

North-East Research Conclave

Sustainable Science and Technology May 20-22, 2022

Organized by

Indian Institute of Technology Guwahati,

&

Department of Education, Government of Assam

A Report on the Participation in the

North-East Research Conclave: Sustainable Science and Technology

May 20-22 2022

Rajiv Gandhi University in its pursuit of excellence in research and innovation participated in the North-East Research Conclave: Sustainable Science and Technology held from May 20-22, 2022 at the Indian Institute of Guwahati on invitation from the organising institute IIT Guwahati and Department of Education, Govt. of Assam. The "The North-East Research Conclave" was organized to boost the R&D activities in North-East India, which is pivotal for its growth in the future. Prof. Saket Kushwaha, Vice-Chancellor, Rajiv Gandhi University acted as the Co-Coordinator of the conclave.

The conclave was held under the Chief Patronship of Shri Dharmendra Pradhan, Hon'ble Union Minister for Education and Skill Development & Entrepreneurship,. More than 300 institutions/Universities/Colleges/schools from all the eight states of North-East India participated in the conclave held in the IIT Guwahati Campus. More than 100 industries and start-ups from the region also actively participated.

The Mission of the Conclave were

- 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 research interface for interaction of academia and industry in North-East India.
- 3. To create an environment, conducive to the development of local indigenous technologies and innovations, creating the scope and laying the foundation for entrepreneurship.
- 4. To agglomerate a vast talent pool, for the promotion of Translational Research.
- 5. To help the country achieve the deliverables of the Sustainable Development Goals.

The activities held in the three-day Conclave are

- 1. Research & Innovation exhibition by North East Researchers/Industries.
- 2. Industry Start-up showcase related to North East region.
- 3. Interactive session between Industry and Researchers.
- 4. Eminent talks by Policy makers, Industrialists and Academicians.
- 5. Strategic panel discussion on various challenges/opportunities in R&D sector by Eminent Dignitaries.
- 6. Sensitization of Research Ethos among school students to pave the future R&D road map of North East region.
- 7. Women research and Entrepreneurial summit with award distribution.

The conclave provided a unique platform to bring together the leading researchers from academia, R7D laboratories, industries and Government policymakers across North-Eastern India with an aim to develop a strong research-based consortium to pave the NE research ecosystem. The conclave enabled the participants to devise policies and ways and means to harness the resources of NER, industrial and economic growth for faster and improvised agriculture in NER, processing and production of various functionalised sectors of NER through the possible intervention of stakeholders including industry, academia, entrepreneurs, start-ups and policymakers.

The following nominated members represented the University in the NERC-2022 conclave. The team was led by the Vice-Chancellor of Rajiv Gandhi University Prof. Saket Kushwaha.

1. Prof. Saket Kushwaha Vice-Chancellor, RGU

2. Prof. R. C. Parida Director, IQAC & Dean, Faculty of Commerce & Management and

Faculty of Law, RGU

Prof. Sumpam Tangjang
 Prof. Sanjeev Kumar
 Dean, Faculty of Life Sciences, RGU
 Dean, Faculty of Basic Sciences, RGU
 Dr. Rajesh Chakrabarty
 Head, Department of Chemistry, RGU

The conclave NERC-2022 was inaugurated by Shri Dharmendra Pradhan, the Union Minister for Education and Skill Development & Entrepreneurship. The Hon'ble Chief Minister of Assam, Shri Himanta Biswa Sarma and a host of other ministers from NER, dignitaries including the Vice-Chancellors of the Universities of NER, scientists, researchers, entrepreneurs, policymakers and most importantly the School Children participated in the conclave.

The hon'ble Union Minister for Education and Skill Development & Entrepreneurship, Shri Dharmendra Pradhan in his remarks stated that the conclave will enhance the ties among industry, academics, and policymakers, as well as re-energize the research, start-up, and entrepreneurial ecosystems in the resource-rich northeast states in particular and the country as a whole.

The aims of the conclave were to bring together under one umbrella the students, entrepreneurs, investors, industry professionals, scientists, and faculty to Meet, Interact, Connect, and Exchange innovative ideas, and knowledge and build new collaborations with a special focus on the North-Eastern States. It was also a good opportunity to exchange innovative ideas, and knowledge sharing, showcase product/services collaborate and network and excellent re-education opportunities. One of the unique features of the conclave was dedicated networking schedules, mentoring sessions, and showcasing of innovations that provide new entrepreneurs and students investment opportunities for product development and scaling up.

The visiting team had several rounds of interactions with various universities, institutes and industries. The possibility of collaboration in the following areas was actively explored:

- 1. Development of joint research activities of mutual interest and expertise.
- 2. Participating in multi-institutional research projects as a part of a consortium with other Universities/Institutions.
- 3. To work collaboratively towards strengthening and streamlining research in science and technology development, innovation and entrepreneurship ecosystem.
- 4. Training and development of research students including possibilities of partial sponsorship for PhD students.
- 5. Signing of MoU with the Universities and institutes
- 6. Any other activities viewed to be potentially beneficial for both the institutions.



Inaugural Session of NERC 2022: (L-R) Prof. TG Sitharaman (Director IITG), Shri Rameswar Teli (Union Minister of State, Ministry of Petroleum & Natural Gas and Ministry of Labour & Employment), Shri Dr. Subhas Sarkar (Union Minister of State, Ministry of Education), Shri Himanta Biswa Sarma (Chief Minister of Assam), Shri Dharmendra Pradhan (Union Minister, Ministry of Education and Ministry of Skill Development & Entrepreneurship), Shri Sarbananda Sonowal (Union Minister, Ministry of Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy (AYUSH)), Shri Ranoj Pegu (Minister of Education, Govt. of Assam), Shri Keshab Mahanata (Minister of Health and Family Welfare, Govt. of Assam), Shri Karma Loday Bhutia (Minister of Forest & Environment, Mines & Geology and Science & Technology, Govt of Sikkim)



Inaugural Session of NERC 2022: (L-R) Prof. Saket Kushwaha (Vice-Chancellor, RGU), Prof. R. C. Parida (Director, IQAC & Dean, Faculty of Commerce& Management and Faculty of Law, RGU), Prof. Sumpam Tangjang (Dean, Faculty of Life Sciences, RGU)



Inaugural Session of NERC 2022: (L-R) Dr. Rajesh Chakrabarty (Head, Department of Chemistry, RGU), Prof. Sumpam Tangjang (Dean, Faculty of Life Sciences, RGU), Prof. R. C. Parida (Director, IQAC & Dean, Faculty of Commerce& Management and Faculty of Law, RGU), Prof. Sanjeev Kumar (Dean, Faculty of Basic Sciences, RGU)

Firefox about:blank



1 of 1 27-04-2022, 07:52



North-East Research Conclave

Towards - Sustainable Science and Technology

May 20-22, 2022

Assam Biotech Conclave-2022

Organized by

Indian Institute of Technology Guwahati,

Science, Technology and Climate Change Dept. & Dept. of Education, Govt. of Assam

Venue: Indian Institute of Technology Guwahati

CONCLAVE AT A GLANCE



Total participants

5000+



Oral Presentations

500+



Participating
Institutions/Colleges/Schools

300+



Poster Presentations

1000+



Participating Industries/Start-Ups

100+



Research & Innovation Exhibitions

300+

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 research 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-East 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 future.

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.

Technical/Scientific Deliberations on:

- Advanced Functional Materials
- Advanced Semiconductors and Quantum Materials
- Agro & Food Processing Technologies
- Artificial Intelligence, Data Science based R&D Interventions
- Conservation of Biodiversity of North Eastern States
- Disaster Management
- Healthcare Research & Related Technologies
- Innovative Design for Societal Needs
- Low Cost Manufacturing Technologies
- Policies for Research & Innovations
- Research and Innovation for Sustainable Development Goals
- Sustainable Environment
- Sustainable Energy Generation and Storage
- Sustainable Transportations and Urban Development
- Teaching Learning Technologies
- Technologies for Rural Development



Proposed Activities for Three Day North-East Research Conclave:

- 1. Research & Innovation exhibition by North East Researchers/Industries.
- 2. Industry Start-up show-case related to North East region.
- 3. Interactive session between Industry and Researchers.
- 4. Eminent talks by Policy makers, Industrialists and Academicians.
- 5. Strategic panel discussion on various challenges/opportunities in R&D sector by Eminent Dignitaries.
- 6. Sensitization of Research Ethos among school students to pave the future R&D road map of North East region.
- 7. Women research and Entrepreneurial summit with award distribution.

Target Participants for Three Day North-East Research Conclave:

- 1. Educational Institutes/Schools/Colleges of North East (Universities/Institutes of: Assam, Arunachal Pradesh, Tripura, Mizoram, Sikkim, Nagaland, Manipur, Meghalaya)
- 2. Ministries/Departments of Government of India & North East State Government.
- 3. Research Councils, Policy Organizations
- 4. Industries, PSUs, Start-ups & Private sector companies
- 5. National Research Laboratories & Technical Institutes of North East region



Programme:

DAY 1

- Inauguration of North-East Research Conclave
- Inauguration of North-East Research & Innovation Exhibition, Media Interaction
- Patron(s) Meeting with Head of the Institutions/Vice Chancellor's/Director's for Sensitization of R&D Ecosystem in the North Eastern states.
- Head of the Institutions Meet for Enhancement of North-East Research Infrastructure
- Plenary & Motivational R&D Talks by Acclaimed Researchers and Industrialists
- Parallel Technical Sessions, Poster Display, Visit of School Children
- Speakers: Research Scholars and Faculty members from all Universities and Technical Institutes of North-East India and East-India.
- Young Scientist Global Experiment Session for School Students.
- School Teachers Training Session to Sensitize innovation Culture in Schools.
- **Cultural Program**
- Inauguration of North-East Research Conclave.
- Brain Storming Sessions & Panel Discussions (Panellist: Directors/Vice Chancellors
 /Senior Government /Schools Officials/Officials from Funding agencies).

DAY 2

- 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 Standardization of Grass-root Innovations through R&D practices.
- Parallel Technical Sessions, Poster Display Contd...
- North-East Research & Innovation Exhibition Contd...
- Industry- Academia R&D Session-Dedicated Session on North-East Industry-Academia R&D Ecosystem & related Policies; Speakers: Top Industry Officials & Policy Makers.
- Seminar on Promoting Research related to National Security.
- Dedicated Session for Boosting Common Research and Technology Framework for MSME's
- Session on Start Up & Prospective Entrepreneurs of North-East States
- DAY 3
- Open Floor Meeting of NE-Grass Root Innovators, Perspective Entrepreneurs with Government Officials, Head of the Institutions
- 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.
- Valedictory Session of North-East Research Conclave

Assam Biotech Conclave 2022

Assam Biotech Conclave 2022 - the third edition is all set to bringing together the Biotech Entrepreneurs, industry leaders, researchers, academicians, Government Representatives, policy makers, innovators and investors together on one platform to explore the possibilities of Biotechnology in North East India and to discuss the new opportunities in the transition. The Conclave also intends to put forward the facilities offered by Guwahati Biotech Park wherein prospective Biotech ventures may avail incentives/subsidies etc. through the provisions laid under the Biotechnology Policy for the State of Assam.

Dedicated Sessions on:

- Young Innovative Entrepreneur Award
- EXPO Product & Concept display of Startups
- Young Minds Challenge
- Website Launch Biotechnology policy for the State of Assam
- Investors Pitch Raise Money for your Startup
- Interactive Sessions
- Panel Discussions
- Startup Yatra
- Assam Bio-Innovation Fellowships









North-East Research Conclave Sustainable Science and Technology

Assam Biotech Conclave-2022



TO **IGNITE** YOUNG MINDS **ENTREPRENEURS**

ABOUT THE EVENTS

North- East Research Conclave (NERC-2022)

- A collaborative effort of all the North Eastern Region, comprising of the seven sisters and their only brother Sikkim.
- It brings all the research and innovation ideas along with the human resources onto a single platform.

Assam Biotech Conclave (ABC-2022)

- A single platform for bringing together the biotech entrepreneurs, industry leaers, researchers, government representatives innovators, and investors to explore the possibilities of Biotechnology in North-East India.
- It is also going to put forward the facilities offered by Guwahati Biotech Park along with various opportunities for prospective Biotech ventures.

EXCITING KITS & CERTIFICATES FROM RSC (LONDON) & ACS (U.S.A.)



SOME MAIN EVENTS OF THE CONCLAVE INCLUDES:

Live Experiment Demonstrations & Training for School Students.



Teachers Training Program.

Young Minds Challenge.



Expo - Product and Concept Display of Start-Ups. Also includes Prize Money for Position Holders, 1st: 50,000 INR, 2nd: 30,000 INR, and 3rd: 25,000 INR.



Investors Pitch: Raise Money for Your Start-Ups.

Young Innovative Entrepreneur Award.



Parallel Technical Sessions and Poster Display.

Plenary & Motivational Talks.



Assam Bioinnovation Fellowship: Financial support amounting to INR 5 Lakhs will be provided.



Dedicated Booths for Showcasing the School's Innovation Prototypes.

For More Information Visit: https://iitg.ac.in/rnd/nerc/













(in @SCHOOL/IITG









North-East

TENTATIVE SUPPORTING ORGANIZATIONS



Ministry of Education





Department of Tourism







Government of Mizoram



GOVERNMENT OF MANIPUR



GOVERNMENT OF ARUNACHAL PRADESH



Government of Tripura



Department of Science & Technology



Department Of Fertilizers Ministry of Chemicals and Fertilizers **Government of India**



Ministry of Environment, Forest & Climate Change



DEPARTMENT OF BIOTECHNOLOGY Ministry of Science & Technology Government of India









भारी उद्योग मंत्रालय MINISTRY OF **HEAVY INDUSTRIES**





पर्यटन मंत्रालय MINISTRY OF **TOURISM**































- & more

REPRESENTATIVE INDUSTRY PARTNERS











ऑयल इंडिया लिमिटेड **Oil India Limited** & more

REPRESENTATIVE ACADEMIC PARTNERS









North-East Research Conclave

Towards - Sustainable Science & Technology

ASSAM BIOTECH CONCLAVE | MAY 20th-22nd, 2022

Venue: IIT Guwahati

















https://twitter.com/IITGuwahati/

https://www.linkedin.com/school/iitg/

https://www.instagram.com/iitgwt/

Contact: Convener, NERC-2022

Prof. Vimal Katiyar, Dean, R&D

3rd Floor, Research Building, IIT Guwahati

E-mail: nerc@iitg.ac.in | www.iitg.ac.in/rnd/nerc

Tel: 7896123664/9957689985/7086050764/6003137219

Indian Institute of Technology Guwahati Guwahati, Assam, 781039, India



Research Conclave

Chief Patron

Hon'ble Minister of Education Shri. Dharmendra Pradhan

Co-Chief Patron

Hon'ble Chief Minister of Assam Dr. Himanta Biswa Sarma

Patron(s)

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

Hon'ble Minister of State for Education, Dr. Rajkumar Ranjan Singh

Hon'ble Minister of State for Education, Dr. Subhas Sarkar

Hon'ble Minister of State for Education, Smt. Annpurna Devi

Hon'ble Minister of Education, Assam Dr. Ranoj Pegu

Hon'ble Minister of Science Technology & Climate Change, Assam Shri. Keshab Mahanta

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 Chakravarthy

Secretary, Science Technology & Climate Change, Govt. of Assam, Shri. Gyanendra Tripathi

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 Chatteriee

Director, NIT Manipur, Dr. Goutam Sutradhar

Director, NIT Nagaland, Dr. S. Venugopal

Director, NIT Sikkim, Prof. Mahesh Chandra Govil

VC, Tezpur University, Prof. 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, Itanager, 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 (IIIG)

ocal Organizing Committee (IIIG)	
Prof. T. G. Sitharam, Director	Chairman
Prof. Vimal Katiyar, Dean, R&D	Convener
Prof. Subhendu Sekhar Bag, Assoc. Dean, R&D	Co-Convener
Shri. Kailash Karthik N, IAS, CEO-Guwahati Biotech Park (GBP)	Co-Convener
Prof. P. K. Iyer, Dean, PRBR	Member
Prof. Hemant B. Kaushik, ADOAA-OP	Member
Prof. Mihir Kumar Purkait, Dean, AER	Member
Prof. Achalkumar A. Sudhakar, Dean, OEP	Member
Prof. Debasish Das, Assoc. Dean, II&SI	Member
Prof. Bithiah Grace Jaganathan, Assoc. Dean, SA	Member
Prof. U. S. Dixit, HoC-Center for Indian Knowledge Systems	Member
Prof. A. Perumal, HoD-Physics	Member
Prof. T. V. Bharat, Civil Engineering	Member
Prof. S. N. Joshi, Mechanical Engineering	Member
Prof. Ramagopal V. S. Uppaluri, Chemical Engineering	Member
Prof. Animes Golder, Chemical Engineering	Member
Prof. P. Muthukumar, Mechanical Engineering	Member
Dr. Pranab K. Mondal, Mechanical Engineering	Member
Dr. Mahima Arrawatia, Vice-Chair HAB (Girls)	Member
Dr. Archana M. Nair, Civil Engineering	Member
Dr. John Jose, Computer Science and Engineering	Member
Dr. Debaprasad Maity, Physics	Member
Dr. Swarup Bag, Mechanical Engineering	Member
Dr. Pankaj Tiwari, Chemical Engineering	Member
Dr. Amit Kumar, Chemical Engineering	Member
Dr. Akshai Kumar Alape Seetharam, Chemistry	Member
Dr. Surojit Majumdar, Sr. Medical Officer	Member
Mr. Prakash Hazarika, HoS, Administration	Member
Mr. Sanjay Mandal, HoS, PRBR	Member
Smt. Manali Jain, ACS, Administrator-GBP	Member
Smt. Monsumi Gogoi, Administrative Officer-GBP	Member
Dr. Bula Choudhury, Sr. Scientist-GBP	Member
Dr. Saurav Dey, Scientist-GBP	Member
Dr. Rajiv Chandra Dev Goswami, Research Associate-GBP	Member
Dr. Prajjalendra Barooah, Research Associate-GBP	Member
Shri. Sunil Bharadwaj, MIED-GBP	Member
Shri. Vineet Choudhary, MIED-GBP	Member
	The second secon







Shri. Jasraj Singh, MFIF-GBP

https://www.facebook.com/iitgwt/

https://twitter.com/IITGuwahati/

https://www.linkedin.com/school/iitg/

https://www.instagram.com/iitgwt/

https://www.youtube.com/ IITGuwahatiOfficial



Prof. Vimal Katiyar, Dean, R&D

3rd Floor, Research Building, IIT Guwahati

E-mail: nerc@iitg.ac.in | www.iitg.ac.in/rnd/nerc Tel: 7896123664/9957689985/7086050764/6003137219

Member

