

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

**CSIR-NEIST Celebrated 5<sup>th</sup> International Yoga Day**

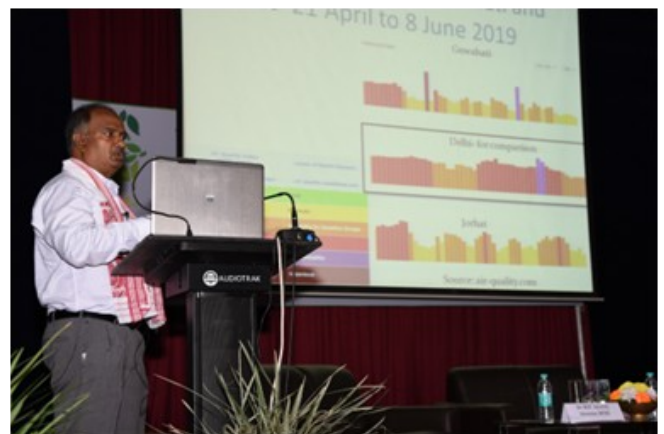


Shri. Prabin Kumar Goswami, Founder Principal of Jorhat Yogabigyan Mahavidyalaya delivering lecture on “Yoga for Healthy Life” on the occasion of 5th International Yoga Day celebrated at

CSIR-NEIST celebrated the 5<sup>th</sup> edition of International Yoga Day with a special programme at its premise on 21 June 2019. Yoga is an ancient physical, mental and spiritual practice that originated in India. The word ‘yoga’ derives from Sanskrit and means to join or to unite, symbolizing the union of body and consciousness. Recognizing its universal appeal, on 11 December 2014, the United Nations proclaimed 21 June as the International Day of Yoga. The International Day of Yoga aims to raise awareness worldwide of the many benefits of practicing yoga. In tune with the significance of the day, a function was held at Dr J.N Auditorium, which was attended by CSIR-NEIST staff in large number. Shri Probin Kumar Goswami, Founder Principal of Jorhat Yogabigyan Mahavidyalaya, Jorhat graced the occasion as Chief Guest and delivered a motivational lecture on “Yoga for Healthy Life”. He mentioned that Hon’ble Prime Minister, Shri Narendra Modi is on a mission to spread awareness to the whole world about the importance of Yoga in everyone’s life. Talking about the health benefits of Yoga, Shri Goswami said

that he never visited any doctors or took medicines after performing yoga for last 30-35 years. In the end Shri Goswami said that performing yoga for 30-40 minutes every day can boost or improve the immune system which could result in happy, healthy and positive life. On the auspicious occasion, a Yoga Class was also arranged at CSIR-NEIST Staff Club at 6.00 PM onwards for all the staff members & their family members and Students.

**Awareness on Environmental Care programme held at CSIR-NEIST**



Dr RSC Jayaraj, Director, RFRI, Jorhat, delivering his talk on the occasion.

On the occasion of World Environment Day 2019, CSIR-NEIST in association with CSIR Pensioners’ Association NER Centre organized a special programme on Environmental Care on 10 June 2019 at Dr J N Baruah Auditorium, CSIR-NEIST. The meeting was largely attended by NEIST fraternity, invited guests, invited teachers and students from Chintamoni Adarsha Shishu Niketan, Da-gaon, Jorhat and Sankardev Bidya Niketan, Jorhat, besides members of the Pensioners Association, NE Centre. Convened under the global theme, “Air Pollution”, the function was graced by Dr RSC Jayaraj, Director, RFRI, Jorhat as Chief Guest while Ms Davinder

*Falling down is an accident; Staying down is a choice.*

Anonymous

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Ms Davinder Suman, DFO, Jorhat, planting a sapling in presence of Director RFRI, Jorhat and Director, CSIR-NEIST, Jorhat.

Suman, DFO, Jorhat was present as Guest of Honour. Dr G Narahari Sastry, Director, CSIR-NEIST, Jorhat, welcomed the gathering and said that Environmental Care is one of the focus area of activities CSIR-NEIST is working and the region being rich in biodiversity and natural resources provides a greater responsibility and opportunities to an organization like NEIST. Dr RC Baruah, Emeritus Scientist, CSIR-NEIST, briefed about the programme. Dr SC Nath, Retired scientists and President, CSIR-NEIST Pensioner's Welfare Association, NE Centre, briefed about the organization and its activities. Dr Jayaraj in his address deliberated on the role of common man in conserving the environment and emphasized on various small steps one can follow in day to day life to contribute to a much cleaner environment. Ms Davinder Suman, in her address informed about the importance of plants and trees and their role to keep the environment balanced and habitable. Before the meeting a plantation programme was also held at the institute's campus. Both the Chief Guest and the Guest of Honour took part in that programme. Plant saplings were also distributed on the occasion among the school students. The function concluded with vote of thanks proposed by Dr SP Saikia, SrScientist, CSIR-NEIST.

## CSIR-NEIST distributes 'Herbal Anti-Arthritis' product to the needy and down-trodden people



Dr G Narahari Sastry, Director, CSIR-NEIST distributing Herbal Anti-Arthritis product to the beneficiaries at Anupam Bhuyan ME School (top) and Amaravati Age Old Home (above).

Under the leadership of Dr G Narahari Sastry, Director, CSIR-NEIST, the healthcare product Herbal Anti-Arthritis Ointment developed by the Institute was distributed free of cost to the local people of Jorhat who are economically very poor on 11 June 2019. Herbal Anti-Arthritis is a unique product for arthritic pain which has already received appreciation from people across the country. Dr G Narahari Sastry along with a team of scientists and technical officers from the Institute visited Anupam Bhuyan ME School situated at Pokimuri Habi Gaon near Gate No. 4 to distribute the Herbal Anti-Arthritis Ointment and

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And interacted with the students & staff. Addressing to them, Dr Sastry said that the products developed by CSIR-NEIST are for the benefits of the people. He told that often affordability is a question for the poor people to buy healthcare products. Dr Sastry also said that CSIR-NEIST will distribute its own product free of cost to the people of nearby areas so that they are benefited. Dr Mantu Bhuyan, Scientist of the institute prescribed the procedure of using the ointment. Dr Jatin Kalita, Head, Research Planning & Business Development Division, CSIR-NEIST briefed the various societal activities of the institute. Later, the team visited Amaravati Age Old Home situated in Potia Gaon, Jorhat. The Director, CSIR-NEIST interacted with the inhabitants of the old age home and distributed Herbal Anti-Arthritis to them as well as villagers and well-wishers. Dr Sastry highlighted the Indian heritage of traditional medicine including some of the indigenous systems of medicine like Ayurveda, Siddha and Unani.

### Prof Patrick Y. Lam, Distinguished Professor, Baruch S Blumberg Institute, Pennsylvania, USA visited CSIR-NEIST



Prof Patrick Y Lam delivering his Lecture entitled, "Discovery Eliquis/Apixaban, a Novel Factor Xa Anticoagulant and Chan-lam Coupling Reaction" at CSIR-NEIST.

Prof Patrick Y Lam, Distinguished Professor, Baruch S Blumberg Institute; Pennsylvania, USA visited CSIR-NEIST and delivered a lecture on "Discovery Eliquis/Apixaban, a Novel Factor Xa Anticoagulant and Chan-lam Coupling Reaction" on 27 June, 2019. Prof Lam is internationally known as the co-discoverer of the powerful Chan-Lam Coupling Reaction. Chan-Lam Coupling reaction is currently the most powerful Name Reaction discovered by Chinese. In addition, at the molecular recognition frontier, the Prof Lam and his team pioneered the first rational use of halogen bonding in structure-based drug design.

### CSIR-NEIST transferred improved variety of Citronella (Jor Lab C-5) for commercial cultivation & processing

CSIR-NEIST transferred its agro-technology package on improved variety of Citronella (Jor Lab C-5) to Mr Takum Miza, East Siang district, Arunachal Pradesh on 26 June 2019. Jor Lab C-5 has higher oil yield of 1.2% essential oil as compared to existing varieties which yields 0.8-0.9% essential oil. Later on the day, Mr Miza was provided demonstration of the cultivation practice and its oil processing under the supervision of Dr Mohan Lal, Scientist & technology team leader.



Dr H P Dekabaruah, Scientist-in-charge, CSIR-NEIST exchanging the Agreement for transfer of improved variety of Citronella (Jor Lab C-5) to Mr Mr Takum Miza on 26 June 2019 in presence of technology team members and business development team.

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## CSIR-NEIST participated at North East Conclave 2019

CSIR-NEIST participated in North East Conclave 2019 on "Transforming North East India through Science & Technology" organized by Institute of Bioresources & Sustainable Development (IBSD) at Shillong, Meghalaya during 28-29 June 2019. Dr G Narahari Sastry, Director, CSIR-NEIST participated as one of the panellists in preparing road map and policy recommendations for North East.

### NEIST Science Forum Talk held

- **Speaker:** Dr Leon Raj Scientist, ESTD

**Topic:** Issues of design and execution of deep excavation for hydro electric power project at Munnar, designed by CSIR NEIST.

**Date:** 7 June 2019

- **Speaker:** Dr Debasis D Mohanty, Scientist, GSTD

**Topic:** Unmasking the Earth: A tale of 4.6 billion years

**Date:** 14 June 2019

- **Speaker:** Ms Padma Sangmu Bomzon, Junior Research Fellow

**Topic:** Population and Environment - The Anthropocene

**Date:** 28 June 2019

### Papers published

#### In International Peer Reviewed Journals

- Ivanova Mariia N, Grayfer E D, Plotnikova E

E, Kibis L S, Darabdhara G, Boruah P K, Das M R, Fedorov V E: Pt-Decorated Boron Nitride Nanosheets as Artificial Nanozyme for Detection of Dopamine, *ACS Applied Materials Interfaces*, 2019, 11 p: 22102-22112. **Highest Impact factor Paper (IF-8.456).**

- Das V, Bhattacharya S, Chikkaputtaiah C, Hazra S, Pal M: The basics of epithelial-mesenchymal transition (EMT): A study from a structure, dynamics, and functional perspective, *Journal of Cellular Physiology*, 2019, 234 p: 14535-14555.
- Borra S, Borkotoky L, Newar U D, Kalwar A, Das B, Maurya R A: Visible light triggered photo-decomposition of vinyl azides to (E)-stilbene derivatives via 1,2-acyl migration+, *Organic Biomolecular Chemistry*, 2019, 17 p: 5971-5981.
- Bordoloi J, Ozah D, Bora T, Kalita J, Manna P: Gamma-glutamyl carboxylated Gas 6 mediates the beneficial effect of vitamin K on lowering hyperlipidemia via regulating the AMPK/SREBP1/PPAR $\alpha$  signaling cascade of lipid metabolism, *Journal of Nutritional Biochemistry*, 2019, 70 p: 174-184.
- Swaidan A, Borthakur P, Boruah P K, Das M R, Barras A, Hamieh S, Toufaily J, Hamieh T, Szunerits S, Boukherroub R: A facile preparation of CuS-BSA nanocomposite as enzyme mimics: Application for selective and sensitive sensing of Cr(VI) ions, *Sensors and Actuators B: Chemical*, 2019, 294, p: 253-262.