



IEEE



MTT-S
IEEE MICROWAVE THEORY &
TECHNOLOGY SOCIETY

BROADENING PARTICIPATION COMMITTEE (BPC) ENGAGE NORTH-EAST INDIA WORKSHOP'25

TITLE OF THE WORKSHOP

**SPECTRUM RISING:
RF to Millimeter-Wave & Beyond**

DATE: 09th-10th Sept, 2025

TIME: 8am - 6pm

VENUE: IIT Guwahati

in collaboration with



MTT-S
IEEE MICROWAVE THEORY &
TECHNOLOGY SOCIETY

Guwahati Chapter



The IEEE Microwave Theory and Technology Society (MTT-S) is a **transnational society with more than 14,000 members and over 350 chapters worldwide**. The society **promotes the advancement of microwave theory and its applications, including RF, microwave, millimeter-wave, and terahertz technologies**.

TAP HERE FOR MORE DETAILS ON MTT-S

IEEE MTT-Society's **Broadening Participation Committee (BPC)** has started an **Initiative in 2025 to engage NE India** and encourage the participation from all the states in the region.

“ **The workshop aims to inspire students to explore this exciting and impactful domain, opening doors to cutting-edge research and career opportunities!** ”

WHY SHOULD YOU JOIN US FOR THIS WORKSHOP?

- 1) Participants will benefit from the **insights and experiences shared by national and international experts**, helping them connect theoretical learning with real-world applications.
- 2) Through **interactive sessions, and competitions**, students will develop a more active interest in high-frequency technologies and related fields.
- 3) The **competitive components** of the workshop will help students improve their problem-solving, analytical thinking, and teamwork skills.
- 4) The event aims to **inspire students to pursue further research, academic or industry career paths** in the RF, microwave, millimeter-wave, and related communication and sensing technologies.
- 5) The workshop is expected to **encourage more student participation in IEEE MTT-S activities**, fostering a vibrant, technically engaged student community.

EVENT LIST

- **KEYNOTES**

This MTT-S BPC workshop will include talks by international delegates on the research topics in RF to THz technologies, systems & applications. The delegates will be available for discussions with the students and faculties.
- **CAREER GUIDANCE & MENTORING SESSIONS**

Insightful discussion on various career paths that can be pursued as RF engineer, showcasing the importance and impacts of MTT-S technologies in the society and guidance on how to make the most out of the engineering career in this field.
- **NORTH-EAST INDIA FACULTY PRESENTATIONS**

This workshop will include presentations by faculties from various engineering institutes in NE-India, where the faculties will discuss their experience as a teacher and researcher, as well as the challenges they face.
- **INDUSTRY SESSIONS & CAREER CONVERSATIONS**

Experts from commercial, SPACE and DEFENCE sectors will present the importance of MTT-S technologies, share their personal experiences, and provide guidance on various opportunities for RF and millimeter wave engineers in the industry.
- **3MT COMPETITION***

In three minutes or less, using only one static slide, and no other props, student contestants deliver their presentation to a panel of non-specialist judges.
- **STUDENT DEMO & POSTER SESSIONS**

Technical Demonstrations and Poster Presentations by NE-India students sharing their ideas about how to solve real-life challenges in the larger scale.

PARTICIPATE IN THE EVENT COMPETITIONS AND WIN PRIZES!!!

3MT COMPETITION

Three Minute Thesis (3MT) Competition:

Step into the spotlight and pitch your idea, innovation, or research to a panel of non-specialist judges, using just one static slide. You'll have exactly 3 minutes to make it *engaging, accessible, and unforgettable!*

JUDGEMENT CRITERIA

- **Clarity for a non-technical audience**
- **Storytelling and structure**
- **Overall impact and delivery**

Do you have what it takes to win the minds and moments in just 180 seconds?!

Category #1 : B.Tech

Undergraduate participants will present on topics aligned with curated themes provided by the organizers, encouraging clarity, creativity, and impactful communication on emerging technologies.

Category #2 : M.Tech & PhD

Graduate and post-graduate participants will showcase their original research or thesis work, focusing on how effectively they can communicate complex ideas to a non-specialist audience.

LIST OF SPEAKERS

PLENARY



Goutam Chattopadhyay
NASA JPL, USA



Devendra Jalihal
Director, IIT Guwahati

BPC & SIGHT



Debabani Choudhury
SeraTech LLC, USA



Chinmoy Saha
IIST Kerala

KEYNOTES



**Maurizio
Bozzi**

University of Pavia,
Italy



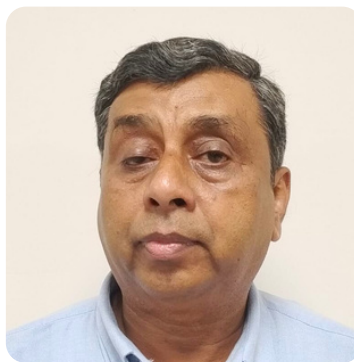
Ke Wu

University of Montreal,
Canada



**Madhavan
Swaminathan**

Penn State,
USA



**Ratnajit
Bhattacharjee**

IIT Guwahati,
India



**Malgorzata
Celuch**

QWED,
Poland



**Naoki
Shinohara**

Kyoto University,
Japan



**Ramesh
Gupta**

Ligado Networks,
USA

INDUSTRY SESSIONS



Madhumita Chakravarti

Ex-DRDO, Hyderabad



Debashish Deb

LRDE DRDO, Hyderabad



Suman Sinha

Qualcomm, India



Debojyoti Dhar

SAC/ISRO, Ahmedabad



Sulekha Chattopadhyay

EESA, USA



Arijit Majumdar

SAMEER, Kolkata



Jolly Dhar

Ex-SAC/ISRO, Ahmedabad

BPC WORKSHOP TEAM



Debabani Choudhury
Chair, IEEE MTT-S BPC Committee



Goutam Chattopadhyay
President, IEEE MTT-S



Ashwini Sawant
Co-Chair, IEEE MTT-S BPC Workshop



Aradhana Misra
Co-Chair, IEEE MTT-S BPC Workshop



Bishal Kashyap
Coordinator, IEEE MTT-S BPC Workshop



Ratnajit Bhattacharjee
Executive Committee, IEEE MTT-S BPC Workshop



Kandarpa Kumar Sarma
Executive Committee, IEEE MTT-S BPC Workshop



Chinmoy Saha
Executive Committee, IEEE MTT-S BPC Workshop



Madhumita Chakravarti
IEEE MTT-S BPC Workshop Industry Chair



Ramesh Sonkar
Member, IEEE MTT-S BPC Workshop



Debabrata Sikdar
Member, IEEE MTT-S BPC Workshop



Manash Pratim Sarma
Member, IEEE MTT-S BPC Workshop



Mahima Arrawatia
Member, IEEE MTT-S BPC Workshop



Ankita Kumari
Member, IEEE MTT-S BPC Workshop



Souvik Ghosh
Student Volunteer, IEEE MTT-S BPC Workshop



Bhushan Ballav Pathak
Student Volunteer, IEEE MTT-S BPC Workshop



Priyanshu Bhattacharya
Student Volunteer, IEEE MTT-S BPC Workshop