IEEE Antennas and Propagation Society (AP-S) Madras Chapter

in association with

Department of ECE, SSN College of Engineering

announce 5 – Day Faculty Development Programme on

Electromagnetics

*October 31 - November 4, 2016*

Venue: Seminar Hall, Department of ECE
SSN College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110.

This FDP is organized for the benefit of faculty and researchers having responsibility/ interest in the area of electromagnetics. The FDP will attempt at giving a solid understanding of concepts. Each day will have tutorial session in the afternoon devoted to the discussion of problems.

Program Schedule

<table>
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<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>31.10.16</td>
<td>8.15 am – 9.00 am</td>
<td>Registration</td>
<td>Dr. S. Radha HoD, ECE Dept., SSN CE</td>
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<td></td>
<td>9.00 am – 9.15 am</td>
<td>Welcome Address</td>
<td>Dr. R. K. Mishra Behampur University</td>
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<td></td>
<td>9.15 am – 11.45 am</td>
<td>Electric fields in free space</td>
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<td></td>
<td>1.00 pm – 3.15 pm</td>
<td>Tutorial</td>
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<td>01.11.16</td>
<td>8.30 am – 11.30 am</td>
<td>Electric fields in materials</td>
<td>Dr. Amalendu Patnaik IIT Roorkee</td>
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<tr>
<td></td>
<td>1.00 pm – 3.15 pm</td>
<td>Tutorial</td>
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<td>02.11.16</td>
<td>8.30 am – 11.30 am</td>
<td>Static and slowly varying magnetic fields in free space</td>
<td>Dr. Harishankar Ramachandran IIT Madras</td>
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<td>1.00 pm – 3.15 pm</td>
<td>Tutorial</td>
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<tr>
<td>03.11.16</td>
<td>8.30 am – 11.30 am</td>
<td>Magnetic fields in materials</td>
<td>Dr. Uday Khankhoje IIT Delhi</td>
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<td>1.00 pm – 3.15 pm</td>
<td>Tutorial</td>
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<td>04.11.16</td>
<td>8.30 am – 11.30 am</td>
<td>Time varying fields</td>
<td>Dr. K. T. Selvan SSN CE Mr. V. Lingasamy RS, SSN CE</td>
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<td>1.00pm – 3.00 pm</td>
<td>Tutorial</td>
<td>Dr. S. Joseph Gladwin, Asso. Prof., SSN CE</td>
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<td>3.00 pm – 3.30 pm</td>
<td>Concluding comments and Feedback</td>
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Registration information

The number of participants is limited to 75.

The registration fee is Rs. 1750/- for IEEE members and students, Rs. 2250/- for others.

The fee should be paid by Demand Draft, drawn in favor of “The Principal, SSN College of Engineering” payable at Chennai.

Please complete the Registration form online

Url: https://docs.google.com/forms/d/1dG24fdxeLMrHXKLG2ltpyd-gxccByFDvETtTavO7uM4/edit?usp=sharing

A signed copy of the form along with DD should be sent to the address given below.

On-campus accommodation is available on request for a payment of Rs. 750/- for 5 days. This amount will need to be paid by cash at the time of reporting for the event. The accommodation is a twin-sharing one.

Last date for receiving registration form and DD: Wednesday, October 26, 2016

For any clarifications, please email any of the workshop coordinators:

   Dr. S. Joseph Gladwin, josephgladwin@ieee.org
   Mr. S. Karthie, karthies@ssn.edu.in

Cancellation Policy:

Requests for cancellation of registration should be received by email on or before 26 October 2016. No refunds will be possible beyond this date.

Please send the registration form, along with DD to:

   Mr. S. Karthie
   Assistant Professor, ECE Department
   SSN College of Engineering
   Rajiv Gandhi Salai (OMR)
   Kalavakkam – 603 110

   Please superscribe the envelope with ‘IEEE AP-S FDP’
Speakers’ biographies

Rabindra Kishore Mishra (SM’2K) was born in Cuttack, Odisha (India) on September 06, 1963. He received respectively the B.Sc.(Hons.), M.Sc. and Ph.D. degrees in Physics from SCS College, Puri, Odisha in 1984, REC (now NIT) Rourkela, Odisha in 1987, and UCE, Burla, Odisha in 1993. He joined the Electronic Science Department at Berhampur University in September 1991. He visited CARE at IIT Delhi in 1996-97 as INSA Visiting Fellow and the School of Electrical & Electronics Engineering at the Birmingham University during 1999 – 2000 as a British Commonwealth Fellow. In June 2004, he joined the Sambalpur University as a Reader in Electronics. He returned to Berhampur University in March 2007 and since then, he has been a professor in the Department of Electronic Science. He was the Director of Biju Pattanaik Computer Centre at Berhampur University during 2007 – 2008 when the University initiated the e-Governance Project. Also, he was the Head of the Electronic Science Department from 2007 – 2009 & 2010 – 2013.

He is the course coordinator of the M.Tech. (EIS) Program, which he introduced at the Berhampur University, since 2007. Since 1995, Prof. Mishra has contributed to the application of Artificial Neural Network Techniques in the domain of Antennas and Propagation. He coined the ‘Neurospectral Technique” in an IEEE Paper of 2003 and

“NFDTD Technique” in an IEEE Paper of 2005 which are hybrids of ANN with Spectral Domain Method and FDTD respectively. Besides, his research group initiated work on Fractal Antennas and Modern Electromagnetic Metamaterials in India respectively in 2001 and 2004. He authored the Chapter 4 “Optimization Techniques for Planar Antennas” in the book Microstrip and Printed Antennas: New Trends, Techniques and Applications edited by Debatosh Guha and Yahia Antar for Wiley. He had been a reviewer for many Journals of repute like IEEE Trans. on MTT, IEEE Trans. on AP, IEEE MWCL, Int’l J. of RF & Microwave CAD etc. Prof. Mishra has been the thesis adviser of 12 Ph.D. recipients who hold professorial, research, or engineering positions at major institutions including CMMACS Bangaluru, IIT Roorkee, NIT Durgapur, NIT Rourkela, UCE Burla, Berhampur University, Prasar Bharati (Ministry of Information & Broadcasting), etc. Currently, he is conducting research in a wide range of electromagnetics modeling problems including the Digital Travelling Wave Technique, stochastic models for EM Metamaterials, EM Cloaking, Fractal Antennas, Log-Periodic Microstrip Antennas, Novel Materials for Resonating Antennas etc. He has received many awards including Samanta Chandra Sekhar Award in Engineering and Technology for 2008, Hari Ohm Ashram Prerit Harivalahb Das Chunilal Research Endowment Award, IETE JC Bose Award, British Commonwealth Fellowship, INSA Visiting Fellowship, etc. He is a Senior Member of IEEE and Life Member of ISTE & Life Fellow of IETE.

Dr. Amalendu Patnaik is working as Associate Professor in the department of Electronics and Communication Engineering, IIT Roorkee. He is the member of several professional societies and recipient of awards like BOYCAST fellowship from DST for the year 2003, IETE – J.C. Bose memorial award for the year 2000. He has been IEEE AP-S Region 10 Distinguished Speaker for the year 2015-16. His areas of interest include Microstrip Antennas and Arrays, Array Signal Processing, Soft-computing Techniques in Microwave Engineering.

Dr. Harishankar Ramachandran, received his B.Tech. from IIT Bombay in 1982 and his Ph.D. from the University of California at Berkeley, both in Electrical Engineering. He was a research scientist in the Physics Department at the University of California, Los Angeles for five years before returning to India. He was a scientist at the Institute for Plasma Research, Gandhinagar, from 1993 till 2001 and joined IIT Madras in Nov 2001, where he is now a Professor in, and Head of, the Electrical Engineering Department. His research interests include computational optics, nonlinear optics, computational plasma physics and optical link design and planning.
**Dr. Uday Khankhoje** is an Assistant Professor of Electrical Engineering at the Indian Institute of Technology Delhi, New Delhi, India, since 2013. He received a B.Tech. degree from the Indian Institute of Technology Bombay, Mumbai, India, in 2005, an M.S. and Ph.D. degrees from the California Institute of Technology (Caltech), Pasadena, USA, in 2010, all in Electrical Engineering. He was a Caltech Postdoctoral Scholar at the Jet Propulsion Laboratory (NASA/Caltech) from 2011-2012, and a Postdoctoral Research Associate in the Department of Electrical Engineering at the University of Southern California, Los Angeles, USA, from 2012-2013. His research interests lie in the area of computational electromagnetics and its applications to remote sensing and inverse imaging. He received an Institute award for teaching excellence at IIT Delhi in 2015 for an undergraduate course on electromagnetism.

**Dr. Krishnasamy T. Selvan** has been a Professor in the Department of ECE, SSN College of Engineering, India, since June 2012. From early 2005 to mid-2012, he was with the Department of Electrical and Electronic Engineering, University of Nottingham Malaysia Campus. From early 1988 to early 2005, Selvan was with SAMEER – Centre for Electromagnetics, Chennai, India. Here he was essentially involved in antenna analysis, design, and testing. During 1994–1997, he was the Principal Investigator of a collaborative research programme that SAMEER had with the National Institute of Standards and Technology, USA. Later he was the Project Manager/Leader of some successfully completed antenna development projects.

Selvan's professional interests include electromagnetics, horn antennas, printed antennas, and electromagnetic education. In these areas, he has authored or coauthored a number of journal and conference papers. Selvan was on the editorial boards of the International Journal of RF and Microwave Computer-Aided Engineering and the International Journal on Antennas and Propagation. He has been a reviewer for major journals including the IEEE Transactions on Antennas and Propagation. He was Technical Programme Committee co-chair for the IEEE Applied Electromagnetics Conference held in Kolkata in December 2011, and Student Paper Contest co-chair for IEEE AEMC 2013 held in Bhubaneswar. He was the publications Chair for the IEEE MTT-S International Microwave and RF Symposium (IMaRC) held in Bangalore in December 2014. He co-organized sessions on EM/microwave education during IMaRC 2014 and International Symposium on Antennas and Propagation, Kochi, 2014.

Selvan founded the Madras Chapter of the IEEE Antennas and Propagation Society (AP-S) in 2013, and has been the Chapter Chair since then. Selvan is a member of the Education Committee of the IEEE Antennas and Propagation Society. He is an AP-S Region 10 Distinguished Speaker for 2015-16. Selvan is a senior member of the IEEE, a Fellow of the Higher Education Academy (UK), and a Life Member of the Society of EMC Engineers (India).