



North-East Research Conclave

Sustainable Science and Technology

May 20-22, 2022

Organized by

Indian Institute of Technology Guwahati
&
Department of Education, Govt. of Assam

Venue: Indian Institute of Technology Guwahati



North-East

Research Conclave

Research and Development is one of the foundational pillars for holistic growth of the country specially for a fast-developing nation like India. The dynamicity of our nation is a collaborative effort of all the states. However, in recent years the North Eastern states are coming to the limelight for excellent laurels in innovation and collaborations in the field of science & technology. The North-Eastern Region (NER) comprising the Seven Sister States along with its only brother Sikkim, is one of the most decorated jewels in the crown of the Nation. Apart from being one of the most strategically important regions of the country, the region hosts the reservoir of extensive natural resources coupled with its exotic beauty. It presents itself as one of the uncharted horizons full of enchanting opportunities and sturdy potential, but simultaneously offers a plethora of unique challenges.

Overcoming the challenges is of utmost priority for exponential developmental growth of this region for which many educational and research organizations, has been engaged in cutting-edge research. Therefore, there urgent need to bring all the research, innovation ideas and most importantly, the human resource onto a common platform.

Indian Institute of Technology Guwahati, since its inception, has steadily grown to be the ambassador of Research and Development in North-Eastern India. The institute is playing the key role in providing leadership in translational research and making the North East to achieve a prominent position in the global platform

As India marks 75 years of independence and celebrates Azadi Ka Amrit Mahotsav, Indian Institute of Technology Guwahati proposes to organize "The North-Eastern Research Conclave".

The Mission of the proposed Conclave is:

1. To showcase the best R&D activities from all the educational and research institutions across the states of North-East India.
2. To create a common interface for interaction of academia and industry in North-East India.
3. To create an environment, conducive to development of local indigenous technologies and innovations, creating the scope and laying the foundation for entrepreneurship.
4. To agglomerate a vast talent pool, for promotion of Translational Research.
5. To help the country achieve the deliverables of the Sustainable Development Goals.

The "The North-Eastern Research Conclave" is the call of the hour and IIT Guwahati is committed to successfully organize the event to boost the R&D activities in North-East India, which is pivotal for its growth in the coming future.



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The event will be held on the sprawling campus of Indian Institute of Technology Guwahati (IITG) which is situated on the banks of the majestic Brahmaputra River along with other Centrally funded Technical Institutes.

Following societally relevance research areas will be focused during NE- Research Conclave:

- Agri and Rural, Cultural concepts, Technological Interventions
- Food Processing, preservation and sustainable utilization of resources
- Value-Added Products from Biomass/Bio-resource and Waste
- Natural Disaster Management Technologies
- Renewable and non-renewable energy resources
- Advanced manufacturing, cutting edge Technologies
- Health Care industries
- Electronic manufacturing clusters
- Tourism and eco-park development strategies
- Indian Knowledge systems focused towards NER
- Artificial Intelligence and Data science-based interventions
- Efficient Management of Natural Resources
- Other allied and focused sectors of NER

Proposed Activities for Three Day North Research Conclave:

1. Research & Innovation exhibition by North East Researchers
2. Industry Start-up show-case related to North East
3. Interactive session between Industry and Researchers
4. Eminent talks by Policy makers, Industrialist and Academicians.

Target Participants for Three Day North Research Conclave:

1. Ministries/Departments of Govt. of India & North East State Govt.
2. Research Councils, Organizations
3. Industries, PSUs, Start-ups & Private sector companies
4. Laboratories & Technical Institutes of North East
5. Educational Institutes and Colleges of North East (Universities/Institutes of: Assam, Tripura, Mizoram, Sikkim, Nagaland, Meghalaya, Manipur and Other Central Organizations of Research/Higher Education)



North-East

Research Conclave

Programme:

Day

Event

1. Inauguration of North-East Research Conclave
1. Patron(s) Meeting with Head of the Institutions/Vice Chancellors for Sensitization of R&D Ecosystem in the North Eastern states.
1. Head of the Institutions Meet for Enhancement of North-East Research Infrastructure
1. Inauguration of North-East Research & Innovation Exhibition
1. Plenary & Motivational R&D Talks by Acclaimed Researchers and Industrialists
1. Parallel Technical Sessions
Speakers: Research Scholars and Faculty members from all Universities and Technical Institutes of North-East India and East-India.
1. Cultural Program
2. Brain Storming Sessions & Panel Discussions
(Panellist: Directors/Vice Chancellors/ Senior Government Officials/Officials from Funding agencies)
Theme 1: Handholding Mechanism for Sustained Research & Innovations Among North-East Institutions
Theme 2: Harnessing Traditional Knowledge of North Eastern States
Theme 3: Conservation of Biodiversity through R&D Interventions
Theme 4: North East Disaster Management & R&D Interventions
Theme 5: Government R&D Policies for North Eastern States
Theme 6: A Road Map for Standardisation of Grass root Innovations through R&D practices
2. Parallel Technical Sessions Contd.
2. North-East Research & Innovation Exhibition Contd.
2. Industry- Academia R&D Session
Dedicated Session on North-East Industry-Academia R&D Ecosystem & related Policies;
Speakers: Top Industry Officials & Policy Makers
3. Session on Start Up & Perspective Entrepreneurs of North-East States
3. Open Floor Meeting of NE-Grass Root Innovators, Perspective Entrepreneurs with Government Officials, Head of the Institutions
3. PRESS Meet to convey what are the achieved milestones of the Conclave and how this model can work towards bettering and strengthening ties between Institutions be they academic, industry or policy.
3. Valedictory Session of North-East Research Conclave



North-East

Research Conclave

Chief Patron

Hon'ble Minister of Education **Shri. Dharmendra Pradhan**

Patron(s)

Hon'ble minister (s) of State for Education, **Dr. Rajkumar Ranjan Singh**

Hon'ble minister (s) of State for Education, **Dr. Subhas Sarkar**

Hon'ble minister (s) of State for Education, **Smt. Annpurna Devi**

Hon'ble Minister of DoNER **Shri. G. Kishan Reddy**

Hon'ble Chief Minister of Assam **Shri. Himanta Biswa Sarma**

Hon'ble Minister of Education, Assam **Shri. Ranoj Pegu**

Advisory Committee

Secretary, Ministry of DoNER **Shri. Lok Ranjan,**

Secretary, NEC council **Shri. K. Moses Chalai,**

Secretary, Higher Education, Govt. of Assam, **Shri. B Kalyan Chakravarthi**

Secretary, Govt. of Arunachal Pradesh, **Smt. Niharika Rai**

Secretary, Govt. of Mizoram, Higher Education, **Shri. Pi Esther Lalruatkimi**

Secretary, Govt. of Meghalaya, Education, **Shri. Ambrose Ch. Marak**

Secretary, Govt. of Manipur, Education(s), **Shri. P. K. Singh**

Secretary, Govt. of Nagaland, Higher Education, **Shri. Honje Konyak**

Secretary, Govt. of Sikkim, Education, **Shri. G.P.Upadhyaya**

Secretary, Govt. of Tripura, Education, **Shri. Brijesh Pandey**

Chief Coordinator, North East Research & Development Fair

Director, IIT Guwahati **Prof. T. G. Sitharam**

Co- Coordinators, North East Research & Development Fair

Director, IASST, Guwahati, **Dr. Ashis K. Mukherjee**

Director, NIPER Guwahati, **Dr. USN Murty**

Director, NEIST, Jorhat, **Dr. Garikapati Narahari Sastry**

Director, NIT Silchar, **Prof. Sivaji Bandyopadhyay**

Director, NIT Arunachal Pradesh, **Prof. Pinakeswar Mahanta**

Director, NIT Agartala, **Prof. H. K. Sharma**

Director, NIT Meghalaya, **Prof. Bibhuti Bhusan Biswal**

Director, NIT Mizoram, **Prof. Saibal Chatterjee**

Director, NIT Manipur, **Dr. Goutam Sutradhar**

Director, NIT Nagaland, **Dr. S. Venugopal**

Director, NIT Sikkim, **Prof. Mahesh Chandra Govil**

VC, Tezpur University, **Professor Vinod Kumar Jain**

VC, Mizoram University, Mizoram, **Prof. K.R.S. Sambasiva Rao**

VC, NEHU, Shillong, Meghalaya, **Prof. Prabha Shankar Shukla**

VC, Central University of Sikkim, Sikkim, **Prof. Avinash Khare**

VC, Rajiv Gandhi University, Itanagar, Arunachal Pradesh, **Prof. Saket Kushwaha**

VC, Tripura University, Tripura, **Prof. Ganga Prasad Prasain**

VC, Nagaland University, Nagaland, **Prof. Pardeshi Lal**

VC, Central Agricultural University, Imphal, **Dr. Anupam Mishra**



North-East Research Conclave

Local Organizing Committee (IITG)

Prof. T. G. Sitharam, Director
 Prof. Vimal Katiyar, Dean R&D
 Prof. Subhendu Sekhar Bag, Assoc. Dean, R&D
 Prof. P. Muthukumar, Assoc. Dean, II&SI
 Prof. Hemant B. Kaushik, ADOAA-OP
 Prof. Mihir Kumar Purkait, Dean, AER
 Prof. Achalkumar A. Sudhakar, Dean, OEP
 Prof. U. S. Dixit, HOC-CIKS
 Prof. T. V. Bharat, Civil Engineering
 Prof. S. N. Joshi, Mechanical Engineering
 Prof. A. Perumal, HoD-Physics
 Prof. Ramagopal V. S. Uppaluri, Chemical Engineering
 Dr. Bithiah G. Jaganathan, Faculty Coordinator, CCD
 Dr. Mahima Arrawatia, Vice-Chair HAB (Girls)
 Dr. Archana M. Nair, Civil Engineering
 Dr. John Jose, CSE
 Dr. Akshai Kumar Alape Seetharam, Chemistry
 Mr. Prakash Hazarika, HOS Administration

Chairman
 Convener
 Co-Convener
 Member
 Member
 Member
 Member
 Member
 Member
 Member
 Member
 Member
 Member
 Member
 Member

Local Organizing Committee (IITG)



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