

MAT - 2017

Two Days Workshop on Microwave & Antenna Technology

Held during 31st March to 1st April 2017

Organized by the Department of Electronics & Communication
Engineering

In association with IEEE AP/ MTT Kolkata Chapter



Siliguri Institute of Technology (Under Techno India Group)
Sukna, Siliguri, Darjeeling

Preface

The Department of Electronics & Communication Engineering of Siliguri Institute of Technology has organized a “**TWO DAYS WORKSHOP ON Microwave and Antenna Technology (MAT-2017)**” during **31st Mar-1st April, 2017**, which aims at providing a platform for the exchange of information on latest findings, new ideas and technical expertise among researchers, developers, engineers, students, and practitioners working in India. The purpose of MAT 2017 is to promote research and developmental activities in Microwave & Antenna engineering.

The task for engineers made by employers, managers and also by the whole society is the fulfillment of needs of those societies by design, manufacturing and exploitations of newer and newer products fulfilling higher requirements making easier everyday life, work and many other expectations. It is expected that this workshop will facilitate to fulfill these requirements and satisfy the expectations.

The socio-economic scenario of the engineering students is found to be propelled by industries which are not very relevant with their course of study. Therefore, there is mis-utilization of the human resource. But if they sustain in their relevant field of study, they can contribute some valuable philosophies to their respective domains. Hence, the other perspective of this platform is to induct the students either directly or indirectly to the research and developmental environment.

Our special thanks to the **Techno India Group Management** for providing financial assistance to organize this conference.

We place our gratitude to the management, faculty and students whose constant support has encouraged us at every stage of this great task.

Conducting such a programme is really challenging because of its geographical location, however with the heartfelt support from the IEEE AP/MTT Kolkata Chapter, advisory committee, head office, local office and all other well wishers we have the spirit to conduct such workshop.

Workshop

Microwave as well as antenna engineering has been increasingly adopted in many diverse applications such as radio astronomy, long-distance communications, space navigation, radar systems, medical equipments as well as missile electronic systems. As a result of the accelerating rate of growth of microwave and antenna technology in research and industry sectors; students, teachers and practicing engineers in these area are faced with the need to understand various theoretical and experimental aspects of design and analysis of microwave circuits, antennas and simulation techniques, as well as their applications. The principal objective of this workshop was to train, educate and appraise students, research scholars and professionals from academic institutes, industries and other sectors in the field of microwave and antenna engineering. The workshop focused upon exploring new avenues with latest advances in the field of microwave and antenna technology through lectures of distinguished and eminent scientists and researchers.

Inaugural Session



The inaugural program was enlightened by the eminent dignitaries from the institutes of international repute, the HOD, Dept. of ECE, of Siliguri Institute of Technology, Convener & Joint convener MAT 2017, Senior faculties and students of the department of this institute, The guests were honored by the flower bouquets. Dia lighting was the soul part of the inaugural session.

Inaugural Address

There were four key note speakers in the workshop.

NOTABLE SPEAKERS

- **Dr. Satyajit Chakrabarty**, Scientist, SAMEER, Kolkata and Chairman IEEE AP/MTT Kolkata
- **Prof. Susanta Parui**, Associate Professor, IEST, Shibpur
- **Prof. Koushik Dutta**, Asst. Professor, NSEC and Secretary IEEE AP/MTT Kolkata
- **Prof. Rakesh Sinha**, Asst. Professor, JIS College of Engineering, Nadia

Mr. Satyajit Chkrabarty, Prof.(Dr.) Gautam Das, HOD, ECE, SIT, Ms. Dia Ghosh, Convener, MAT 2017 addressed the respected audience with their views of MAT 2017 and expressed their heartfelt wishes for the success of this event.



Inaugural address by Mr. Satyajit Chakraborty, SAMEER



Inaugural address by Dr. Gautam Das, HOD, ECE, SIT



Inaugural address by Ms. Dia Ghosh , Convener

Session

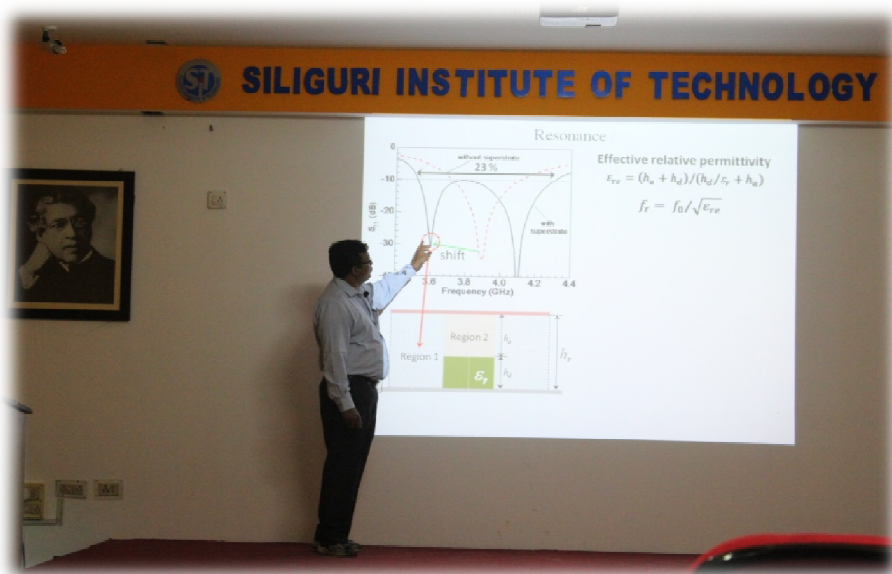
The workshop had two days session. On the first day the program was initiated with the invited talks delivered by the Prof. Koushik Dutta. After that the session was followed by two more technical talks delivered by Mr. Satyajit Chakrabarty and Prof. Rakesh Sinha. On the second day there were two sessions conducted by Prof. Sushanta Paru and Prof. Koushik Dutta. Following are the list of invited talks delivered by the dignitaries.

Day-1

- **Engineering with Dielectric Resonator Antenna Modes** by Prof. Koushik Dutta (10:30 am – 01.45pm)
- **Shared Aperture Antenna** by Mr. Satyajit Chakrabarty (02:30 pm – 04.00pm)
- **Matching Network** by Prof. Rakesh Sinha (04:30 am – 05.30pm)

Day-2

- **Frequency Selective Surfaces in Performance Enhancement of Antenna** by Prof. Susanta Parui (10:00 am – 11.00am)
- **New Concept, Theory, and Advanced Design of Resonance Cavity Antenna** by Prof. Koushik Dutta (11:00 am – 12.00pm)



Invited talk by Prof. Koushik Dutta, NSEC



Invited talk by Prof. Sushanta Parui, IEST, Shibpur

Inauguration of the Departmental News Letter, Electronika

The departmental news letter Electronika was also inaugurated on this day by the dignitaries and the Director of the institute.



Inauguration of the Departmental news letter Electronika.

Valedictory Session

On successful completion of MAT 2017, vote of thanks was delivered by Jt. Convener, Dr. Subhojit Sarker. And subsequently the certificates were distributed.



Vote of Thanks delivered by Dr. Subhojit Sarker , Jt. Convener



The Director, SIT Felicitating Prof. Sushanta Parui



Certificate Distribution

Conclusion

The grand success of MAT 2017 would not only motivate the organizing committee to organize such kind of program in regular manner but also inspired the students to contribute their work in the field of Microwave & Antenna Engineering.

