

## About the IEEE

The Institute of Electrical and Electronics Engineers Inc. (IEEE) is the world's leading professional association for the advancement of technology. The IEEE has more than 365,000 members, including 68,000 students, in over 150 countries. It publishes 128 transactions, journals and magazines and organizes more than 300 conferences worldwide each year.

IEEE Madras Section has been organizing technical meets, conferences and seminars of the highest standard for the benefit of its members. The section today has the highest number of student branches in the world. With an aim to improve the teaching learning process in Tamil Nadu, the section is regularly organizing Faculty Development Programme (FDP) for the teaching faculty members of Engineering Colleges and Universities in Tamil Nadu and Workshops for teaching faculty, students and engineering professionals.

### About this Workshop:

A delegation of IEEE-MTT Society delegates which includes Dr. Barry Perlman (President of MTT Society-2009), Prof. Samir El-Ghazaly (MTT President Elect-2009), Prof. Madhu S. Gupta (Chair, MTT-S Publications Committee) and Vijay Nair (Chair,- MTT-S India Initiative) will visit Chennai in December 2009. It provides an excellent opportunity for academicians, engineers and students working in the area of RF circuits and systems to listen and interact with some of the leading experts in the field. IEEE Madras Section has taken this opportunity to organize this IEEE Workshop on RF & Microwave Circuits & Systems for the benefit of its members and other interested delegates.

The IEEE Workshop on RF & Microwave Circuits & Systems will include a presentation by Dr. Barry Perlman, President of IEEE MTT Society-2009, on the activities of IEEE MTT Society and a

presentation by Prof. M.S. Gupta, IEEE MTT Society Publication Chair on preparation of technical papers for publication in IEEE MTT-S and other scholarly journals, which will be very useful for all aspiring to publish in IEEE journals. Besides, there will be seven technical presentations.

### Venue and schedule:

The Workshop will be held on 14<sup>th</sup> December 2009 in SAMEER-Centre for Electromagnetics, CIT Campus, 2nd Cross Road, Taramani, Chennai - 600113. The registration will start at 8.30 am followed by Inauguration at 9 am.

### Course Fee:

There is no course fee for members/student members of IEEE. For non-members the course fee is Rs.1000/-. **The course fee will be refunded to participants if they become member of IEEE within one year.** Accommodation and transport will be the responsibility of the participants. All participants are required to pre-register for the Workshop.

### Technical presentations:

- 1) Miniaturized RF Components by Samir El-Ghazaly
- 2) Phase Noise in Oscillators-Characterization, simulation and optimization by Madhu Gupta
- 3) Heterogenous Network Communication devices by Vijay Nair
- 4) Millimeter wave Integrated Circuit Techniques & Technology by Shibana Koul
- 5) RF MEMS applications and components by Amitava DasGupta
- 6) Electromagnetic Bandgap Structures (EBG) and application to RF circuits by P. Hanumantha Rao
- 7) RF applications of MagnetoDielectrics by V. Abhaikumar and S. Raju

## About the Speakers

Barry Perlman, Life Fellow of IEEE, is Associate Director in the U.S. Army Communications-Electronics RD&E Center. He is responsible for many advanced technology programs in the area of C4ISR and Director for DARPA Programs and High Performance Computing.

Samir El-Ghazaly, Fellow of IEEE, is a Distinguished Professor and Head of Department of Electrical Engineering at University of Arkansas. He also holds the Twenty-First Century Leadership endowed Chair in Engineering. He was the Editor-in-Chief for the IEEE Microwave and Wireless Components Letters.

Madhu Gupta, Fellow of IEEE, is Professor, Univ. of California, San Diego and San Diego State University. He was Editor of IEEE Microwave and Guided Wave Letters and Microwave Magazine, has published nearly 100 writings, including journal articles, conference and invited papers, patents, book chapters, and reviews.

Vijay Nair, Fellow of IEEE, is Principal Research Scientist at Intel Corporation, Phoenix, AZ. He currently leads research in Small form packages, antennas and the integration of antennas into RF front-end modules for mixed network radio applications. He holds 15 US patents and has published over 100 papers in refereed journals.

Shibana Koul is Professor, CARE, IIT Delhi. He is currently involved in research in the areas of RF MEMS, Active antenna, Microwave and millimeter wave active and passive circuits. He is Fellow of the Indian National Academy of Engineering and on the Editorial board of several journals.

Amitava DasGupta is Professor, IIT Madras. He has published a book and more than 100 papers in International Journals and Conferences and supervised more than 15 Research Scholars. His research interests are in the areas of Microelectronics and MEMS.

P. Hanumantha Rao is with SAMEER, Chennai. He received his Ph.D from The Queen's University of Belfast U.K He has more than 20 years of research experience in development of antennas and has published around 60 papers in International Journals and conferences.

Dr.V.Abhaikumar is Principal, Thiagarajar College of Engineering, Madurai. His areas of research interest are computational eletromagnetics and modelling, analysis and optimization of microwave and millimeter wave devices. He has published 26 papers in journals.

Dr. (Mrs.) S. Raju received her PhD degree in 1996. Her areas of research interest are Computer Aided Design and Testing of RF systems and antenna. She has published over 30 journal papers.



REGISTRATION FORM

Name :

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Drawee Bank :

Note: The Bank DD shall be drawn in favour of  
IEEE Madras Section, payable at Chennai.

Signature of the Applicant

Signature of the Head of Institution

Complete Registration form along with  
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IEEE Madras Section  
Room No. 3, ISTE Professional Centre  
Gandhi Mandapam Road, Chennai- 600 025

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**IEEE MADRAS SECTION**

***Organises***

**IEEE Workshop on  
*RF & MICROWAVE  
CIRCUITS & SYSTEMS***

*Date:*  
14<sup>th</sup> December 2009

*Venue :*  
**SAMEER-Centre for Electromagnetics,  
CIT Campus, 2nd Cross Road,  
Taramani, Chennai 600113**

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