



INVITED LECTURE SERIES
by
PROF. JEAN-MARC LAHEURTE
University of Paris-Est Marne-La-Vallée, France
&
DST VAJRA Adjunct Professor,
Department of Electronics, CUSAT



IEEE Antennas and
Propagation Society

Day 1: Research topics around UHF RFID antennas
Day 2: Advanced topics on Antennas & Propagation at the ESYCOM Lab



At 11.00 AM

On 23RD (MON)

&

25TH (WED), JULY, 2018

Venue: DEPT OF ELECTRONICS AUDITORIUM,
ENGINEERING SCIENCES BUILDING, CUSAT

Organized by
DEPARTMENT OF ELECTRONICS, COCHIN
UNIVERSITY OF SCIENCE AND TECHNOLOGY
In association with
IEEE ANTENNAS AND PROPAGATION SOCIETY
(APS), KERALA SECTION

Monday, July 23, 11AM

Research topics around UHF RFID antennas

- General presentation of the ESYCOM Lab (University Paris-Est, France)
- Basics on UHF RFID technologies and RFID antennas
- Comparison of UHF RFID Loop Matching Antennas Based on Various Substrate-Metal Material Combinations
- Statistical Study of Coupling in Randomly Distributed Dipole Sets : Application to RFID logistics

Wednesday, July 25, 11AM

Other selected advanced topics on Antennas & Propagation at the ESYCOM Lab

- Theoretical & practical results on antennas in lossy materials (potential applications: antennas in human body, bitumen roads or concrete walls, agricultural soils, ...)
- Influence of the properties of electromagnetic mode-stirred reverberation chambers (MSRC) on antenna efficiency measurements
- Power optimized waveforms for wireless power transmission

About the Speaker: Jean-Marc Laheurte received the M.Sc. and Ph.D. degrees in electrical engineering and the Habilitation à Diriger les Recherches degree from the University of Nice, France, in 1989, 1992, and 1997, respectively. From 1989 to 1990, he was a Research Assistant with the École Polytechnique Fédérale de Lausanne, Switzerland. In 1992, he was a Post-Doctoral Researcher with the University of Michigan, Ann Arbor, MI, USA. From 1993 to 2002, he was an Associate Professor with the University of Nice Sophia Antipolis, France. From 2002 to 2011, he was a Professor with the University of Paris-Est Marne-La-Vallée, France, where he was the head of the Gaspard Monge Institute for five years. In 2012, he spent one year as an RF Senior Engineer with Tagsys, La Ciotat, France. Since 2014, he is the Director of the Laboratoire Electronique, SYstèmes de COmmunications et Microsystèmes (ESYCOM Laboratory) including 70 members. He has organized several courses in various European institutions in the frame of the European School of Antennas and has been ruling the “Antennas” committee of the JNM Microwave French Conference since 2007. He has authored or co-authored two books, 2 book chapters, over 70 technical papers in international journals, and 100 conference papers. He holds two patents on RFID technologies. His current research interests include antennas in matter, RFID technologies, RFID localization, body area networks (BAN) antennas and channel modeling.

About the Department: Instituted in the year 1975, the **Department of Electronics** is envisaged as a postgraduate Department with Master's degree and Ph.D. programmes in frontier fields of electronics. With academic programs mainly in areas like Microwave Propagation & Antennas, Microwave Material Studies, Underwater Acoustics, Ocean Electronics, VLSI & Embedded systems & Robotics, the department has been supported through various research projects and research fellowships by several national/international funding agencies, collaborations with international universities and a strong alumni base spread across.