institute every year to mark the celebration.

CSIR-NEIST celebrated 51st Foundation Day



Dignitaries seated on the dais (from left), Ms Oratai Silapanaporn, Deputy Director General, The Queen Sirikit Department of Sericulture, Thailand; Dr Peeradet Tongumpai, Director, Agricultural Research Development Agency, Bangkok, Thailand; Dr P G Rao, Director, CSIR-NEIST; and Mr Prasert Gosalvitra, Director General, The Queen Sirikit Department of Sericulture.

The CSIR-NEIST celebrated its 51st Foundation Day on 19 March 2012 with a well charted out programme, instead of the actual day i.e 18th March which fell on a closed holiday. Besides CSIR-NEIST fraternity, the function was attended by eminent scientists, invited dignitaries from India and Thailand, guests, prominent citizens of the town, members of press and media, students and teachers of nearby schools, colleges and universities. Dr Peeradet Tongumpai, Director, Agricultural Research Development Agency, Bangkok, Thailand graced the occasion as the Chief Guest and delivered lecture on “Research in Agriculture in Thailand”. In his speech he highlighted the national policy and strategies of Thailand in agricultural research. With only 36% of academicians/ researchers the country

has made a significant contribution in agricultural research. Few research products of ARDA were commercialized, licensed to SME and Private sector, he emphasized. Also, Mr Prasert Gosalvitra, Director General, and Ms Oratai Silapan, Deputy Director General, The Queen Sirikit Department of Sericulture were present as Guest of Honour and Special Guest, respectively. In their speech they expressed their gratitude to the Institute to have the opportunity to discuss with the scientists to identify the area of future collaborative research on sericulture. In his presidential address, Dr PG Rao, Director, CSIR-NEIST mentioned that the present visit of the Thailand delegates would strengthen the MoU signed between ARDA, Bangkok, Thailand and CSIR-NEIST in the mid of the year, 2011 for future collaborative research which also conforms to the “Look East” policy of the Govt. of India. Like ARDA, CSIR-NEIST is also on the way to develop product to commercialize based on research on natural resources, he added.

On the occasion, a book on popularization of science “Alap Vigyan, alap chinta” written by Dr CN Saikia, former Scientist of CSIR-NEIST was released by Dr PG Rao, Director, CSIR-NEIST. Also, the draft of “CSIR-NEIST Highlights 2011–2012” was released by Dr Peeradet Tongumpai. Certificate of appreciation were awarded to staff members who excelled in their performances and rendered exemplary performances in their respective fields during the year 2011-12. Members of the staff who superannuated during the year 2011–12 were felicitated for the services rendered towards the growth and development of the Institute. The day was also observed as 'Open Day' in the morning hours between 0930 to 1200 hrs. About 400 students from different schools of Jorhat town along with their teachers visited the institute.



(Left) Dr Peeradet Tongumpai, Director, Agricultural Research Development Agency delivering the Foundation Day lecture. (Right) Release of Highlights 2011-12 by Dr Peeradet Tongumpai, Director, Agricultural Research Development Agency, Bangkok.

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 DK Bora	Geoscience	Estimation of Crustal Discontinuities using digital Seismic waves in Shillong - Mikir Hills Plateau of North East India.	Dibrugarh	2011	Dr S Baruah
2	Dr Devid Kardong	Biotechnology	Studies on Microbiological and Biochemical aspects of Chaimod(PO:RO): A Traditional Alcoholic Beverage of Mishing Tribes of Assam.	Dibrugarh	2011	Dr TC Bora
3	Dr Kalyan Kumar Hazarika	Natural Products Chemistry	Reactivity of some bio-active natural products and their synthetic analogs towards bio-molecules: a molecular modelling approach	Tezpur	June, 2011	Dr NC Barua
4	Dr Santanu Baruah	Geoscience	Wave form modelling and stress tensor inversion for simultaneous determination of source mechanism and current stress regime in northeastern India.	Dibrugarh	Jan, 2012	Dr S Baruah
5	Dr Kalpataru Dutta Mudoj	MAEP	In vitro mass production of quality propagules of two commercially important bamboo species, viz, balcooa Roxb and Bambusa nutans wall ex munro	Dibrugarh	Jan, 2012	Dr Mina Borthakur
6	Dr Susmita Singh	Biotechnology	Studies on Microbial amino acid oxidases for production of amino acids	Dibrugarh	Jan, 2012	Dr RL Bezbaruah
7	Dr JP Saikia	Natural Products Chemistry	Molecular and Biochemical characterization of four Araceae species	Tezpur	Jan, 2012	Dr NC Barua
8	Dr Siddhartha Bhorodwaj	Materials science	Development of layer clay based supported metal ions, metal nanoparticles and heteropoly acids composites and their applications	Gauhati	Feb, 2012	Dr DK Dutta
9	Dr Kartik Neog	Biotechnology	Study on Biochemical stimulants in host plants for developing an effective indoor rearing technique of muga silkworm Antheraea assamensis, Helfer(Lepidoptera: Saturniidae)	Gauhati	March, 2012	Dr BG Unni

VISIT ABROAD

Sl. No.	Name	Designation	Country visited	Purpose	Period	
					From	To
1	Dr T Goswami	Sr. Scientist	Srilanka	As an expert for the training programme entitled "Extraction of fibres & development of value added products based on banana fibre" under South to South Cooperation Programme of the UNDP	10-03-2011	25-04-2011
2	Dr D Kalita	Scientist	Srilanka	As an expert for the training programme entitled "Extraction of fibres & development of value added products based on banana fibre" under South to South Cooperation Programme of the UNDP	10-03-2011	25-04-2011
3	Dr Swapnali Hazarika	Scientist	Prague, Czech Republic	For research work on the ongoing collaborative project entitled "Preparation and Application of Immobilized Esterases (Enzymes) for Industry and Biosensors" under CSIR – ASCR programme of S&T partnership	01-08-2011	15-08-2011
4	Dr Swapnali Hazarika	Scientist	Sitges, Spain	To attend and present a paper (Oral) at the "1 st International Conference on Ionic Liquid in Separation and Purification Technology".	04-09-2011	07-09-2011
5	Dr SP Saikia	Scientist	Milan, Italy	under CNR, Italy - CSIR, India Bilateral S&T Programme for the year 2009 -2011.	08-10-2011	28-10-2011
6	Mr T Hussain Ahmed	Technical Assistant	Norwich, UK	undertake work under collaborative project between India -EU entitled "NAMASTE"	01-11-2011	15-01-2012
7	Dr Aradhana Goswami	Senior Principal Scientist	Bologna, Italy and Norwich, UK	undertake work under collaborative project between India -EU entitled "NAMASTE"	01-11-2011	20-12-2011
8	Dr BG Unni	Chief Scientist	Chiang Mai, Thailand	to take part in the brainstorming session arranged by ARDA, Thailand and also to attend "International Sericultural Congress"	13-12-2011	18-12-2011
9	Dr HP Deka Barua	Sr Scientist	Chiang Mai, Thailand	to take part in the brainstorming session arranged by ARDA, Thailand	16-12-2011	18-12-2011
10	Dr Mantu Bhuyan	Scientist	Dhaka, Bangladesh	for participation at "17 th Diabetic & Endocrine Conference"	13-12-2011	15-12-2011
11	Dr HP Deka Boruah	Sr. Scientist	London, UK	To attend International Conference entitled 'Planet Under Pressure 2012'	25-03-2012	29-03-2012

TRAINING ATTENDED

S.No.	Title of Programme	Organizers details & duration	Participating staff
1	Magnetotelluric Techniques: Theory and Applications	North East Hills University (NEHU) Shillong during 08-12 August, 2011	Dr PK Bora, Senior Principal Scientist
2	Maintenance of cancer cell line, bioassay techniques, gene and protein characterization	Department of Zoology, Visva Bharati (A Central University), Santiniketan from 15-29 June & 15-29 September, 2011	Dr M Bhuyan, Scientist,
3	Online training course on Basics of Rheology	Anton Paar GmbH, Anton-Paar-Str. 20 8054 Graz, Austria Passed the course on April 18, 2011	Mr Arvind Gautam, Junior Scientist
4	Patinformatics for Research and Business Planning	CSIR-NCL, Pune during 19-21 March, 2012, organized by The Society for Information Science (SIS) in collaboration with CSIR-URDIP, Pune.	Dr PJ saikia, Junior Scientist.
5	Patent landscaping/Mapping and White space identification.	CSIR-NCL, Pune on 22 March, 2012.	Dr PJ saikia, Junior Scientist.
6	Workshop on Processing Iron ore Fines and Slimes	Tata Research Development and Design Centre Pune, and IIME, Mumbai-Pune Chapter during 23-25 January, 2012	Dr Manash R Das, Junior Scientist
7	Crafting and Managing R&D projects	CSIR-HRDC, Ghaziabad, during 19-23 September, 2011.	Ms kalyani Medhi, Junior Scientist
8	Crafting and managing R&D Projects	CSIR-HRDC, Ghaziabad during 19-23 September, 2011	Mr Debabrata Das, Junior Scientist
9	Food Safety in Supply Chain for North Eastern India	The confederation of Indian Industry – Institute of Quality and Ministry of Food Processing Industries, Govt. of India, from 5-6 May, 2011 at Jorhat, Assam	Mrs Lakhimi Borah Principal Technical Officer
10	Maintenance and application training on GC-GCMS	Thermo Scientific GC, GC-MS Service Seminar, Guwahati, during 7-9 December, 2011	Mr PP Khound, Technical Assistant
11	Magnetotelluric Techniques: Theory and Applications	North East Hills University (NEHU), Shillong during 8-12 August, 2011	Ms S Goswami, DST Woman Scientist

ADVANCE ACADEMIC TRAINING IMPARTED

CSIR-NEIST organized International Training Programme



(Top) Dr R C Boruah (left), Outstanding Scientist, delivering talk to the trainees during technical session. (Middle) Dr P G Rao, Director, CSIR-NEIST, distributing certificates to the trainees as Mr Patinya Luangthongkum (extreme left), Deputy Director, ARDA, looks on at the certificate distribution ceremony. (Bottom) The trainees with the CSIR-NEIST fraternity.

CSIR-NEIST in collaboration with the Agricultural Research Development Agency (ARDA), Thailand jointly organized an intensive international training programme on “Project assessment programme on Research to Marketable Product and Bioinformatics” during 5–15 July, 2011 at CSIR-NEIST. A total of 4 officials from ARDA-Thailand, 2 research fellows from Nigeria under CSIR-TWAS fellowship at CSIR-NEIST and one research scholar from Egypt working at CSIR-NEIST participated in the training programme. The resource persons for the training included personnel from CSIR-NEIST and Assam Agricultural University, Jorhat namely, Dr A Garg, Chief Scientist and Dr AS Naidu, Chief Scientist (Retd.) from CSIR-CLRI, Chennai, Dr CN Saikia, Chief Scientist (Retd.), CSIR-NEIST and Dr Madhumita Baruah, Professor, Assam Agricultural University, besides other scientists from CSIR-NEIST. It may be mentioned here that the training programme was a follow-up initiative of the MoU signed between CSIR-NEIST, Jorhat and ARDA, Thailand on 23 June, 2011. Apart from undertaking joint research, the objectives of the MoU include exchange of research students, organizing joint seminars and technology development/transfer etc. The activities of the training included industrial visits to business establishments of CSIR-NEIST entrepreneurs, hands on training on bioinformatics, visit to different divisions of CSIR-NEIST, visit to laboratories in and around Jorhat like Tea Experimental Station (TRA), Assam Agricultural University and Rain Forest Research Institute etc. As a part of the programme, the participants were taken on visit a Thai village at Titabor in which they got the opportunity to exchange cultural practices with the local members of the community.

On 16 July, 2011 award certificate distribution function was held at MS Iyenger Hall, CSIR-NEIST which was attended by Mr Patinya Luangthongkum, Deputy Director, ARDA, Ms Siwaporn Darnwachira, Audit Officer, ARDA, Thailand CSIR-NEIST fraternity. Dr P G Rao, Director, CSIR-NEIST in his speech mentioned that Science is without boundaries, hence, the knowledge must translate and percolate for the benefit of humanity. As a part of the training programme, the participant trainees submitted a report of the training received and assessment about the programme. The trainees were awarded certificates on the completion of the training programme along with 'Training Notes'. Mr Patinya and Ms Siwaporn of ARDA, Thailand expressed gratitude to CSIR-NEIST for organizing the programme.

Short Term Bioinformatics Training as a part of NEIST-ARDA, Thailand Program

Short term bioinformatics training was organized as a part of NEIST-ARDA (Agriculture Research Development Agency, Thailand). The program was organized during 11-14 July, 2011. The main focus was on basic bioinformatics and its application in R&D in the field of Agriculture Sciences. Montira Kaeodee, Piyatida Thiraronarong, Pavidia Posayawatanakul and Praveena

In-Yim participated in the training as an ARDA trainee from Thailand. Ola Iyaba Olunika and Majolagbe Olusola Nathaniel from Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria participated the training. Mohamad Gad, CSIR-TWAS fellow, from Egypt also participated in the programme.

Workshop-cum-hands on training on Molecular Biology and Diversity Mapping

The workshop-cum-Hands on Training on Molecular Biology and Diversity Mapping of microorganisms was held during 15 to 24 November, 2011 under the banner of Biotechnology Division and Biotech Hub of NEIST, Jorhat. The program was sponsored by Department of Biotechnology, Govt of India & CSIR-NEIST, Jorhat. The training covered both wet-lab hand on and theory sessions covering the exciting Molecular Biology and Bioinformatics field. Some the topic highlighted in the training session was Next Generation Sequencing, iOmics, Cloud computing. All bioinformatics pipelines biologist utilize such tool in the internet using cloud computing, Statistical bioinformatics- discovering the biological information, Metagenomics data analysis, Polyphasic microbial taxonomy etc . Out of total 9 participants 7 were from Biotechnology division and 2 were from Plant Science Division. Dr. GNS Reddy, Scientist from CCMB, Hyderabad and Dr. A Talukdar, Chief Scientific Officer from Geschickten Bioscience, Bangalore, participated as resource persons. Dr. Reddy delivered eminent lectures on emerging field of Metagenomics and Polyphasic taxonomy. He also guided the practical sessions related to modern techniques of molecular Biology. The lectures series in



Dr P G Rao, delivering inaugural speech and Prof. Ashok Talukdar, Chief Scientific Officer from Geschickten Bioscience, Bangalore and Dr. GNS Reddy, Scientist from CCMB, Hyderabad, as resource persons on the dias.

the morning sessions were followed by practical sessions daily. Dr. Talukdar delivered 4 nos. of excellent lectures on the application of cloud computing, Next generation sequencing data analysis, Statistical bioinformatics etc. The training was concluded with closing ceremony where the participants expressed their positive feedback and finally declared as one the successful biotechnological training program of the NEIST, Jorhat.

Short Term Training on Bioinformatics Tools for Genomics Research



Opening Ceremony of the program Dr. TC Bora, HoD, Biotechnology Division addressing the participants.

The Short Term Training Course on Bioinformatics Tools for Genomics Research was organized in Bioinformatics Centre, Biotechnology Division, during 19-21 March, 2012 as a mandate of the Centre. Total 13 students from different Institutes of India participated in the Training program. These Educational & R&D Institute includes Tezpur University, Dibrugarh University, Jaipur National University and Asian Institute of Management and Technology, Guwahati. Dr. Madhumita Barua, Associate Professor, Biotechnology Division, Assam Agriculture University was invited as a Resource Person, Dr. Baruah delivered talk on 16SrDNA Bacterial gene and its application in the studies of bacterial diversity. Dr. Chitraranjan Baruah, Research Associate, Bioinformatics Center, Guwahati University, delivered talks on NCBI in details. Dr. Rajeev Sharmah, Assistant

Professor, Dibrugarh University delivered his speech on the Statistics and Mathematics in Bioinformatics. Prof. RC Deka, Professor, Chemical Sciences, Tezpur University explained in details on QSAR and Computer aided drug design. Mr. Dhrubajyoti Gogoi, Project Assistant, Bioinformatics Center, CSIR-NEIST delivered a talk on Docking and its impact on CADD (demo and theory) to the participants. The program was successfully concluded on 21 July, 2012.



Trainees at Bioinformatics Hub of Biotechnology Division, CSIR-NEIST, Jorhat

SEMINAR/MEETING ATTENDED

Dr P G Rao, Director, CSIR-NEIST,

- CSIR Chemical cluster meeting during 14-16 April, 2011.
- Attended RAB Assessment Committee meeting for Sc F-G on 21 April, 2011.
- Attended Planning Commission meeting on "Working Group on S&T for the vulnerable section of the Society" at Mahasagar Bhawan, Block No.12, CGO Complex on 18 May, 2011.
- Attended RAB Assessment Committee meeting (Chem. Sciences & Engg.) at CSIR-CGCRI, Kolkata, on 24 May, 2011.
- Attended and inaugurated State level seminar discussion on 'Lower Subansiri Big Dam: Its impact with special reference to Majuli island. Importance of Project works in current education system' held at Rongachahi College, Majuli on 26 May, 2011.
- Attended Network Project Review meeting at IICT, Hyderabad, on 30 May, 2011.
- Attended meeting called by Secretary, Min of Earth Sciences in connection with Integrated Seismic & GPS Network at INCOES, Hyderabad on 12 June, 2011.
- Attended meeting of the Committee for NER Node for Disaster Risk Reduction (NDR-DRR) at NESAC, Shillong on 16 June, 2011.
- Attended 2nd meeting of the NEIGRIHMS Ethics Committee (NEC), at NEIGRIHMS, Shillong on 1 July, 2011.
- Attended meeting of the Vice Chancellors, Directors of Institutes and Principals of Star Colleges with Secretary, DBT, GOI, on NER-Biotech Programme Management held at Dibrugarh University on 13 July, 2011.
- Attended meeting with Chief Minister, Manipur at NEIST Substation, Imphal on 22 July, 2011.
- Attended International Seminar on 'Chemistry in societal and environmental needs' organized by Madras Science Foundation during 29-31 August, 2011.
- Attended MC meeting of CSIR-CIMFR on 10 September, 2011.
- Inaugurated the Freshers' Day programme of Jorhat Institute of Science & Technology on 22 September, 2011.
- Inaugurated the Freshers' Social meeting of Jorhat Medical College on 27 September, 2011.
- Attended Workshop of Ministry of Earth Sciences and DPC meeting at CSIR Headquarters during 14-17 October, 2011.
- Attended the Sericulture training programme organized by CSIR-IICT and CSIR-NEIST held at CSIR-NEIST Substation during 20-21 October, 2011.
- Attended Inaugural function of SSBMT Outdoor Zonal held at CSIR-CRRI, New Delhi and DPC meeting at CSIR during 8-9 November, 2011.
- Attended Inaugural function of Workshop-cum-exhibition on Novel products based on Ethnic Materials and Design under RSP-10 programme held at Imphal, Manipur on 17 November, 2011.
- Attended Inaugural function of 43rd SSBMT (Outdoor) Zonal held at CSIR-NCL, Pune on 25 November, 2011.
- Attended INSA meeting held at New Delhi on 28 November, 2011.
- Attended Silver Jubilee & Technofest celebration of RVR & JC College of Engineering, Guntur, Andhra Pradesh as Chief Guest.
- Attended meeting on 'NAMASTE' project held at CSIR-NAL, Bangalore on 30 November, 2011.
- Attended MC meeting of CSIR-CFTRI, Mysore on 1 December, 2011.
- Attended meeting of the Council for Science & Technology for Rural India (CSTRI) held at IIT, Madras on 5 December, 2011.
- Attended 12th Five Year Plan Projects for Chemical Sciences Cluster Laboratories meeting held during 16-17 December, 2011 at NCL, Pune.
- Attended TAC-17 meeting of Technology Development & Utilization Programme for Women (TDUPW) held at Guwahati on 8 February, 2012.
- Attended meeting on INSPIRE programme of 12th Five Year Plan at IICT-Hyderabad on 10 February, 2012.
- Attended meeting with IChE Centre at Vizag, on 11 February, 2012.
- Attended 8th Foundation Day of Senior Engineers's Forum of Greater Guwahati as Guest of Honour and delivered the theme lecture on 21 February, 2012.

- Attended RC meeting of CSIR-CFTRI, Mysore on 28 February, 2012.
- Attended CSTR meeting at DST, New Delhi on 29 February, 2012.
- Attended 43rd SSBMT Outdoor (Final) held at CSIR-CEERI, Pilani on 24 March, 2012.
- Attended 5th PAC meeting on Geosciences Programme at CSIR-NGRI, Hyderabad on 29 March, 2012.
- Attended IUFOST National Committee and ICSU National Committee meetings held at New Delhi on 4 April, 2012.
- Attended council meeting of National academy of Sciences, India held at NIPGR, Aruna Asaf Ali Marg, New Delhi on 21 April, 2012.
- Attended CSIR Directors' Conference held at CSIR-IMTECH, Chandigarh during 26-28 April, 2012.

Dr R C Boruah, Outstanding Scientist

- Attended the Governing Body Meeting of Bahona College, Jorhat on 19 January, 2012.
- Attended the National Conference on Recent Trends in Chemistry (RTC-2012) held at Sikkim Manipal Institute Technology (SMIT), Majitar, Sikkim on 23 January, 2012 and delivered a key note lecture.
- Attended RAB meeting at HRDG, CSIR on 24 January, 2012.
- Attended the 18th International Conference (Post: ISCBC-2012) held at the Institute of Advanced Study in Science & Technology (IASST), Guwahati during 29-30 January, 2012.
- Attended the Review meeting of CSIR Biological Clusters on 11th Five Year Plan and future plan on 12th Five Year Plan held at CSIR-CDRI, Lucknow during 11-12 November, 2011.
- Attended Inaugural function of the 80th Annual meeting of Society of Biological Chemists held at CSIR-CIMAP on 12 November, 2011.
- Attended an interactive meeting with Dr A P J Abdul Kalam, former President of India, held at Tea Research Association, Tocklai on the occasion of World Tea Science Congress on 21 November, 2011.
- Attended the Inaugural Function of the World Tea Science Congress at the Tea Research Association, Tocklai on 22 November, 2011.

Dr BG Unni, Chief Scientist,

- Attended the meeting of Screening Committee as a member nominated by Director, CSIR-IICB, Kolkata on 12 July, 2011 for Gr IV (4) scientists.
- Attended a meeting with Dr Raja Banerjee, Head, Bioinformatics Department, West Bengal University of Technology, Kolkata at IICB Guest House on 13 July, 2011.
- Attended DNA club meeting as a Local Advisory Member at CSIR-NEIST Substation, Imphal on 22 July, 2011.
- Attended Biosafety Committee meeting at Tezpur University on 19 August, 2011 as DBT's nominee for the University.
- Attended zonal workshop on "Food safety and quality management in Tea" organized by Indian Institute of Plantation Management, Bangalore at Tea Research Association, Tocklai (Jorhat) on 20 August, 2011.
- Attended the XXIIInd Congress of the International Sericultural Commission held at Ball room, Centra Hotel, Chiang Mai-Thailand during 14-18 December, 2011 and delivered a lecture entitled, "Recent trend of biotechnological and molecular research in non-mulberry silkworm, *Antheraea assamensis*, helper".
- Attended an interactive meeting with Dr A P J Abdul Kalam, former President of India, held at Tea Research Association, Tocklai on the occasion of World Tea Science Congress on 21 November, 2011.
- Attended the freshman social of the Medical Institute, Jorhat as Guest of Honour on 29 December, 2011.
- Attended the "International Symposium on Sustainable Public Health Practices for Good Health, Peace and Prosperity" on 24 February, 2012 held at Dibrugarh University and delivered a lecture on "Occupational & Environmental Health: Screening and Awareness as Better Sustenance".
- Attended the interactive meeting with Former President of India Dr. Abdul Kalam during World tea Congress at TRA, Tocklai on 21 November 2011.
- Freshmen Social of the Medical Institute as Guest of Honour organized by Medical Institute Jorhat on 29 December, 2011

Mr PK Goswami, Chief Scientist

- Advance quality solutions for milling & baking industry meeting for Application of new Technology in Milling and Baking Industries organized by M/S Scientific and Digital 15 Nov 2011 at New Delhi System (SDS)

- Food quality, safety and Food Agriculture & Biotechnology related research under FP-7 programme for India-EU S&T collaboration on Food Agriculture & Biotechnology related research organized by Bio circle- JNU New Delhi at IIT Madras on 19th Aug 2011
- India- EU S&T collaboration by 2020 under NEW INDIGO programme for Preparation on vision documents on collaborative research by 20-20 under NEW INDIGO programme organized by CSIR, New Delhi at NIIST, Trivandrum
- CSIR- Nutraceuticals and Functional foods to combat malnutrition in women and children Organised by DGCSIR at CSIR Head Quater, New Delhi on 16th Feb 2012

Dr P Sengupta, Chief Scientist

- Working Group meeting of NEC under Science and Technology Sector for preparing proposals for 12th Five Year Plan Period for 12th Five Year Plan Period organized by North East Council, Shillong on 22 Dec 2011
- 17th Technology Summit and Technology Platform for Indo-Spanish cooperation in Biotechnology, Renewable energy and Water treatment for Joint Venture and Cooperation organized by FIICI and DST, Govt of India at New Delhi during 22 – 23 Nov 2011
- Attended as Chief Guest in Valedictory Function in Celebration of the International Year of Chemistry organized by Jorhat Institute of Science and Technology on 27 Aug 2011

Dr Dipak Kumar Dutta, Chief Scientist

- CSIR-NCL, Pune XII PYP Project Meeting, 14-16 April, 2011
- DST, New Delhi, PAC Meeting at Jadavpur University, Kolkata on 1 November, 2011.

Dr Paran Baruah, Senior Principal Scientist

- Attended the 21st Foundation Day celebration of Cinnamara College as Guest of Honour on 1 June, 2011.

Dr T C Bora, Senior Principal Scientist

- Attended the “17th Technology Summit and Technology Platform” held between the delegates of India and Spain as partner country organized by Confederation of Indian Industry (CII) & DST, New Delhi held at Hotel Lalit, Barakhamba Road, New Delhi during 22-23 November, 2011

Dr Saurabh Baruah, Senior Principal Scientist,

- Attended the Indo-Norwegian Workshop on Geohazards held at the India Habitat Center, Lodhi Road, New Delhi during 12-14 September, 2011 and presented papers entitled, “Moho depth variation in the Shillong-Mikir Hills Plateau in the North-Eastern region of India estimated from reflected and converted waves” and “The maximal credible earthquake in the Greater Guwahati city, North eastern India supplemented by mapping of amplification factors”.
- Attended INDO-US workshop on “Intraplate Seismicity” held at Institute of Seismological Research, Raisan, Gandhinagar, Gujarat during 15-18 January, 2012 and presented a paper entitled, 'A complex tectonic model of Shillong-Mikir Plateau, Northeastern India: Inferred through waveform inversion, multiple inverse method, stress tensor inversion with subsequent seismic anisotropy and receiver function analysis'.

Dr Amrit Goswami, Sr Principal Scientist

- Green Chemistry Initiatives meeting for Introduction of Green Chemistry in Highly Polluting Chemical Industries organized by Office of the Prime Minister's Scientific Adviser held at Indian Institute of Technology, Mumbai, 07 March, 2012

Dr SD Baruah, Senior principal Scientist

- Monitoring committee meeting of Department of Information Technology (DIT) -New Delhi as PRGS committee member organized by IASST-Guwahati on July 28, 2011
- 14th meeting of “bitumen tar and their products sectional committee, PCD 6” of BIS-New Delhi organized by BIS, New Delhi on August 12, 2011 at IIT-Madras.
- Monitoring committee meeting of Department of Electronics and Information Technology (DEIT)-New Delhi as PRGS committee member organized by DEIT-New Delhi and IASST-Guwahati held at DEIT-New Delhi on 23.3.2012

Dr B P Baruah, Principal Scientist,

- Attended the 77th Anniversary General Meeting of Indian National Science Academy held at Tezpur University, Tezpur on 28 December, 2011.
- General and Executive Governing body meetings of IIME as Council Member during 20-22nd October, 2011, Udaipur, India
- World Tea Science Congress' at Toklai during 22-24th November, 2011
- North East Energy Conclave: Leading opportunities conference during 16-17 December 2011 in Guwahati
- General and Executive Governing body meetings of IIME as Council member at MPT-2011 held at Udaipur
- 31st State Geological Programming Board Meeting organized by DGM Nagaland during 12/08/2011 at Dimapur
- 5th Meeting of CGPB committee: VIII Geological and Mineral Resources of NER organized by CGPB Held on 05/07/2011 in Shillong

Dr HB Singh, Principal Scientist & In-charge, Substation, Imphal, Manipur

- Carbon sequestration meeting organized by Manipur University sponsored by UGC during Manipur University on 24/2/2012
- Investor meet To find out the possible investment in Manipur organized by Indian Chamber of Commerce & DoNER, Gol at Hotel Classic, Imphal; 27/4/2011
- Patchouli plantation program for Launching of Patchouli plantation in Manipur in organized by Minister, Health & Family Welfare, Manipur at MACS, Imphal; 29/4/2011
- Patchouli oil distillation meeting for Strategies for establishment of units for Patchouli oil distillation organized by Minister, Health & Family Welfare, Manipur at Office of minister, Health & Family Welfare, Manipur; 18/4/2011
- Appointment of Senior Technical Assistant, Laboratory Assistant, SRF at Institute of Bioresources & Sustainable Development, Manipur on 28/6/2011
- Purchase Committee Meeting at Institute of Bioresources & Sustainable Development, Manipur on 11/8/2011
- As Chairman for screening for appointment of Administrative Officer & Purchase Officer at Institute of Bioresources & Sustainable Development, Manipur on 5/8/2011

Dr S P Saikia, Scientist

- Attended CSIR 800 Tech Workshop held at CSIR-CMMACS, Bangalore during 27-31 January, 2012.
- Attended an 'International Conference & Expo 2012 on Essential Oils in Changing Global Scenario' organized by Essential Oil Association of India at Khajuraho during 17-19 February, 2012.
- Attended a seminar on "Organic Production—A new vista" organized by Indian Chamber of Commerce at Hotel Nakshatra, Guwahati on 13 March, 2012.
- North East Best Manager's Competition organized by Guwahati Management Association held at Guwahati during 2 July, 2011.

Dr Mantu Bhuyan, Scientist

- Attended an 'International Conference & Expo 2012 on Essential Oils in Changing Global Scenario' organized by Essential Oil Association of India at Khajuraho during 17-19 February, 2012.

Dr B K Saikia, Scientist

- Attended and presented a paper at the National Symposium on Chemistry (NSC-12) held during 2-5 February, 2012 at CSIR-NIIST, Trivandrum, India.

Dr Dipul Kalita, Scientist

- Attended the Indian Pulp and Paper Technical Association (IPPTA) zonal seminar and presented a paper entitled, "Studies on paper grade pulp from certain wild plant species" in the Technical Session II held at Lucknow during 4-5 August, 2011.

Dr Swapnali Hazarika, Scientist

- Attended the 1st International Conference on 'Ionic Liquids in Separation and Purification Technology' organized by Separation and Purification Technology, Elsevier during 4-7 September, 2011 in Sitges, Spain. She also presented an oral presentation for the paper entitled, "Dissolution of Lignocellulose in Ionic Liquids and its Recovery by Nanofiltration Membrane" authored by Swapnali Hazarika, N N Dutta and P G Rao.

Mr Dipak Basumatari, Scientist

- Attended one-day interactive workshop on “Rain water harvesting” on 14 March, 2012 held at North East Regional Institute of Water and Land Management (NERIWALM), Dolabari, Tezpur.

Mr Chandan Tamuly, Scientist & Scientist-in-charge, Branch Laboratory, Itanagar

- Orientation programme on “Training to Trainers of Village Botanists” organized by Arunachal Pradesh State Medicinal Plant Board during NERIST, Nirjuli 11-13th May/2011
- Attended a one-day seminar on “Arunachal Pradesh Food Processing Investors Meet” organized by North Eastern Regional Agricultural Marketing Corporation (NERAMAC) at Banquet Hall, Itanagar on 22 June, 2011.
- Attended the 3rd “State Geological Programme Board” meeting as member of the board on 18 August, 2011 held at the office chamber of Secretary (G&M)-cum Chairman, SGPB, Itanagar, Arunachal Pradesh.
- Workshop on “Packaging of Processed fruits” for cottage, micro, small and medium Entrepreneurs” organized by Indian Institute of Packaging, Kolkata during 30th September 2011
- 4th North East Bioinformatics Network (NEBINet) Co-ordinator meeting , DBT, GoI, New Delhi organized by Bioinformatics Centre(DBT-BIF), Dept. of Forestry, NERIST, Nirjuli, A.P.-791110 during On 5th November, 2011 at New conference Hall, NERIST, Nirjuli.

Dr P J Saikia, Junior Scientist

- Attended a three-day conference at CSIR-NCL, Pune on “Patinformatics for Research and Business Planning” during 19-21 March, 2012 organized by the Society for Information Science (SIS) in collaboration with CSIR's Unit for Research and Development of Information Products (CSIR-URDIP), Pune.
- Attended workshop on “Patent landscaping/Mapping and White space identification” organized for the benefit of CSIR scientists at CSIR-URDIP, Pune on 22 March, 2012.
- Attended a three-day conference at CSIR-NCL, Pune on “Patinformatics for Research and Business Planning” during 19-21 March, 2012 organized by the Society for Information Science (SIS) in collaboration with CSIR's Unit for Research and Development of Information Products (CSIR-URDIP), Pune. Also, Attended workshop on 22 March, 2012 at CSIR-URDIP, Pune on “Patent landscaping/Mapping and White space identification” that was organized for the benefit of CSIR scientists.

Dr Lakshi Saikia, Jr Scientist

- As Judge for best poster competition in celebration of International Year of Chemistry organized by Jorhat Institute of Science and Technology on 27 Aug 2011.

Dr Jatin Kalita, Jr Scientist

- Attended National Seminar on “Biochemical and biotechnological Research Approaches for Bio-resource Management of North East India Towards Sustainable Rural Development” held during 11-12 November, 2011 at BN college of Agriculture, Sonitpur.

Ms kalyani Medhi, Jr Scientist

- Attended National Seminar on “Biochemical and biotechnological Research Approaches for Bio-resource Management of North East India Towards Sustainable Rural Development” held during 11-12 November, 2011 at BN college of Agriculture, Sonitpur.

Dr Dipanwita Banik, Jr Scientist

- Attended the “Workshop and Hands-on-training on Plant DNA Fingerprinting” held at Bose Institute, Kolkata during 16 – 30 August, 2011”.

Dr A K Bordoloi, Principal Technical Officer

- Attended the Valedictory function of Cluster Development Training Programme on “Mushroom cultivation” organized by North Eastern Small Scale Industries Association (NESSIA), Jorhat on 1 March, 2012 at District Freedom Fighter's Meeting hall, Jorhat as a Guest of Honour. In the programme, Dr Bordoloi briefed about Mushroom cultivation.

Vaskar Rajkhowa, EE

- One day interactive workshop on Rain water Harvesting organized by North Eastern Regional Institute of Water and Land Management, Dolabari, Tezpur during 13.04.2012

Mr Dipanka Dutta, Technical Assistant

- Attended the Indian Pulp and Paper Technical Association (IPPTA) Zonal seminar held at Lucknow during 4-5 August, 2011.

Dr R K Mrinalinee Devi, WOS-A

- Attended the Asia Oceania Geosciences Society 2011 (AOGS 2011), held at Taipei International Convention Centre (TICC), Taiwan during 8-12 August, 2011 and presented a paper entitled, "Tectonic forcing of the drainage-set up around the frontal western limb of the Eastern Syntaxial Bend, Arunachal Himalaya, with reference to stress analysis".

Ms Sumana Goswami, DST-Scientist

- Attended the 99th Indian Science Congress held at KIIT University, Bhubaneswar during 3-7 January, 2012 and delivered a lecture on, "State of Stress Under Pre and Post Seismic Scenario along the Rupture Area due to Great Mw 9.1 Sumatra-Andaman Earthquake of 2004 and its kinematic implications" under Earth System Sciences section. She also acted as Rapporteur for the session, 'Deformation and Tectonics'.

PAPER PRESENTED IN SEMINAR & CONFERENCES

Dr SD Baruah

- "Natural Polymers and their Modification" in AP-TEC 2012 - conference and exhibition focusing on Technologies for modern agriculture organized by Andhra Pradesh Technology development and Promotion Centre (APTDC) and confederation of Indian Industry (CII)-Hyderabad in collaboration with International Crop Research Institute for Semi-Arid Tropics (ICRISAT) during 3-4 March, 2012, at HICC- Hyderabad.

Mr Sanjay Deori

- "Indian Experiences on the use of Modified Binders in Flexible Pavement Construction" in Seminar on "Model Concepts for Improved Habitat in North-East" organized by Chief Engineer, Shillong Zone, Military Engineer Services, Shillong during 24 September, 2011 at NEC Secretariat, Shilling.

Dipanka Dutta and Dipak Kumar Dutta

- "In-situ generation of Cu⁰-nanoparticles on modified montmorillonite clay and their characterization" in Recent Trends in Nanoscience and Technology (RETNAT 2011) organized by Bahona College, Jorhat during 20-21 May, 2011 at Bahona College, Jorhat.

Dipul Kalita, Dipanka Dutta and Tridip Goswami

- " Studies on Paper Grade Pulp form Certain Wild Plant Species " in IPPTA Zonal seminar on "Raw (Recycled, Agro and Wood) Material-Handling/Plantation/Storage/Usage" (Abstract No 125) organized by Indian Pulp and Paper Technical Association during Vivanta Taj, Lucknow, Aug 4 – 5, 2011

Dipul kalita, Dipanka Dutta, Ratul Neog and Tridip Goswami

- " Utilization of agro waste materials for making different value added products " in National Seminar on Biochemical and Biotechnical Research of North East India towards Sustainable Rural Development". (Abstract page No 48) organized by BN College of Agriculture, Biswanath Chariali, Sonitpur during BN College of Agriculture, Biswanath Chariali, Sonitpur Nov, 11-12, 2011

Dipanka Dutta, Pallav Saikia, Dipul Kalita and Tridip Goswami

- "Study on physic-chemical behaviour of fibres extracted from banana plant available in North East India " in 99th Indian science Congress, 2012, organized by KIIT University, Bhubaneswar, Indian Science Congress during 3-7 January, 2012

Pallav Saikia, Dipul Kalita, Dipanka Dutta, JJ Bora and Tridip Goswami

- " Effect of chemical treatment of coir fibre on quality of coir-polyethylene waste composite board " in 99th Indian science Congress, 2012, organized by KIIT University, Bhubaneswar, Indian Science Congress during 3-7 January, 2012

Himadri Das, P K Das, Dipanka Dutta, Dipul Kalita and Tridip Goswami

- " Modification of properties of coir fibre by chemical treatments for making composite material " in 57th Technical Session of Assam Science Society, organized by Gauhati University, Guwahati, Assam Science Society during 16 March, 2012

Pallav Saikia, Puspa Kumari Das, Dipanka Dutta, Dipul Kalita, J. J. Bora, T. Goswami

- " Studies on the effect of chemical treatment on properties of bamboo (Bambusa tulda Roxb.)" in 57th Technical Session of Assam Science Society, organized by Gauhati University, Guwahati, Assam Science Society during 16 March, 2012

B. J. Borah and D. K. Dutta

- " Generation of nanopores and in-situ stabilization of Pdo-nanoparticles in modified Montmorillonite: An efficient heterogeneous catalysts for Heck and Sonogashira coupling reaction " in National Workshop on Recent Trends in Nanoscience and Technology (RET NAT 2011) organized by Chemistry and Physics Department, Bahona College, Jorhat during 20-21 May 2011

D. Dutta and D. K. Dutta

- " Supported Ru^o-nanoparticles: an efficient catalytic for reduction of carbonyl group to alcohol " in National Workshop on Recent Trends in Nanoscience and Technology (RET NAT 2011) organized by Chemistry and Physics Department, Bahona College, Jorhat during 20-21 May 2011

B. Deb, K. Saikia and D. K. Dutta,

- " Rhodium(I) carbonyl complexes of chalcogen functionalized phosphine donor ligands: Implication in catalytic carbonylation of methanol " in 3rd Asian Conference on Coordination Chemistry organized by IIT, Kanpur at Indian Habitat Centre, New Delhi during 17-20, October 2011

B. J. Sharma and D. K. Dutta

- " Rhodium carbonyl complexes of α -amino acid ester ligands: Synthesis Characterization and reactivity towards alkyl halide." in National Conference on Chemistry organized by Department of Chemical Sciences, Tezpur University during Tezpur University 11-12 November 2011

P. P. Sarmah and D. K. Dutta

- " Ru^o-nanoparticles stabilized on Montmorillonite clay: An efficient transfer hydrogenation catalyst." in 4-Bangalore Nano, Bangalore organized by JNCSR, Bangalore during JNCSR, Bangalore 8-9 December 2011

B. J. Borah, P. P. Sarmah and D. K. Dutta

- " Generation and in situ stabilization of Pdo-nanoparticles into modified Montmorillonite: An efficient catalyst for Suzuki-Miyura cross coupling reaction" in 2nd International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2011) organized by IIT Guwahati during IIT Guwahati December 8-10, 2011

P. P. Sarmah and D. K. Dutta

- " Ru^o-nanoparticles Supported into Modified Montmorillonite Clay and its Catalytic Transfer Hydrogenation Reaction " in 15th National Workshop on The Role of Materials in Catalysis organized by IIT Madras during IIT Madras, 11-13 December 2011.

K. Saikia and D. K. Dutta

- " Palladium complexes of P,P and P,S type bidentate ligands: Synthesis, characterization and Catalytic activity towards Suzuki-Miyaura cross-coupling reaction" in 18th International Conference (Post ISCBC-2012) Perspective and challenges in chemical and biological sciences: Innovation crossroads organized by IASST, Guwahati during IASST, Guwahati, 28-30 January 2012

M. Mishra, C. R. Bhattacharjee and R. L. Goswamee

- " Flow Behaviour Study of Montmorillonite-LDH Heterocoagulates at varied LDH compositions." in National Seminar on Recent Developments in natural Sciences organized by Department Physics and Chemistry D K D College Dergaon during D K D College Dergaon 20-21 January 2012

M. Mishra, C. R. Bhattacharjee & R. L. Goswamee

- " Study of Silica supported Mg-Al LDH prepared by sol-gel route " in 18th International Conference (Post ISCBC-2012) Perspective and challenges in chemical and biological sciences: Innovation crossroads organized by IASST, Guwahati during IASST, Guwahati 28-30 January 2012

S. Ch. Borah, M. R. Das and P. Sengupta

- "SEM-EDX Characterization of Some Graphite deposits of Arunachal Pradesh" in XII International Conference on Mineral Processing Technology, MPT 2011 organized at Udaipur during 20-22 Oct 2011

S. Ch. Borah, R. Sarma, M. R. Das, R. Saikia and P. Sengupta

- " Metal-graphene oxide composites materials and its role in antimicrobial activity" in 18th International Conference (Post ISCBC-2012) Perspective and challenges in chemical and biological sciences: Innovation crossroads organized by IASST, Guwahati during IASST, Guwahati 28-30 January 2012

L. Saikia, N. P. Das and D. K. Dutta

- " Synthesis, characterization and antimicrobial activity of metal schiff base complexes " in National Conference on Chemistry, Chemical Technology and Society (NCCCTS-11) organized by Department of Chemical Sciences, Tezpur University, Tezpur during Tezpur University, 10-12 November 2011

S. Rajkhowa, M. Bora and S. Mahiuddin

- " pH variation of alumina- and hematite-buffer suspensions: Specific ion effects on pH" in 6th National Conference on Thermodynamics of Chemical and Biological Sciences (NCTCBS-2011 organized by Department of Chemistry, Maharshi Dayanand University, Rohtak during Maharshi Dayanand University, Rohtak 2-4 November 2011

J. M. Borah and S. Mahiuddin

- " Adsorption of surface-active agent at the oxide-water interface: Influence of ions" in 6th National Conference on Thermodynamics of Chemical and Biological Sciences (NCTCBS-2011) organized by Department of Chemistry, Maharshi Dayanand University, Rohtak during Maharshi Dayanand University, Rohtak 2-4 November 2011

C. Tamuly, M. Hazarika, S. Ch. Borah and M. R. Das

- " Synthesis of Ag and Au nanoparticles using Piper Pedicellatum C.DC.: A green Chemistry Approach " in National Symposium on Recent Trend in Chemical Science and Technology organized by Department of Chemistry, IIT Patna during IIT Patna 3-4 March 2012

S. Ch. Borah and M. R. Das

- " Microwave Assisted Green Synthesis of Metal Nanoparticles on Graphene Nanosheets " in National Seminar on Recent Aspects of Chemistry Education and Research organized by Department of Chemical Science, Gauhati University during Gauhati University 24-25 February 2012

S. Ch. Borah, P. Sharma, M. R. Das and P. Sengupta

- " Solution Chemistry Approach for Synthesis of Ag and Au Nanoparticles onto the Graphene Oxide Sheets " in International Conference and workshop on nanostructured ceramics and other nanomaterials (ICWNCN) organized by Department of Physics and Astrophysics, University of Delhi during University of Delhi, 13-16 March 2012

Dr Amrit Goswami

- "Regioselective ring opening of epoxides by nucleophiles sans solvent in presence of silica supported potassium hydrogen sulphate" in Forty eighth annual convention of chemists 2011 and celebration of the International Year of Chemistry organized by Indian Chemical Society, Deptt of Science & Technology, New Delhi and Department of Chemistry, Allahabad University during Allahabad University, Dec. 03-07, 2011
- "Strategic use of biocatalysts in chiral synthesis of value added products " in 18th International conference (Post:ISCBC-2012), Perspective and challenges in chemical and biological sciences, Innovation cross roads, organized by Society of Chemists & Biologists and Institute of Advanced Studies in Science and Technology, Guwahati during IASST, Guwahati

Das, N; Bhuyan, M; Choudhury, R; Bhattacharyya, PR

- "Butterfly Diversity of Sakchi Kho Watershed- An approach to assess the watershed diversity" in Young Ecologists Talk & Interact organized by IIT, Guwahati during 15-16 December, 2011.

Duarah AJ; Rakshit, K; Bhuyan, M; Bhattacharyya, PR

- "Tea ecosystem and incidence of Tea mosquito bug, *Helopeltis theivora*: A study in inorganic and organic tea plantations." In Young Ecologists Talk & Interact organized by IIT, Guwahati during 15-16 December, 2011.

M.P. Borthakur, D. Sharma , J. Hazarika, & S.C. Nath

- " Crop diversification for Tea Plantation: In vitro approach for mass multiplication of elite cultivar" in World Tea Science Congress organized by Tocklai Experimental Station , TRA Jorhat -8.Assam during 22nd -24th Nov, 2011.

Dr. A.K. Bordoloi

- " Mushrooms a potential bio-resource of NE India and their cultivation for sustainable rural development " in National Seminar organized by B N College of Agriculture, at Biswanath Chariali during 11th-12th November, 2011
- " Wild sources of edible Mushrooms from Khasi and Jaintia hills of Meghalaya " in National Seminar organized by DKD College, Dergaon during 6th & 7th December, 2011.

Jayanta Jyoti Bora, Prinicpal Scientist

- " MSWM and technology options for dealing in small urban areas like Jorhat " in UGC sponsored National Workshop on "Solid Waste : Problems and Management" organized by Principal, Devicharan Barua Girls' College during 27th to 28th March, 2012

Dr B P Baruah

- "Sulfur Cycle in NER Coals " in International conference on Mineral Processing Technology (MPT-2011), organized by Hidustan Zinc Limited, Indian Institute of Mineral Engineers during 20-22nd October, 2011, Udaipur, India
- "Coal based industries in NER India: study of emission characteristics" and "Studies on ignition temperature of NER Coals: A Thermogravimetric Approach" in International conference on perspective and challenges in chemical and biological sciences organized by IASST & ISCB during 28-30th January, 2012 at Guwahati, Assam.

Dr Puja Khare

- " Polyaromatic Hydrocarbons (PAHs) in Perhydrouse Indian Coals." " in International conference on Mineral Processing Technology (MPT-2011), organized by Hidustan Zinc Limited, Indian Institute of Mineral Engineers during 20-22nd October, 2011, Udaipur, India

Dr B K Saikia

- "Micro-analysis of some inorganic constituent in Assam coals by CCSEM technique" in National symposium on chemistry (NSC-12) organized by CSIR-NIIST during 2-5th February 2012 held in CSIR-NIIST, Trivandrum, India.

Chandan Tamuly

- " Chemical Composition, Mineral content & Antioxidant activities of *Zanthoxylum oxyphyllum* Edgew from North east India " in National conference on "Chemistry, Chemical Technology and Society" organized by Dept. of Chemical Sciences, Tezpur University during 11-12 Nov/2011

Moushumi Hazarika

- "Evaluation of antioxidant activities and mineral content of *Piper wallichii* (Miq.) Hand-Mazz" in National conference on "Chemistry, Chemical Technology and Society" organized by Dept. of Chemical Sciences, Tezpur University during 11-12 Nov/2011

M M Sarmah and D Prajapati

- "Synthesis of novel Pyrimidine Derivatives of Biological Significance Based on Cycloaddition Strategy" in National Conference on Frontiers in Chemical Sciences (NCFCS-2012) organized by NCFCS-2012 during Manipur University, Imphal during 20-21st March 2012.

Y Dommaraju and D Prajapati

- "An efficient one pot four component synthesis of novel Pyranonaphthoquinone" in 14th national symposium in chemistry (NSC-14, CRSI) organized by NIIST and IISER, Trivandrum during NIIST, Trivandrum during 2-5th February 2012

M M Sarma and D Prajapati

- "An efficient and green synthesis of Pyrano[3,2-c]coumarin derivatives in aqueous media" in 18th International conference (POST – ISCBC 2012) organized by Indian Society of Chemists & Biologists, Lucknow during IASST, Gauhati. during 28-30th January, 2012

N Rajesh and D Prajapati

- "A new route to conjugated Ketimines via an indium catalysed tandem hydroamination/ hydroalkylation of terminal alkynes" in 18th International conference (POST – ISCBC 2012) organized by Indian Society of Chemists & Biologists, Lucknow during IASST, Gauhati. during 28-30th January, 2012

M M Sarma and D Prajapati

- "Efficient synthesis of pyrido[2,3-d]pyrimidine derivatives via microwave assisted multicomponent reaction strategy" in National Conference in Chemistry, Chemical Technology and Society organized by Tezpur University during 11-12th November, 2011

Y Dommaraju and D Prajapati

- "Synthesis of Pyrido[2,3-d]pyrimidine derivatives in PEG at room temperature via Mannich type reaction followed by cyclization" in National Conference in Chemistry, Chemical Technology and Society organized by Tezpur University during 11-12th November, 2011

M Dutta and R C Boruah

- "Ultrasound mediated one-pot synthesis of steroidal dihydropyrimidines" in 18th International Conference ISCBC-2012 organized by Indian Society of Chemists & Biologists, Lucknow at IASST Guwahati, during 28-30 January, 2012

J Goswami, P Bezbaruah, R C Boruah

- "A facile synthesis of biologically potential D-ring fused heterosteroids" in 18th International Conference ISCBC-2012 organized by Indian Society of Chemists & Biologists, Lucknow at IASST Guwahati, during 28-30 January, 2012

S Gogoi, R C Boruah

- "Microwave assisted solvent-free synthesis of 3-alkyl-tetrazolo[1,5-a]pyridines" in 18th International Conference ISCBC-2012 organized by Indian Society of Chemists & Biologists, Lucknow at IASST Guwahati, during 28-30 January, 2012

K Shekarrao, R C Boruah

- "Facile synthesis of pyranosteroids via D-ring cleavage" in 17th International Conference ISCBC-2012 organized by Indian Society of Chemists & Biologists, Lucknow at Solapur University, Maharashtra during 21-24 January, 2012

J Gogoi, R C Boruah

- "A convenient synthesis of a novel class of A/B-ring fused steroidal tetrazoles" in 17th International Conference ISCBC-2012 organized by Indian Society of Chemists & Biologists, Lucknow at Solapur University, Maharashtra during 21-24 January, 2012

P Saikia, R C Boruah

- "A novel approach for the synthesis of some A-ring annelated steroidal triazole derivatives" in 17th International Conference ISCBC-2012 organized by Indian Society of Chemists & Biologists, Lucknow at Solapur University, Maharashtra during 21-24 January, 2012

Mr. Swarup Majumder and Dr. Pulak J. Bhuyan

- "A highly efficient and green method for the synthesis of pyrimido[4,5-b]indole derivatives via three-component one-pot reaction" in 17th International Conference on Expanding Horizons in Chemical and Biological Science: Innovations Crossroads ISCBC-2012 organized by Indian Society of Chemists & Biologists, Lucknow at Solapur University, Maharashtra during 21-24 January, 2012

Miss Pallabi Borah and Dr. Pulak J. Bhuyan

- "Synthesis of novel annelated Coumarins from 4-Hydroxy coumarin via Intramolecular 1,3-dipolar cycloaddition reactions" in National Conference On "Chemistry, Chemical Technology and Society" organized by Tezpur University, Tezpur during November 11 & 12, 2011

Mr. P. Seetham Naidu and Dr. Pulak J. Bhuyan

- "Microwave-assisted solvent free reaction: Total synthesis of 2,2-di(6'-bromo-3'-indolyl)ethylamine" in National Conference On "Chemistry, Chemical Technology and Society" organized by Tezpur University, Tezpur during November 11 & 12, 2011

L. Borah

- "Estimation of some steroids by a direct titration method" in 57th Annual Technical Session, Assam Science Society organized by Assam Science Society held at Gauhati University; March 16th, 2011

K. Radhapyari, A.K. Hazarika and R. Khan

- "Amperometric Biosensor based on conducting polyaniline film modified horseradish peroxidase for detection of anticancer drug tamoxifen" in Frontiers in polymer science organized by UGC-SAP(DRSII) held at DAV college Jalandhar, Punjab during 2-3 March 2012

K. Radhapyari and R. Khan

- "Amperometric Biosensor for Environmental Toxin Aflatoxin B1 based on Polyaniline Probe Modified with IgG Antibody" in Applications in Energy & Environment organized by DST, Govt. of India held at Dept. of Chemistry, H.P. University, Nov 18-19, 2011

A. Gogoi and R.K. Boruah

- "An analysis of demineralized Tirap coal using x-ray Radial distribution Functions of atoms" in National conference on condensed matter Physics organized by UGC- Gauhati University held at Gauhati University, 02-03 March, 2012

D Kharghuria Kalita and R.K. Boruah

- "Petrographic study of Assam coal: An x-ray scattering Analysis" in 99th Indian Science Congress, 2012 Environmental Sciences organized by KIIT, Bhubaneswar during 3-7 January, 2012

K Radhapyari

- "Women Scientist in India: Challenges and its Strategy" in National workshop on "Women in Scientific Research – Examining the Challenges and Identifying their Needs" organized by Gauhati University, Guwahati, Assam; DST, NEW DELHI and Nagaland University, Nagaland held at Gauhati University, 24-26 August, 2011

PJ Saikia and S D Baruah.

- "Iron mediated reverse ATRP of n-docosyl acrylate" in 99th Indian Science Congress, 2012 organized by Kalinga Institute of Industrial Technology (KIIT) University, Bhubaneswar, India, during January 3-7, 2012.

P.J. Saikia and S. D. Baruah

- "Mechanistic aspect of Fe(III)/2,2'-bipyridine catalyzed ATRP and reverse ATRP of n-alkyl (meth)acrylates" in National Conference on Advances in "Polymer Science & Nanotechnology: Design and Structure" organized by Maharaja Sayajirao University of Baroda, Vadodara held at Maharaja Sayajirao University of Baroda, Vadodara, during December 16-17, 2011.

Dr. Saurabh Barua

- "A complex tectonic model of Shillong-Mikir Plateau, Northeastern India: Inferred through waveform inversion, multiple inverse method, stress tensor inversion with subsequent seismic anisotropy and receiver function analysis" in INDO-US Workshop on "Intraplate Seismicity"

- organized by Indo-US Science and Technology forum(IUSSTF), New Delhi and Department of Science and Technology, Govt. of Gujrat, Institute of Seismological Research, Gandhinagar during 15-18 January, 2012
- "Moho depth variation in the Shillong-Mikir Hills Plateau in the North-Eastern region of India estimated from reflected and converted waves" and (ii) The maximal credible earthquake in the Greater Guwahati city, Northeastern India supplemented by mapping of amplification factors in Indo-Norwegian Workshop on Geohazards organized at India Habitat Center, Lodhi Road, New Delhi during 12-14 September, 2011
- "Earthquake and forecasting : A model development " in Indo-Icelandic Workshop on Earthquake Prediction organized by Wadia Institute of Himalayan Geology, Dehradun during 21-22 October, 2011

Ms Sumana Goswami

- "State of stress under pre and post seismic scenario along the rupture area due to Great Mw 9.1 Sumatra-Andaman earthquake of 2004 and its kinematic implications" in International Conference on Indian Monsoon and Himalayan Geodynamics organized by Wadia Institute of Himalayan Geology, Dehradun and 99th Indian Science Congress held at KIIT University, Bhubaneswar during 2-5 Nov 2011 and 3-7 Jan 2012

Sangeeta Sharma

- "Study of Stream Anomaly Through Stream Length Gradient Index of some streams flowing through the Belt of Schuppen, NE India" in National Seminar on Multidisciplinary approach in sedimentary basin studies organized by Dibrugarh University sponsored by UGC & CSIR during 15-16 March 2012 at Dibrugarh University

Dr. R. K. Mrinalinee Devi

- " Morphotectonic and Paleoseismicity around the Kundil river section in the sadiya-Chappakhawa region of the frontal alluvial region of eastern Syntaxial Bend, India " in National Seminar on Multidisciplinary approach in sedimentary basin studies organized by Dibrugarh University sponsored by UGC & CSIR during 15-16 March 2012 at Dibrugarh University

Dr N C Barua

- "Herbal drug Development from North East resources" in 18th International Conference (Post: ISCBC-2012) organized by CIMAP and IASST held at IASST, Guwahati during 28-30 January, 2012

Dr A M Das

- "Biodegradable Protein Fibre Composites: Modification Through Graft Copolymerization" in 18th International Conference (Post: ISCBC-2012) organized by CIMAP and IASST held at IASST, Guwahati during 28-30 January, 2012

Bishwajit Saikia, Nabin C Barua

- "Synthesis of a novel series of artemisinin dimmers with potent anticancer activity involving click chemistry" in National conference on chemistry, chemical technology and society organized by and held at Tezpur University during 11-12 November, 2011

Thongam Joymati Devi, Nabin C Barua

- "Stereoselective synthesis of phytosphingosines and chain-modified derivatives using sharpless asymmetric epoxidation" in National conference on chemistry, chemical technology and society organized by and held at Tezpur University during 11-12 November, 2011

Bishwajit Saikia, Nabin C Barua

- "Total synthesis of a trihydroxyacid oxylipin and determination of its absolute configuration" in 17th ISCB International Conference (ISCBC-2012) organized by and held at Solapur University, Solapur during 21-24 January, 2012

Bishwajit Saikia, Nabin C Barua

- "Synthesis of artemisinin derived carba monomers and dimers using a newly derived C-13 artemisinin azide" in 14th National Symposium in Chemistry (NSC-14) & 6th CRSI-RSC Symposium in Chemistry organized by CSIR-NIIST & IISER-TVM, Thiruvananthapuram and held at Thiruvananthapuram, Kerala during 2-5 February, 2012

Vaskar Rajkhowa

- "Rural development, Human needs and Happiness index –an indicator" in Rural Development in the North Eastern Region organized by UGC sponsored national level seminar organized by Gandhian Studies Centre, Gargaon College, Gargaon, Sibsagar, Assam in academic collaboration with Centre for Rural Development studies, Dibrugarh University during 31.03.2012 Gargaon College, Gargaon, Sibsagar, Assam

A. Begum, A. Goswami, P. K. Goswami and PK Chowdhury

- "An Efficient Method for the Extraction of Polyphenolics from Some Traditional Varieties of Rice of North-East India" in International Conference on Chemistry of Phytopotentials: Health, Energy and Environmental perspectives (CPHEE, 2011) organized by and held at Dayalbagh Educational Institute, Dayalbagh, Agra during 4-6 November, 2011

A Goswami, PK Goswami, P K Chowdhury, D Senappa, DP Kumar and S Venkatesh

- "Integrated protocols for the Sustainable Recovery of Natural Ingredients for New Food and Feed having High Nutritional Properties from Food Processing By-Products " in 7th Nutra India Summit held at Hotel Lalit Ashok, Bangalore during 15-17 March, 2012

Dr (Ms) Aradhana Goswami

- "Integrated protocols for the sustainable recovery of natural ingredients for new food and feed having high nutritional properties from food processing by products" in 7th Nutra India Summit held at Hotel Lalit Ashok, Bangalore during 15-17 March, 2012

Ashma Begum

- "An efficient method for the extraction of polyphenolics from some traditional varieties of Rice of North-East India" in International conference on phytopotentials: Health, Energy and Environmental perspectives held at DEI, Agra during 4-6 November, 2011.
- "Estimation of mineral content in bran from five different traditional varieties of rice of North-East India" in National seminar on Role of bioactive compounds in foods on human health (BIOFOOD 2011) held at Tezpur University during 14-16 November, 2001.

Pinky Moni Bhuyan

- "Extraction and estimation of protein from rice bran of North Eastern region of India" in National seminar on Role of bioactive compounds in foods on human health (BIOFOOD 2011) held at Tezpur University during 14-16 November, 2001.

Montu moni Bora

- "Stabilized rice bran as a potential source of functional food" in National seminar on Role of bioactive compounds in foods on human health (BIOFOOD 2011) held at Tezpur University during 14-16 November, 2001.

Reshita Baruah

- "Potential of Pseudomonads in improvement of growth and disease control on rice through integrated biotechnological means" in International seminar on Bioresources and Human sustenance held at Cotton College, Guwahati during 20-22 October, 2011.

Maina Borah

- "Importance of soil carbon in assessment of biodiversity" in International seminar on Bioresources and Human sustenance held at Cotton College, Guwahati during 20-22 October, 2011.

Majolagbe Olusola

- "Immuno-Modulatory activities of metabolites produced from *Lentinus subnudus* in control of the virulent effects of pathogenic bacterial induced Albino rats" in International seminar on Bioresources and Human sustenance held at Cotton College, Guwahati during 20-22 October, 2011.

U Kalita and S D Baruah

- "Well defined poly(glycidyl methacrylate) via Fe(III)-mediated ARGET ATRP" in 99th session of Indian Science Congress, 2012, organized by KIIT University, Bhubaneswar during 3-7 January, 2012.
- "Thermal analysis of cellulose microfibrils modified with poly(ϵ -caprolactone)" in Eighteenth International symposium & workshop on thermal analysis (Thermans 2012) organized by Bhabha Atomic Research Centre, Trombay, Mumbai during 3-4 February, 2012.

TALKS & LECTURES DELIVERED

Dr P G Rao, Director, CSIR-NEIST

- On the occasion of Silver Jubilee & Technofest celebration of RVR & JC College of Engineering, Guntur as Chief Guest on 29 November, 2011.
- At Tripura Science Congress organized by Tripura S&T and Environment Council on 8 September, 2011.
- Theme lecture on 8th Foundation Day of Senior Engineers' Forum of Greater Guwahati, as Guest of Honour on 21 February, 2012.

Dr R C Boruah, Outstanding Scientist

- As guest of honour delivered talk "ideas to action: let us grow with innovation" on 24 May, 2011 at the inaugural session of the Exhibition-cum-Technology demonstration workshop for entrepreneurs organized by CSIR-NEIST
- NRDC sponsored National Conference on Socio-economic Empowerment of North East Region through Innovations held during 26-27 May, 2011 at Guwahati.
- "Opportunities of research and New Drug Development" on 18 and 19 July, 2011 in the DST-INSPIRE Programme' held at Dibrugarh University for 10+2 students.
- Inaugural talk entitled "Chemistry and its development" at the International Year of Chemistry organized at Jorhat Institute of Science & Technology (JIST) on 26 August, 2011.
- "Phytochemical benefits and techniques for detection of bioactive compounds in food" in National Seminar BIOFOODS-2011, organized by Food Engineering and Technology, School of Engineering, Tezpur University, Assam during 14-16 November, 2011. Dr Boruah also chaired the Technical Session-II of the Seminar.
- Key Note Lecture on Green chemistry at National Conference on Recent Trends in Chemistry (RTC-2012) organized by Sikkim Manipal Institute Technology (SMIT), Majitar, Sikkim on 23.01.2012
- Plenary lecture at the 18th International Conference 2012 (Post ISCBC) at the Institute of Advanced Study in Science & Technology (IASST), Guwahati on 30 January, 2012.
- Lecture "Novel strategies for heterocyclic annulation of steroids" at the International Symposium on Advances in Chemical Sciences-2012 held at Indian Institute of Technology (IIT), Guwahati on 30 January, 2012.
- "Recent aspects of chemistry education and research" at the National Seminar organized at Phanidhar Hall, Gauhati University on 24 February, 2012.
- Plenary Lecture "Some efforts towards molecular modification of steroids using novel chemistry" at UGC-DST sponsored National Seminar on Emerging Trends in Chemical Sciences held at Department of Chemistry, Guwahati University, Guwahati during March 30-31, 2012.

Dr N C Barua, Chief Scientist

- "How to Prepare a Detailed Project Report" in the UGC sponsored workshop on "Research Methodology" organized by Swahid Peoli Phukan College, Namti held at Hotel Brindavan, Sivasagar on 5 May, 2011
- "Medicinal chemistry researches with North East resources" in Chemistry in Societal & Invited needs, International Seminar organised by ICCS and MSF, Chennai at CSIR-CLRI, Chennai on 30 August, 2011
- "Medicinal chemical researches with North East resources" in the international symposium on Chemistry in Societal and Environmental Needs" organized to celebrate International Year of Chemistry 2011 organized by Madras Science Foundation, Centre for International Cooperation in Science and CLRI, Chennai on 31 August, 2011
- "Discovery of Medicine: Involvement of North-East" in Anniversary Meeting of INSA Invited talk in the Symposium held on "Discovery of Medicine: Involvement of North-East" organized by Tezpur University on 29 December, 2011

Dr B G Unni, Chief Scientist

- Guest lecture "Recent developments of molecular tools in Health sector: Applications and analysis" as a part of Silver Jubilee celebration of Manipal Dental college of Dental Sciences at Dept. of Oral Pathology and Microbiology, Manipal College of Dental Sciences, Mangalore on 7 June, 2011.

- 'Eco friendly and viable technologies to improve the muga silk production' at 7th Training/Workshop on Muga Sericulture held at Hotel Bridaban, Sivasagar on 26 July, 2011.
- 'Current trend of biochemical, biotechnological and molecular research in non mulberry silkworm' at the DBT sponsored Workshop on "Emerging areas of Seri Biotechnology" held at CMER&TI, Lahdoigarh on 29 September, 2011.
- (i) Sequence analysis, alignment & microarrays what can we do with a genome sequence and microarrays and data clustering etc? and (ii) Basics of bioinformatics & application in biosciences research to the students at CSIR-IICT, Hyderabad during 12-14 October, 2011
- 'Bioenergy from Agriculture and Industrial Biomass: An alternative source of fuel' at a Conference organized by Humboldt Club jointly with Max Muller Bhavan, held at Diamond Harbour, Kolkata during 12-14 November, 2011.
- 'Impact of Environmental pollution on Human health: Epidemiological and biochemical studies' at the National Conference on Interface of Science and Environment: Emerging Public Health Challenges & 13th Annual Meeting of Society of Science & Environment held at Calcutta University during 24-26 November, 2011.
- 'Recent Trend of Biotechnological and Molecular Research in Non-Bulberry silkworm, *Antheraea assamensis*, Helfer' at the XXII Congress of the International Sericultural Commission during 14-18 December, 2011.
- Key lecture "Isolation and functional properties of biomolecules of insect, plant and microbial origin and its application" at the international conference on biologically active molecules held at Gandhigram University, Madurai on 09 March, 2012.

Dr Ranju Duarah, Chief Scientist

- Popular talk on "Seismic Hazard Scenario of NE India" at Children Book Festival organized by ANWESHA, Guwahati on 2 November, 2011.
- Popular talk on "Seismic Vulnerability of NE India & Risk Management" on the occasion of Golden Jubilee Celebration of Geology Department, Sivasagar College on 9 February, 2012.

Dr Sekh Mahiuddin, Chief Scientist

- "Chemistry in nature" during Faculty Training and Motivation and Adoption of Schools and Colleges by CSIR Labs programme organized by CSIR-NEIST, Jorhat on 16 November, 2011

Dr P K Goswami, Chief Scientist

- "Emerging food & nutrition safety issues-global challenges, India perspectives" during NE Food Summit held at Guwahati on 21 March, 2012

Dr Dipak Kumar Dutta, Chief Scientist

- 'Nanopores Generation and in-situ stabilization of Metal Nanoparticles into Clay matrix' at the National Seminar on "Recent Trend on Nanoscience and Technology", held at Chemistry Department, Bahona College, during 20-21 May, 2011.
- "Platinum metals complexes of functionalized unsymmetrical hemilabile phosphine ligands and their reactivity" at the Eastern Zonal Meeting 2011 organized by Chemical Research Society of India (CRSI) during 22-24 July, 2011 at the Department of Chemistry, University of North Bengal, Darjeeling.
- 'Nanoscience and Nanotechnology: A Prospect of Future' at the Seminar "International Year of Chemistry 2011" organized by Jorhat Institute of Science and Technology (JIST) (Earlier Science College), Jorhat on 26 August, 2011.
- "Rhodium (I) and Iridium (I) carbonyl complexes of ortho-substituted triphenyl phosphine based P, O donor ligands and their reactivity" at the 3rd Asian Conference on Coordination Chemistry held at Indian Habitat Centre, New Delhi during 17-20 October, 2011.
- "Clay based solid acid catalysts and metal nanoparticles" and "Clay catalysts" at the Refresher course in Chemistry-XIII held at Gauhati University on 15 November, 2011.
- "Ru⁰-nanoparticle Supported into Modified Montmorillonite Clay and its Catalytic Transfer Hydrogenation Reaction" at 15th National Workshop on The Role of Materials in Catalysis, held at IIT-Madras during 11-13 December, 2011.

Dr P K Chowdhury, Chief Scientist

- "Development of 16-DPA Technology from Diosgenin through Captive Generation of Plant Sources in NE India" at Pharmaceutical Technology Division, DRL Tezpur on 12 December, 2011

Dr P R Bhattacharyya, Senior Principal Scientist

- Plenary lecture on "Perspectives in Biodiversity and Conservation strategy at a UGC/CSIR sponsored National Seminar on 'Recent thrust in Biodiversity Conservation- North East India: A Hot spot of Biodiversity", held at Birjhara Mahavidyalaya, Bangaigaon, Assam during 30-31 January, 2012.

Dr R K Boruah, Senior Principal Scientist

- "The chemical structure of coal: An x-ray scattering study" during Faculty Training and Motivation and Adoption of Schools and Colleges by CSIR Labs programme organized by CSIR-NEIST, Jorhat during 16-17 November, 2011

Dr Pabon Kumar Bora, Senior Principal Scientist

- "Past Great earthquakes of Assam" as the "Dulal Khound Memorial Talk" at Kakojan College on 2 November, 2011. The talk is arranged every year by the College in memory of its Founder Principal, Late Dulal Khound.
- "Natural disasters and school children earthquake safety drills" on the occasion of Silver Jubilee celebration at Doomduma college on 02 November, 2011
- "Safety in schools from earthquake hazard" at Folongoni Nabjyoti High School on 03 January, 2012.

Dr T C Bora, Senior Principal Scientist

- "Biodiversity: its problems & prospects with special reference to Microbial Diversity of North East India" at DCB Girls College, Jorhat during celebration of Silver Jubilee of the college on 18 April, 2011.
- "Biodiversity and North East Gene Pool" at the state level training of Student Federation of India organized by SFI, Assam State branch at Jorhat on 29 July, 2011.
- "Bioprospecting and bioprofiling Microbial Diversity: a report from North East Gene Pool" at the 18th International Conference (Post: ISCBC), Perspective and Challenges in Chemical and Biological Sciences: Innovation Cross Roads organized by Institute of Advance Study in Science & Technology (IASST), Guwahati & Indian Society for Chemists and Biologists, Lucknow, India held at Guwahati during 28-30 January, 2012.
- "Screening microbial metabolites for Anticancer and anti-infective potential: A report from North East Gene Pool" In International Conference on Microbial, Plant & Animal Research (ICMPAR -2012) organized by and held at Department of Sciences, Faculty of Art, Science and Commerce, Moody Institute of Technology & Science, Lakshmangarh, Sirkar, Rajasthan during 29-31 March, 2012.

Dr Amrit Goswami, Senior Principal Scientist

- "Different routes of organic synthesis" at a seminar organized under International Year of Chemistry-2011 celebration at NNS College, Titabor on 4 November, 2011.

Dr P C Neog, Senior Principal Scientist

- "R&D planning" at CSIR-NEIST on 13 September, 2011.
- Popular science talk on "Science awareness and the role of school students" at Nabjyoti High School, Phalangani, Golaghat on 18 January, 2011.
- At National Science day at Puranimati HS School, West Jorhat, on 28 February 2012.
- Popular science talk on National Science Day on 29 February 2012 at Pirakata High School, Teok.
- Popular science talk on 'Water and Food security' on 22 March 2012 on celebration of World Water Day, organized by Aryabhatta Science Centre (Central Jorhat) at Jhajimukh Janajati High School, Jhajimukh, Teok.
- "Science awareness with special reference to school children" on the occasion of Silver Jubilee celebration of Phalangani High School, Golaghat, on 18 January, 2012.

Dr Saurabh Barua, Senior Principal Scientist

- "Earthquake: its risk and mitigation" in the 'Short term training course in disaster management for senior faculties (Assistant Professor stage 3 onwards) of universities and colleges' organized by UGC-Academic Staff College, Gauhati University on 14 July, 2011.
- "Application of physics to understand the earthquake seismology" in the Short term training course DST-INSPIRE Programme' held at Dibrugarh University during 18-19 July, 2011.

- "Indian Scientific Expedition to Antarctica" in the Department of Physics, J B College, Jorhat on 9 September, 2011.
- Dulal Khound Memorial talk on "Great earthquakes of Assam: an lesson to learn for safe and better living" at Kakojan College on 09 September, 2011.

Dr R L Goswami, Principal Scientist

- "Development of a low cost process for fluoride removal from fluoride contaminated water specific to NE region for public use" in the 11th Meeting of the reconstituted expert group on Prevention, Abatement and Control of Pollution" at Ministry of Environment and Forests, New Delhi on 01 February, 2012.

Dr B P Baruah, Principal Scientist

- "North East Coals—A sustainable energy resource and environmental issues" at Asom Mohatsav held at Jorhat on 10 December, 2011.

Dr H B Singh, Principal Scientist

- "Medicinal plants resource of Manipur and its potential for promotion" under UGC refresher course for college & university teachers at Manipur University, Imphal on 02 September, 2011.
- "Wetland plants as food and medicine by the ethnic people of Manipur, Northeast India: Assessment of phenolic contents and free radical scavenging activity" in the National workshop on AYUSH sponsored by Medical Directorate, Manipur organized by Waikhom Mani Girls' College, Thoubal, Manipur 08 October, 2011.

Dr Tridip Goswami, Senior Scientist

- "Utilization of Banana fibre for value added products" (as resource person) at a workshop on 'Small scale rural technology' held at Manohari Devi Kanoi College, Dibrugarh on 29 June, 2011.
- "Development of SC/ST areas through establishment of cottage scale industry based on banana fibre" in Sensitization workshop for development of location specific R&D and demonstration project for SC/ST dominated location funded by ASTEC under state science technology programme (SSTP) of DSTE, GOI held at NEIST on 5 January, 2012

Dr Mantu Bhuyan, Scientist

- "Biodiversity- Issue & Concern & DNA Club" on occasion of World Environment Day at Dahotia High School, Jorhat on 6 June, 2011.

Dr Dipul Kalita, Scientist

- "Possibilities of some small scale technology in rural areas" (as resource person) at a workshop on 'Small scale rural technology' held at Manohari Devi Kanoi College, Dibrugarh on 29 June, 2011.

Dr Prasenjit Siakia, Scientist

- "Energy conservation and renewable energy prospects in NER India" in Oil and Gas Conservation fortnight organized by OIL, Moran held during 25-31 January, 2012.

Dr B C Baruah, Scientist

- 'Cultivation of Mushroom, production of vermicompost and extraction of essential oil" during one month's training programme organized for the students of NERIST, Nirjuli' on 11 May, 2011

Mr Dipak Basumatary, Scientist

- "Water conservation" in Water Awareness Week 2011-2012 celebration organized by Oil India Limited, Moran on 30 March, 2012
- "Green building" in a Technical Seminar organized by Oil India Limited, Moran on 30 March, 2012

Dr Jatin Kalita, Junior Scientist

- "Chemical Hazards" in Zonal workshops on Hazards at Karbi Anglong during 13-14 October, 2011 during 13-14 October, 2011

Mr M Rahman, Senior Technical Officer

- " what to do and what not to do before, during and after earthquake" in Zonal workshops on Hazards at Karbi Anglong at Doomdooma during 03-04 January 2012

RADIO TALKS

Dr J C S Katakya, Chief Scientist

- "Nano Projukti- Oushadhat iar Probhav" broadcasted by All India Radio, Dibrugarh on 28 June, 2011.
- "Bigyanor Dristit Yoga Aru Amar Kartobya" which was broadcasted by All India Radio, Dibrugarh on 01 January, 2012 at 0620 hrs in Bigyan Jeuti programme.
- "Yoga Aru Bigyan" which was broadcasted by All India Radio, Jorhat on 02 February 2012 at 0630 hrs.
- "National Science Day 2012" (Dialogue) which was broadcasted by All India Radio, Dibrugarh on 28 February, 2012 at 2000 hrs in Bigyan Jeuti programme.

Dr Ranju Duarah, Chief Scientist

- "Current Seismic Status of NE India" broadcasted by All India Radio, Jorhat on 5 February, 2012.

Dr P R Bhattacharyya, Senior Principal Scientist

- "Discussion on machinery used for farming and farmers awareness" on 26 July, 2011 at All India Radio/Doordarshan.

Dr P C Neog, Senior Principal Scientist

- "Manmade Hazards" broadcasted by AIR, Jorhat Centre.
- "Natural Hazards" broadcasted by AIR, Jorhat Centre.

Dr Amrit Goswami, Senior Principal Scientist

- 'Green Chemistry' at All India Radio-Dibrugarh which was broadcasted on 20 April, 2011.
- 'International Year of Chemistry and role of chemistry in day to day life' at All India Radio-Jorhat which was broadcasted on 24 October, 2011.

Dr Saurabh Barua, Senior Principal Scientist

- "Bhumikampar Aagjanani: Eti Parjyalochana" on 13 September, 2011 at All India Radio-Dibrugarh.

Dr Mantu Bhuyan, Scientist

- "Animal Self Medication (Assamese)" at All India Radio, Jorhat which was broadcasted on 27 April, 2011.
- "Current Science News (Assamese)" at All India Radio, Jorhat, which was broadcasted on 29 January, 2012.

Dr Dipul Kalita, Scientist

- Bamboo fibre and its use (Science talk in Assamese) broadcasted by AIR Jorhat on 31.05.2011

Dr Jatin Kalita, Junior Scientist

- "Current Science (in assamese) broadcasted by AIR, Jorhat on 25 June, 2011

Ms Kalyani Medhi, Junior Scientist

- "Transgenic Plant (in Assamese) broadcasted by AIR, Jorhat on 18 June, 2011
- "Kando kush (stem cell)" broadcasted by AIR, Jorhat on 21 February, 2012

Dr A K Bordoloi, PTO

- "Mushroom Cultivation and Commercial Scope" at All India Radio/Doordarshan which was broadcasted on 28 July, 2011 in the programme, "Ghore Pothare".
- "Mushroom cultivation and commercial benefits and uses" at All India Radio, Jorhat which was broadcasted on 11 October, 2011.

Mr Madhurjya Saikia, Technical Assistant

- "Nano-Prajukti aru amar Jivan (Nanotechnology and our life) (in Assamese) broadcasted by AIR, Jorhat on 08 April, 2011
- "Quantum mechanics aru iyar hoite jorito keitaman bikhyat tatwa (Quantum mechanics and some famous theory about it)" broadcasted by AIR, Jorhat on 24.01.2012

RAJBHASHA ACTIVITIES IN THE INSTITUTE

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. Guest lecture invited for two sessions and rest two sessions for practical under “Table Workshop”. The following workshops were organized during the year:

- All the Technical Officer, Technical Officer (1), Technical Officer (2) and newly recruited staff have participated the two days workshop held on 23 and 24 June 2011. The sessions of first covered the matters related to the importance of Official language Hindi. The topic of second day was “Unicode Hindi Compatibility of Computer and use of Google Hindi”, all the participants practically done their work in Hindi on computers and practiced Google Hindi for small translation through internet.
- Under the Hindi Week celebration in September, we have organized two days Hindi Workshop for all the Rajbhasha Representatives of Division/ Section of NEIST. It was held on 7 and 8 September 2011. Both session of first day, focused on the Official Language Policy and Annual Programme of Rajbhasha Hindi and second day covered by practical works under Table Workshop.
- Two days workshop has been organized for the newly recruited technical/ scientific and administrative employees/ officers on 30 March and 2 April 2012. This workshop specially organized for all those who were going to appear in prescribed Hindi Course Prabodh/ Praveen/ Pragya 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.

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 (Govt of India, Ministry of Home Affairs). This centre is providing in 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. We are processing admission as per eligibility and conducting classes for regular trainees. We are conducting examination every year in May and November as per guidelines of Dy Director (Exam) Hindi Teaching Scheme, New Delhi. The examination of this period :

Trainees of various offices of this region appeared and passed in May 2011 Examination

Prabodh : 68 (Passed : 68)

Praveen : 34 (Passed : 34)

Pragya : 20 (Passed : 20)

Trainees various offices of this region appeared and passed in November 2011 Examination :

Prabodh : 60 (Passed : 60)

Praveen : 58 (Passed : 57)

Pragya : 16 (Passed : 16)

Scientific literature/ publication/ report in Hindi

Annual Report of Project titled “Development of Super High strength Proppants” prepared bilingual and submitted to Oil Industries Development Board, New Delhi

Official language implementation committee, NEIST Jorhat

As per provision, the OLIC meeting organised accordingly under the Chairmanship of Director NEIST.

Town Official Language Implementation Committee (TOLIC), Jorhat

Director, NEIST, Jorhat Dr. P G Rao is Chairman of Jorhat Town Official Language Implementation Committee and Mr Ajay Kumar, Incharge Rajbhasha, NEIST, Jorhat is Member-Secretary of the said Committee. This Committee is formed by the Deptt. Of Official Language, Ministry of Home, Govt. of India, New Delhi. All Central Govt. Offices located at Jorhat Town including Military, Para-Military, Nationalised Banks, Corporation, board, council are member of this committee. The function of the TOLIC is to guide and evaluate members offices in terms of Implementation of Rajbhasha Hindi in their offices and organize yearly meetings with all the Head of the member offices.

23rd Meeting of TOLIC, Jorhat : The 23rd Meeting of TOLIC, Jorhat held on 7th December 2011 at NEIST, Jorhat under the Chairmanship of Dr. P G Rao. Mr. Ashok Kumar Mishra, Asstt. Director (Rajbhasha), Regional Implementation Office, Guwahati were present in the meeting as observer. The meeting was conducted by member Secretary, TOLIC Mr Ajay Kumar. A Power Point presentation on the subject “How to activate the inbuilt Hindi facilities on computer/ laptop and use of Google for Hindi” presented by the Secretary and Chairman has distributed Hindi software/ study materials bundled CD for office to all the participants. As per agenda communicated to all offices, the members have discussed on Quarterly Progress Report of Hindi, problems of Hindi staff in offices, training, bilingual computer etc. Every offices presented their report of progress. The meeting ended with assurance, hope and commitment to make progress in Rajbhasha Hindi.



Dr P G Rao as Chairman TOLIC in 23rd meeting held at MS Ayangar Hall, NEIST, Jorhat

Lecture delivered / participation in conference /Hindi workshop in other institution/ offices

Mr Ajay Kumar, Incharge Rajbhasha and Secretary Town Official Language Committee, Jorhat attended the following offices on invitation for programme / workshop/ conference and delivered lecture :

- Central Bank of India, Regional Office, Jorhat : Delivered lecture as chief guest on the topic “The implementation of Official Language Policy of Government of India” on 16/7/2011 at the inaugural function of one day Hindi Workshop.
- ONGC, Assam & Assam Arakan Basin, Jorhat : Delivered guest lecture in Hindi Workshop organized on 8&9 August 2011 and in another workshop for the specially arranged for the department of Geo-Physics, ONGC on 17/10/2012.
- Invited as guest of honor in a “Hindi Hasya Kavi Sammelan” organized under Hindi Week on 04/09/2011.
- State Bank of India, Zonal Office, Jorhat : Delivered lecture as Chief Guest on the occasion of Hindi Day on 17/09/2012.
- Ministry of Textile, Govt of India, Central Silk Board, Regional Sericulture Research Station, Rowrah : Delivered lecture as chief guest on the topic “Rajbhasha Implementation in Office”. dated 29/9/2011 on the occasion of Hindi Day/ Fortnight.
- National Bureau of Soil Survey and Land Use Planning (ICAR). Jamuguri, Rowreya, Jorhat : Delivered lecture as chief guest dated 20/9/2011 at 02.30 pm on the occasion of Hindi Workshop, subject “The use of Unicode Hindi in Computer” . .

- Rashtrabhasha Prachar Samiti, Wardha (Maharashtra) is conducting Hindi Literature course of different level (Matric to degree) at Assam Rajya Rashtrabhasha Prachar Samiti, Hindi Bhawan, Nehru Park Road, Jorhat, they have nominated as expert to take Viva-voce for degree level Hindi course for the year.
- Kendriya Vidyalaya, NEIST, Jorhat : invited as chief guest to judge the Hindi Poem recitation programme of various level of students on 27 September 2011.
- Divisional Office, UCO Bank, Jorhat : invited as chief guest to judge the Hindi Extempore, poem recitation competitions, etc. on the occasion of Hindi Day dated 20/09/2011.
- DOEACC, National Institute of Electronics and Information Technology : nominated as Superintendent of “Online Hindi Medium Computer Course” examination held on Assam Rajya Rashtrabhasha Prachar Samity Study Centre, Jorhat on 22/10/2011.
- Ministry of Environment and Forests, Government of India, Rain Forest Research Institute (ICFRE), Jorhat : Delivered lecture as chief guest in a Hindi Workshop on the topic “Hindi Grammar of Daily Use” dated 22/12/2011.
- Government of India, Ministry of Home Affairs, Hindi Teaching Scheme, Guwahati : invited as resource person to deliver lecture in a –
- 14/12/2011: Topic was “The software of Hindi and their use” in the Training of Basic knowledge of Hindi on the computers.
- 16/02/2012 : Topic was “Mantra and Shrutlekhan software”
- 17/02/2012 : Topic was “Use of Hindi in Email, Microsoft Word, Excel, PowerPoint etc.” in a Training on IT Tools of Hindi in day to day use of Computers.
- United Bank of India, Regional Office Jorhat : Delivered lecture as chief guest on the topic “ Rashtrabhasha and Rajbhasha of India” and “ Google Hindi and the use of Unicode on computer” dated 24/12/2011.

State Bank Learning Centre, Jorhat : Delivered lecture as resource person on the following topics:

- 12/01/2012 : “Rajbhasha Policy” and “Standardization of Hindi Alphabets”
- 13/01/2012 : “Hindi Teaching Technique” and “Basic Hindi Grammer”
- 17/01/2012 : “Annual Programme of Rajbhasha” and “Hindi in Office”
- 18/01/2012 : “Hindi Correspondence” and “Hindi as Rajbhasha”
- 03/02/2012 : “Unicode in Computer” and “Translation”

Government of India, Ministry of Home Affairs, Department of Official Language, Guwahati : attended Regional Rajbhasha Conference held on 13/02/2012 at Guwahati

Central Muga, Eri Research and Training Institute, Central Silk Board, (Ministry of Textile, Govt of India) Ladoigarh, Jorhat : Delivered lecture in a Hindi Workshop on 28/12/2011, the topic “The use of Rajbhasha Hindi in Office” and another on 06/03/2012, the topic “ Standard Hindi and Sentence Structure”.

AWARDS

CSIR-NEIST received CSIR Technology Award 2011

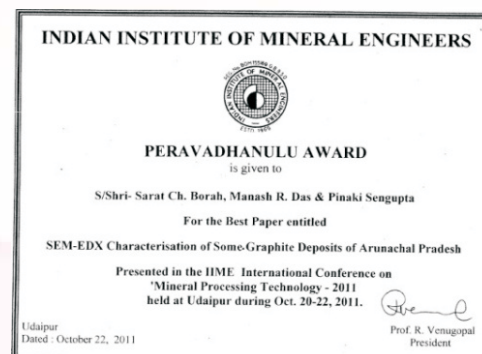


Dr P G Rao (extreme left), Director, CSIR-NEIST and Dr B G Unni (2nd from right), Chief Scientist & team leader of the award winning team, receiving the Award from Shri Vilasrao Deshmukh (4th from right), Hon'ble Minister of S&T and Earth Sciences & Vice-President, CSIR in presence of Dr Ashwani Kumar (3rd from left), Hon'ble Minister of State for S&T, Earth Sciences and Planning; Dr R A Mashelkar (3rd from right), former Director General-CSIR; Prof Samir K Brahmachari (2nd from left), Director General-CSIR and Dr Rajesh Gokhale, Director, CSIR-IGIB, New Delhi.

The CSIR Technology Award-2011 in Life Sciences was awarded to CSIR-North East Institute of Science and Technology for developing the technology "Terminalia chebula based bioformulation (Muga Heal) - an anti-flacherie agent and a silk fiber enhancer". The technology was developed by Dr B G Unni, Chief Scientist & Area Coordinator of Biological Sciences and his team. In a special function held at Vigyan Bhavan, New Delhi to mark the 69th CSIR Foundation Day, the award was presented to the team by Shri Vilasrao Deshmukh, Hon'ble Minister of Science & Technology and Earth Sciences & Vice President-CSIR in presence of Dr Ashwani Kumar, Minister of State for Science & Technology, Earth Sciences and Planning, Dr R A Mashelkar, Former Director General-CSIR, National Research Professor and Prof Samir K Brahmachari, Director General-CSIR and other dignitaries.

CSIR-NEIST Scientists received Peravadhanulu Award

The Indian Institute of Mineral Engineers has awarded the prestigious "Peravadhanulu Award" for the best paper in the characterization category to Mr Sarat Ch Borah, Dr Manash R Das and Dr Pinaki Sengupta for their paper entitled, 'SEM-EDX characterization of some graphite deposits of Arunachal Pradesh' presented by Manash R Das in the "IIME International Conference on Mineral Processing Technology, MPT 2011" held at Udaipur during 20-22 October, 2011. The award carries a citation and a cash award of Rs. 1000.00.



The Award Certificate

Dr B N Mehrotra Medal 2010

Dr S C Nath, Chief Scientist, was awarded Dr B N Mehrotra Medal for the year 2010 by the Society of Ethnobotanists, Lucknow, India, for his meritorious research contributions in the field of medicinal, aromatic and economic plants. The Medal was instituted by the Society in memory of Late Dr B N Mehrotra, a re-known CSIR scientist working at the Central Drug Research Laboratory, Lucknow for more than three decades. The Medal was formally presented to Dr S C Nath at a special function organized by the Society at National Botanical Research Institute, Lucknow on 28 July, 2011.



*Dr S C Nath,
Chief Scientist*

Coal Beneficiation Award

Dr B P Baruah, Principal Scientist, has been awarded the prestigious “Coal Beneficiation Award (Academic/R&D)” instituted by the Indian Institute of Mineral Engineers (IIME) for his outstanding professional contribution to Mineral Engineering. The Award was presented by Professor R Venugopal, President, IIME and Dean, Indian School of Mines, Dhanbad at the XIIth International Conference on Mineral Processing Technology, 2011 on 20 October, 2011 held at Hindustan Zinc Ltd., Udaipur.



*Dr B P Baruah,
Principal Scientist*

SARC Distinguished Scientist Award – 2011

Dr Siddhartha P Saikia, Scientist, has been awarded the prestigious “SARC Distinguished Scientist Award—2011” by the ‘Scientific & Applied Research Centre’, Chaudhary Charan Singh University, Meerut, Uttar Pradesh, for his outstanding contribution in the field of Plant Biotechnology. The Award was formally conferred on 14 September, 2011 on the occasion of “National Symposium on Advances in Biotechnology Research in Agri-Horticultural Crops for Sustaining Productivity, Quality, Improvement and Food Security” held during 14-16 September, 2011 at Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut, Uttar Pradesh.



*Dr Siddhartha
P Saikia, Scientist*

Best Poster Presentation Award

A poster entitled, “In situ generation of Cu⁰- nanoparticles on modified Montmorillonite clay and their characterization” presented by Mr Dipanka Dutta, Technical Assistant, authored by Mr Dipanka Dutta and Dr Dipak Kumar Dutta was awarded the Best Poster Presentation Award at the National Workshop on “Recent Trend in Nanoscience & Technology (RETNAT, 2011)” held at Bahona College, Jorhat, during 20-21 May, 2011.

1st prize in Scopus quiz

Mr. Arvind Gautam, Jr Scientist received 1st prize in Scopus quiz initiated by Elsevier in North East Region Universities, India. The award was given by Elsevier Science & Technology, South Asia, Gurgaon on 8 February, 2012.

3rd Runner up in Best Managers Competition

Dr Dipanwita Banik, Jr Scientist, received joint third runners up award in the recently conducted, “North East Best Managers Competition” by Guwahati Management Association. The award was given at the award ceremony held on 28 July, 2011 at hotel Landmark, Guwahati.



*Dr Dipanwita Banik,
Jr Scientist*

CSIR-NEIST, Jorhat received National level award for implementation of official language

Rajbhasha Sansthan, New Delhi conferred a national level award to CSIR-NEIST, Jorhat at a National seminar organized by Rajbhasha Sansthan at Solan, Himachal Pradesh during 27-29 April, 2011 for better implementation of the use of Official Language, Hindi. The award was given particularly in recognition of the quality bimonthly publication of CSIR-NEIST in Hindi named as “NEIST News” published by Information & Business Development division of CSIR-NEIST. The division regularly publishes the Hindi version of the bimonthly news bulletin.



The Award Memento

CSIR-NEIST received National level Award for Hindi implementation

Rajbhasha Sansthan, New Delhi honoured CSIR-NEIST with prestigious all India level award “KARYALAYA DEEP” for its contribution in the field of implementation of Rajbhasha Hindi in Office. This Award is conferred for the best performance among autonomous bodies in India. The Award was conferred at a Conference-cum-workshop organized during 9-11 November, 2011 at Dalhousie, Himachal Pradesh.



1st Prize for Best Exhibition stall at Tripura State Science Fair 2011-2012

CSIR-NEIST participated in Tripura State Science Fair 2011-2012 organized by Tripura State Council for Science & Technology and State Education Research & Training Council, Govt. of Tripura, at Umakanta Academy, Agartala, during 5–8 January, 2012. CSIR-NEIST participated in the exhibition and showcased its activities by display of posters, samples and other exhibit materials. CSIR-NEIST stall received the first prize for best exhibition stall.



CSIR-NEIST personnel receiving the prize trophy.

CSIR-NEIST tableau received first prize at Jorhat District Administration's Republic Day celebration

CSIR-NEIST participated in the tableau parade on 26 January, 2012 at Jorhat Court Field. The tableau represented the Institute's achievements and activities since its inception in various areas of research for development of the region in particular and the country as a whole. CSIR-NEIST received the First prize for best tableau on the occasion.



CSIR-NEIST tableau at the Jorhat District Republic Day celebration at Court Field.

Literary Award to Sri Ananta Kumar Sharma

Sri Ananta Kumar Sharma, Principal Technical Officer, was conferred Literary award by the Children's Literary Trust of Assam, Guwahati, for his informative fiction “Simahin Sitar Sikhare”. The Award was formally presented at a function held at State Museum Conference Hall, Guwahati on 29 February, 2012.



Sri Ananta Kr Sharma
PTO

APPRECIATION

Certificate of Appreciation

Dr R C Boruah, Outstanding Scientist, received 'Certificate of appreciation' from the American Chemical Society Publications. The certificate is awarded in recognition of his valuable contribution and dedicated service in peer review of manuscripts submitted to American Chemical Society (ACS) journals. The ACS journals are ranked number one in either Citations or Impact Factor in all seven core chemistry categories according to the 2010 Thomson Reuters Journal Citation. His contribution as a reviewer, along with the contributions of reviewers and authors from the global scientific community for the year 2011, has been appreciated as critical to the advancement of science that set a standard of excellence.



*Dr R C Boruah,
Outstanding Scientist*

Certificate of Appreciation

Dr S Mahiuddin, Chief Scientist, received "Certificate of Appreciation" from the American Chemical Society Publications. The certificate is awarded in recognition of his valuable contribution and dedicated service in peer review of manuscripts submitted to American Chemical Society (ACS) journals for the year 2011. The ACS journals are ranked number one in either Citations or Impact Factor in all seven core chemistry categories according to the 2010 Thomson Reuters Journal Citation.



*Dr S Mahiuddin,
Chief Scientist*

Prestigious Author's Certificate

Dr Pritish K Chowdhury, Chief Scientist, received the Prestigious Author's Certificate from OMICS Publishing Group, USA (An open Access Publisher & Scientific Events Organizer for the advancement of Science & Technology: ranked 9th in the world by Index Copernicus) for the 'Chemical Engineering & Process Technology' in the year 2011 scoring 210 & 190 for Number of full text views & Number of PDF downloads respectively with a total scientific credit of 200 for his article entitled, "A Simple Efficient Process for the Synthesis of 16-Dehydropregnenolone Acetate (16-DPA) - A Key Steroid Drug Intermediate from Diosgenin" with doi.10.4172/2157-7048.1000117.



*Dr Pritish Chowdhury,
Chief Scientist*

CSIR-NEIST Research article recognized among Top 25 hottest articles

The Research article entitled, "Synthesis of silver nanoparticles in an aqueous suspension of graphene oxide sheets and its antimicrobial activity" by M R Das, R K Sarma, R Saikia, V S Kale, M V Shelke and P Sengupta published in the journal, Colloids and Surfaces B: Biointerfaces 2011, 83 (1), 16-22 has been recognized by SciVerse Science Direct as Top 25 Hottest Articles. This rare achievement came as a morale booster for the research scientists of CSIR-NEIST.

CSIR-NEIST Research Article recognized number one among top 10 cited papers

The research paper entitled, "An efficient and one-pot synthesis of imidazolines and benzimidazoles via anaerobic oxidation of carbon-nitrogen bonds in water" by authors, Gogoi P and Konwar D; Tetrahedron Letters, Vol.47, Issue 1, 2006, pp: 79-82 has been recognized as number one among the top ten cited papers published in the last five years. The same paper has been recognized as best cited 50 papers twice by Elsevier Publications, the publisher of Tetrahedron Letters.

CSIR-NEIST Research Article chosen amongst Top 10 most-read Nanoscale Article

The research paper entitled, "Silicon nanowire arrays-induced graphene oxide reduction under UV irradiation" by authors, Ouarda Fellahi, Manash R Das, Yannick Coffinier, Sabine Szunerits, Toufik Hadjersi, Mustapha Maamache and Rabah Boukherroub, *Nanoscale*, 2011, 3, 4662-4669 has been recognized in top 10 most-read nanoscale article in October, 2011.

CSIR-NEIST research article among top 25 Hottest Articles

CSIR-NEIST research article on "Synthesis of silver nanoparticles in an aqueous suspension of graphene oxide sheets and its antimicrobial activity" by authors, Manash R Das, Rupak K. Sarma, Ratul Saikia, Vinayak S. Kale, Manjusha V. Shelke and Pinaki Sengupta, has been recognized in top 25 hottest articles by *Colloids and Surfaces B. Biointerfaces* (March to June 2011), 2011, 83(1), p: 16-22.

Top 10 (Ten) Most Accessed Articles

Top 10 (Ten) Most Accessed Articles in the journal "Green Chemistry" (Royal Soc.) "Stabilization of Cu⁰-nanoparticles into the nanopores of modified montmorillonite: An implication on catalytic approach for "Click" reaction between azides and terminal alkynes", Bibek Jyoti Borah, Dipanka Dutta, Partha Pratim Saikia, Nabin Chandra Barua, Dipak Kumar Dutta, *Green Chem.* 13(12), (2011) 3453-3460 (I.F. 5.47).

Top 25 (Twenty five) Most Downloaded Articles

Top 25 (Twenty five) Most Downloaded Articles (from Sciverse ScienceDirect) in the journal *Catalysis Communication*. "Efficient clay supported Ni⁰ nanoparticles as heterogeneous catalyst for solvent- free synthesis of Hantzsch polyhydroquinoline", Lakshi Saikia, Dipanka Dutta, Dipak Kumar Dutta, *Catalysis Communication*. 19 (2012) 1-4 (I.F. 2.83).

Flower show

Floriculture section, CSIR-NEIST, Jorhat has participated in the flower show-cum-cooking competitions organized by Ladies Club, CSIR-NEIST on 12 February, 2012 at Community Centre premises. Among the competitors, floriculture section, CSIR-NEIST received the following prizes in various events.

Cut flower	Gladiolus	1 st Prize
	Dahlia	1 st & 3 rd Prize
	Marigold	1 st & 2 nd Prize
Pot plant	Flowering	1 st & 2 nd Prize
	Non-flowering	2 nd Prize
Flower arrangement		2 nd Prize

PROJECT UNDERTAKEN

Consultancy

Sl. No.	Project	Funding Agency	Contract value in Rs (lakhs)
1	Soil investigation for NCTS, NOBS and WPS at IOCL, Digboi Refinery, Assam. P.I : Mr. P Barkakati, SPS	Indian oil Corporation Limited, AOD, Digboi	691350.00
2	Feasibility studies for manufacturing of soil conditioner from coal and coal waste. P.I : Dr. BP Baruah, PS	Directorate of Geology & Mining, Govt. of Nagaland, Dimapur.	250000.00
3	Preparation of detail project report (DPR) CFC on Knife manufacturing cluster at Karanga, Jorhat, Assam. P.I : Mr. Dipankar Neog, Sc.	Ministry of Micro, Small & Medium Enterprise, Diphu.	109000.00

Grant-in-Aid

Sl. No.	Project	Funding Agency	Contract value in Rs (lakhs)
1	Biotechnological interventions for production of androgenic haploids to speed and support breeding of ginger. P.I : Dr. BS Bhau, SS	Min of Science & Technology	1387000.00
2	Genetic diversity of antimicrobial agents producing streptomycetes isolated from protected Forest area of Assam and Arunachal Pradesh. P.I : Dr. Rutul Saikia, SS	Min of Science & Technology	2876000.00
3	Biotech Interventions on Selected Medicinal & Aromatic Plants (MAP) of NER for their effective utilization. P.I : Dr. PR Bhattacharyee, SPS	Min of Science & Technology	7840000.00
4	Yield enhancement strategies for production of therapeutic compounds by cell and tissue cultures of <i>Tinospora cordifolia</i> (willd.) Miers ex Hook. F. & Thoms. P.I : Dr. BS Bhau, SS	Min of Science & Technology	1297000.00
5	Domino prins cyclization reactions: Synthesis of noval highly functionalized tetrahydropyran piperidine derivatives. P.I : Dr. Gakul Baishya, Sc.	Min of Science & Technology	2420000.00
6	Active tectonic and paleoseismic studies, using geophysical parameters, along the mountain frontal part of Eastern Syntaxial Bend, Lower Dibang Vally and Lohit Dist, Arunachal Himalaya. P.I : Dr. RM Devi, (WOS – A)	Min of Science & Technology	2000000.00

PROJECT COMPLETED

Consultancy

Sl. No.	Project	Funding Agency	Contract value in Rs (lakhs)
1	Approach for reclamation of Drill Sites through application of vegetation for environment protection; By NEIST, Jorhat, Assam. P.I: Dr. (Ms) Neelima Saikia, Sc EI	ONGCL, Assam Asset, O.T. Complex, Sibasagar.	4789000/=
2	Soil investigation for NCTS NOBS and WPS at IOCL, Digboi Refinery, Assam. P.I : Mr. P Barkakati, SPS	Indian Oil Corporation Limited, AOD, Digboi	691350/=

Grant-in-Aid

Sl. No.	Project	Funding Agency	Contract value in Rs (lakhs)
1	Modeling of earthquake source and ground motion in chedrang Fault and its vicinity through broadband instrumentation: An approach towards the estimation of earthquake hazard in NER, India. P.I : Dr. Saurabh Baruah, SPS	DST, New Delhi.	6611000/=
2	Diversity and abundance of Eukaryotic Hyphomycetes group of Fungi in the Flood Prone Alluvial soils between the Noa Dihing and Burhi Dihing rivers of the Upper Brahmaputra Valley. P.I : Dr. Paran Baruah, SPS	DST, New Delhi.	1840000/=
3	Production Technology for Quality SOIBUM and its Value Addition. P.I : Dr. TC Borah, SPS	DST, New Delhi.	2192800/=
4	Development of Super High Strength Proppants. P.I : Dr. DK Dutta, SPS	Oil Industry Development Board, Min. of Petroleum & Natural Gas, Govt. of India, New Delhi.	3350000/=
5	Active tectonics of the meizoseismal region of the 1950 Assam Arunachal earthquake on the frontal part of the Arunachal Himalayas. P.I : Dr. (Ms) RM Devi, (WOS – A)	DST, New Delhi.	1506000/=
6	Studies of Butterfly and Insect – Pest fauna of three watershed areas of Eastern Himalayas. P.I : Dr. Man tu Bhuyan, Sc	DST, New Delhi.	1307900/=
7	Nodulation and nitrogen fixation in non – legume eymbopogon winterianus jowitt. P.I : Dr. SP Saikia, Sc.	DST, New Delhi.	1860000/=

8	Four Motivational Programmes by North – East Institute of Science & Technology (NEIST), Jorhat – 785006 (Assam) P.I : Dr. SP Saikia, SPS	Min of Science & Technology	760000/=
9	Zonal level workshops on Hazards – Minimizing Risk, Maximizing Awareness. P.I : Dr. PC Neog, SPS	Min of Science & Technology	330000/=
10	BOYSCAST Fellowship to Dr. Raju Khan, Scientist IV (2). P.I : Dr. Raju Khan, Sct.	Min of Science & Technology	1609000/=

PROJECT ONGOING

Consultancy

Sl. No.	Project	Funding Agency	Contract value in Rs (Lakhs)
1	Development of Aromatic oil processing Industry in rural area at different villages of Mizoram and to provide Technical Service, Training, etc. P.I : Dr. PR Bhattacharyee, SPS	Directorate of Industries, Govt. of Mizoram, Khatla, Aizawl – 796 001.	786520.00
2	Approach for reclamation of Drill Sites through application of vegetation for environment protection; By NEIST, Jorhat, Assam. P.I : Dr. Neelima Saikia,	ONGCL, Assam Asset, O.T. Complex, Sibasagar.	4789000.00
3	Butterfly population studies in NRL Butterfly valley. P.I : Dr. Mantu Bhuyan, Sc.	Numaligarh Refinery Limited	2855268.00
4	Techno – economic studies for manufacture of Coke Breeze from Konya Coal, Tuensang district, Nagaland. P.I : Dr. BP Baruah, PS	Directorate of Geology & Mining, Govt. of Nagaland, Dimapur.	800000.00
5	Soil investigation of township Phase – III and Wax project at Numaligarh Refinery. P.I : P Barkakati, SPS	Numaligarh Refinery Limited	1752750.00
6	Soil investigation for NCTS, NOBS and WPS at IOCL, Digboi Refinery, Assam. P.I : Mr. P Barkakati, SPS	Indian oil Corporation Limited, AOD, Digboi	691350.00

7	Feasibility studies for manufacturing of soil conditioner from coal and coal waste. P.I : Dr. BP Baruah, PS	Directorate of Geology & Mining, Govt. of Nagaland, Dimapur.	250000.00
8	Preparation of detail project report (DPR) CFC on Knife manufacturing cluster at Karanga, Jorhat, Assam. P.I : Mr. Dipankar Neog, Sc.	Ministry of Micro, Small & Medium Enterprise, Diphu	109000.00

Grant-in-Aid

Sl. No.	Project	Funding Agency	Contract Value in Rs (lakhs)
1	On – line real time seismic network for disaster mitigation in NE India. P.I : Dr. Saurabh Baruah, SPS	North Eastern Council, Shillong – 793001, Govt. of India.	42600000.00
2	Modeling of earthquake source and ground motion in Chedrang Fault and its vicinity through broadband instrumentation: An approach towards the estimation of earthquake hazard in NER, India. P.I : Dr. Saurabh Baruah, SPS	DST, New Delhi.	6611000.00
3	Microbial Diversity and Identification Application of Microorganisms in Agriculture and Allied Sectors (AMAAS). P.I : Dr. Ratul Saikia, SS	National Bureau of Agriculturally Important Microorganisms (NBAIM), Indian Council of Agricultural Res.	4199024.00
4	Diversity and abundance of Eukaryotic Hyphomycetes group of Fungi in the Flood Prone Alluvial soils between the Noa Dihing and Burhi Dihing rivers of the Upper Brahmaputra Valley. P.I : Dr. Paran Baruah, SPS	DST, New Delhi.	1840000.00
5	Survey, Isolation and Preliminary Characterization of Microbial (Bacteria) Populations Southern Brahmaputra Corridor of Assam. P.I : Dr BG Unni, CS	DST, New Delhi.	1657000.00
6	Production Technology for Quality “SOIBUM” and its Value Addition. P.I : Dr TC Borah, SPS	DST, New Delhi.	2192800.00
7	Development of Super High Strength Proppants. P.I : Dr. DK Dutta, CS	Oil Industry Development Board, Min. of Petroleum & Natural Gas, Govt. of Indian, New Delhi.	3350000.00
8	Characterization beneficiation and Utility study of some Graphite deposits from Arunachal Pradesh. P.I : Dr P Sengupta, CS	Min of Mines, Govt. of India, Lok Nayak Bhavan, Khan Maket, New Delhi.	2630000.00

9	Creation of Bioinformatics infrastructure facility (BIF) for the promotion of biology teaching through bioinformatics (BTBI) a scheme of BTISnet. P.I : Dr RL Bezbaruch, SPS	DBT, Bioinformatics Division, New Delhi.	3589000.00
10	Setting up of Non – leather footwear training cum production centre at Tezpur, Assam. P.I : Mr Dipankar Neog, Sc.	Min of HRD, New Delhi.	7000000.00
11	Financial assistance t NEIST, Jorhat towards equipments, Computer Lab. And Renovation of Lab. Space for 58 Under Graduate Colleges affiliated to NER University under NER University under NER FIST Package. P.I : Dr L Nath, CS	DST, New Delhi	293000000.00
12	Active tectonics of the meizoseismal region of the 1950 Assam Arunachal earthquake on the frontal part of the Arunachal Himalaya. P.I : Dr (Ms) RM Devi, (WOS – A)	DST, New Delhi	1506000.00
13	Studies of Butterfly and Insect – Pest fauna of three watershed areas of Eastern Himalayas. P.I : Dr Mantu Bhuyan, Sc	DST, New Delhi	1307900.00
14	Nodulation and nitrogen fixation in non – legume eymbopogon winterianus jowitt. P.I : Dr SP Saikia, Sc	DST, New Delhi	1860000.00
15	Endocrine regulation of reproduction and enhancement of fecundity in the muga silkworm, Antheraea assamensis Helfer. P.I : BG Unni, CS	DST, New Delhi	288000.00
16	Synthesis of biologically potential Azasteroid via steroidal B – ring modifications. P.I : Dr RC Baruah, OS	DST, New Delhi	3494400.00
17	Dimino Diels – Alder & dipolar cycloaddition reactions in the synthesis of carbazoles & carbolines: Synthesis of some new analogues of carbazole and carboline alkaloids and assay for their potential bio. P.I : Dr PJ Bhuyan, SPS	DST, New Delhi	1718600.00
18	Technopreneur Promotion programe (TePP) outreach Centre (TUC). P.I : Mr Dipankar Neog, Sc	Min. of Science & Technology, DSIR, New Delhi.	2000000.00

19	Biodegradable Polymeric Composites based on Cellulose Nanoparticles: An Alternative to Petroleum – Based Polymer Composites. P.I: Dr. SD Baruah, SPS.	Min. of Science & Technology, DST, New Delhi.	3188800.00
20	Chemical investigation, trace element analysis and biological activities of some selected medicinal plants of Manipur. P.I: Dr HB Singh, SS	Deptt of AYUSH, Min. of Health & Family Welfare, Govt. of India, New Delhi.	1000000.00
21	Development of Landslide Monitoring System for North Eastern Regions of India using wireless sensor networking. P.I: Dr. PC Sarmah, SPS.	Min. of Communication & Information.	2911000.00
22	Development of nanostructured membrane for solvent recovery from dilute solution. P.I: Dr (Mrs) Swapnali Hazarika	Min. of Science & Technology	2105200.00
23	Environmentally benign process technology for extraction of Natural Dye of NE Region. P.I: Dr MM Borah, STO (3)	Min. of Environment & Forests	2186100.00
24	Seismotectonics of Northeastern India with special emphasis on estimation of earthquake source parameters and stress tensor inversion. P.I: Ms Sumana Goswami WOS - A	DST, New Delhi	1028000.00
25	Identification of location specific ginger and turmeric varieties, quality planting materials production, insect – pests and disease management, chemical profiling and development of value added product. P.I: Dr PR Bhattacharyee, SPS	DST, New Delhi	1674000.00
26	Method, development, validation and determination of some pharmaceuticals in bulk, dosage form and biological fluid using electroanalytical technique. P.I: Dr Keisham Radha Pyari	Min. of Science & Technology	1642310.00
27	Synthesis of some versalite steroidal molecules: approach to synthesis of hybrid molecules including nine membered D – ring steroids and chemic 7a – substituted derivatives. P. I: Dr(Mrs) Archana Moni Das	Min. of Science & Technology	1215000.00
28	DNA Clubs – DBT – TERI mentoring the Schools of North – East (for 57 Schools in Manipur). P.I : Dr HB Singh, SS	Min. of Science & Technology	21384000.00

29	Bioprospecting of wild edible plant for socio – economic development in Manipur state North Eastern India. P.I : Dr Alka Jain (WOS – A)	Min. of Science & Technology	1960839.00
30	Synthesis of novel pyramiding derivatives of biological significance based on inter and intramolecutar cycloaddition str. P.I: Dr Dipak Prajapati, CS	Min. of Science & Technology	1529500.00
31	Ion specificity on the adsorption of well defined organic acids/ anions at the solid/ water interface. P.I: Dr S Mahiuddin, CS	Min. of Science & Technology	2152000.00
32	Emissions from coal based industries – Development of predictive models (EE – 42) P.I: Dr (Mrs) Puja Khare, Sct	Central Mine Planning & Design Institute Limited	8246000.00
33	Four Motivational Programme by North – East Institute of Science & Technology (NEIST), Jorhat – 758006 (Assam) P.I: Dr PC Neog, SPS	Min. of Science & Technology	760000.00
34	Zonal level Workshops on Hazards – Minimizing Risk, Maximizing Awareness. P.I: Dr PC Neog,SPS	Min. of Science & Technology	330000.00
35	Council of Science and Technology for Rural India Centre at NEIST, Jorhat (CSTRI Centre – NEIST) P.I: Mr Dipankar Neog,Sc	Min. of Science & Technology	3200000.00
36	Herbal Garden inside Kangla Fort, Imphal, Manipur P.I: Dr HB Singh, SS	Department of Archaeology, Govt. of Manipur	616000.00
37	New advances in the integrated management of food processing waste in India and Europe: use of sustainable technologies for the exploitation of by – products info new foods and feeds. P.I: Mr PK Goswami, SC	Min. of Science & Technology	24321000.00
38	Modeling and estimation of strong ground motion parameters aimed at seismic risk reduction. (Indo – Russian joint project) P.I: Dr Saurabh Baruah, SPS	Min. of Science & Technology	816000.00
39	DBT – TWAS Biotechnology Fellowship for Mr Mohamed Abd Allah El – Eneen Mabrouk Gad. P.I: Mr Mohamed Abd Allah Gad	Min. of Science & Technology	471454.00

40	BOYSCAST Fellowship to Dr Raju Khan, Scientist IV (2) P.I: Dr Raju Khan, Sct	Min. of Science & Technology	1609000.00
41	Development of a low cost process for fluoride removal from fluoride contaminated water specific to NE Region for public. P.I: Dr (Mrs) A Goswami, SPS	Min. of Environment & Forests	1538838.00
42	Planned development of protocols for utilization of the tide land for brick manufacture after analysis of geo – consequence. P.I: Dr P Sengupta, CS	Min. of Science & Technology	2471119.00
43	Development of Formulations of microbial Bionoculants with plant growth promotion and Biocontrol Activities for application in rice cultivation in Manipur and Assam. P.I: Dr HP Dekaboruah, SS	Min. of Science & Technology	2815000.00
44	Development of economic process for the drying of Umorok Chilli and Turmeric and their quality evaluation with stability. P.I: Mr PK Goswami, CS	Min. of Food Processing Industries, Pansheel Bhavan, August Kranti Marg, New Delhi.	3104000.00
45	Synthesis of novel composite material using coir fiber for engineering application. P.I: Dr Dipul Kalita, Sc	Min. of Micro, Small & Medium Enterprises.	1721600.00
46	Development of novel antibiotics against Candida albicans – Research Scholarship. P.I : Ms Shruti Talukdar	Lady Tata Memorial Trust, Bombay House, Mumbai – 400 001	277200.00
47	Synthesis of some biological potential steroidal heterocycles by structural modifications. P.I: Dr (Mrs) Jonalee Goswami	Min. of Science & Technology	2080000.00
48	Establishment of Institutional Biotech Hubs (IBThubs) by DBT under special programme for North Eastern States of India. P.I: Dr RL Bezbaruah, SPS	Biotech Consortium India Limited	2700000.00
49	Utilization of plant and waste materials of North East India to a value added product: Environment Friendly Technology. P.I : Dr (Mrs) Archana Moni Das	North East Council	2225000.00
50	To develop a process of non – glossy borer resistant polymeric composition suitable for application on various	Min. of Science & Technology	993200.00

51	Development of technology to produce clean coal from high ash and sulphur Indian coal: Desulphurization of high sulfur NER coals P.I: Dr BP Baruah, PS	Min. of Steel, New Delhi.	19376000.00
52	Development of Molecular markers for evaluation of population Genetic Structure of the <i>Aguilera malaccensis</i> in Northeast India: Implications for its Use and Conservation. P.I: Dr. BS Bhau, SS	Min. of Science & Technology	4593000.00
53	Application of carbon sequestration in the terrestrial eco – system of Assam for long term sustainability. P.I: Dr HP Dekabaruah, SS	Min. of Science & Technology	6037863.00
54	Studies on bio – ecology of <i>Helopeltis theivora</i> and development of a forecasting model of its incidence for effective management. P.I: Dr Mantu Bhuyan, Sc	Min. of Science & Technology	3766000.00
55	Pharmacological study and molecular characterization of some endangered plants of NE India with reference to their adaptogenic activity. P.I: Dr MJ Bordolio, SPS	Min. of Science & Technology	1565000.00
56	Biotechnological interventions for production of androgenic haploids to speed and support breeding of ginger. P.I: Dr BS Bhau, SS	Min. of Science & Technology	1387000.00
57	Genetic diversity of antimicrobial agents producing streptomycetes isolated from protected Forest area of Assam and Arunachal Pradesh. P.I: Dr Ratul Saikia, SS	Min. of Science & Technology	2876000.00
58	Biotech Interventions on Selected Medicinal & Aromatic Plants (MAP) of NER for their effective utilization. P.I: Dr PR Bhattacharyee, SPS	Min. of Science & Technology	7840000.00
59	Yield enhancement strategies for production of therapeutic compounds by cell and tissue cultures of <i>Tinospora cordifolia</i> (willd.) Miers ex Hook. F. & Thom's. P.I: Dr BS Bhau, SS	Min. of Science & Technology	1297000.00
60	Domino prins cyclization reactions: Synthesis of novel highly functionalized tetrahydropyran piperidine derivatives. P.I: Dr Gakul Baishya, Sc	Min. of Science & Technology	2420000.00

61	Active tectonic and paleoseismic studies, using geophysical parameters, along the mountain frontal part of Eastern Syntaxial Bend, Lower Dibang Valley and Lohit Dist, Arunachal Himalaya. P.I: Dr. RM Devi, (WOS – A)	Min. of Science & Technology	2000000.00
62	Genetic Improvement of <i>Jatropha curcas</i> for Adaptability and oil Yield (New Millennium Indian Technology Leadership Initiative Scheme, NMITLI). P.I: SP Saikia, Sc	TNBD Division, CSIR, New Delhi.	7114000.00
63	Novel DPP IV inhibitors for the treatment of Diabetes. P.I: Dr NC Baruah, Sc G	CSIR Hq, New Delhi.	8100000.00

PROCESS RELEASED TO INDUSTRY

Process	Party	Licensing Amount
Agro-technology on Citronella	Mr Pabitra Gogoi, a Govt. registered Contractor and Order Supplier, P.O Sripuria, AOC Road, Tinsukia- 786145.	0.30
Mushroom spawn production technology	Mr Basanta Chiring Phukan, Chengeli Chuk, P.O: Birina Sayek, Jorhat – 785632.	0.10
	North Eastern Small Scale Industries Association (NESSIA), District Freedom Fighters Building, K K Handique Path, Near Circuit House, Jorhat, Assam	Nil
Low Dust Chalk Pencil	North Eastern Small Scale Industries Association (NESSIA), District Freedom Fighters' Building, K K Handique Path, Near Circuit House, Jorhat, Assam	Nil
Liquid Deodorant Cleaner	North Eastern Small Scale Industries Association (NESSIA), District Freedom Fighters' Building, K K Handique Path, Near Circuit House, Jorhat, Assam	Nil
	Tripartite agreement between CSIR-NEIST, NRDC- New Delhi, and Sh Rajeev Kumar M/s Jony Bony Organic Chemicals, PO Shahpur, Shiv Colony, Near Ice Factory, Manglapuri Mandi, Muzzafarnagar 251318 (UP)	0.28