

The European Microwave Association (EuMA), the Technical University of Valencia (UPV) and the European Space Agency organize a Course on Microwave Filters and Multiplexing Networks for Space Communication Systems. Senior researchers from European Universities and the European Space Agency (ESA), as well as experts from Space Industries, will participate in the following programme:

MONDAY, 18/04/2016

9:00	Introduction to the Course Microwave Filters and
13:00	Multiplexing Networks in Space Telecommunication Payloads
14:00	The System Perspective and Practical Tradeoffs Synthesis
18:00	Techniques of Microwave Filters – The Basics

TUESDAY, 19/04/2016

9:00	Synthesis Techniques of Microwave Filters: Coupling Matrix
13:00	Advanced Coupling Matrix Synthesis Techniques
14:00	Analysis and Design of Microwave Filters FEST 3D: EM
17:30	Software Tool for the Analysis, Synthesis and Design of Microwave Components

WEDNESDAY, 20/04/2016

9:00	Microwave Filters in Planar Technology Synthesis and Design
13:00	of Dissipative filters
14:00	Reconfigurable Compact Filters in Planar/SIW Technology
17:30	Compact Filter Topologies CST MWS: Synthesis and Tuning of Modern Microwave Filters

THURSDAY, 21/04/2016

9:00	Flexible Payloads Design of Multiplexers Waveguide and
13:15	Coaxial Low-Pass Filters Synthesis of Microwave Devices based on the Coupled-Mode Theory
14:15	Microwave Filters for Space: Earth Observation Payloads
18:00	High Frequency Filters (SU8, Laser Ablation, CNC Machining and DRIE Manufacturing Techniques)

FRIDAY, 22/04/2016

9:00	Practical Considerations for Implementing Microwave Filters
13:00	and Multiplexers Advanced Manufacturing Processes of Filters Multipaction Effect in High-Power Space Hardware
14:00	Visit to ESA Facilities Conclusions
17:00	

INVITED SPEAKERS

- Dr. Chandra Kudsia – University of Waterloo
- Mr. Richard Cameron – IEEE MTT-S Fellow & Distinguished Lecturer
- Prof. Roberto Sorrentino – University of Perugia
- Prof. Jia-Sheng Hong – Heriot-Watt University
- Prof. Jordi Mateu – Technical University of Catalonia
- Dr. Xiaobang Shang – University of Birmingham
- Dr. Carlos Vicente, Dr. Jordi Gil – AURORASAT
- Dr. Frank Demming-Janssen – CST

And other speakers from participating Universities and Organizations:

- Microwave Applications Group (iTEAM and I3M) – UPV
- Microwave Components Group - Public University of Navarre
- European Space Agency - ESTEC

ORGANIZING COMMITTEE

- Prof. Vicente E. Boria - Technical University of Valencia
- Mr. Petronilo Martin-Iglesias - European Space Agency
- Dr. Cesar Miquel - European Space Agency
- Ms. Jaione Galdeano – European Space Agency
- Dr. Piero Angeletti, Mr. David Raboso – European Space Agency
- Dr. Chandra Kudsia - University of Waterloo
- Dr. Marco Guglielmi – Technical University of Valencia
- Prof. Alessandro Galli – University of Rome, La Sapienza
- Prof Miguel Angel Gomez-Laso – Public University of Navarre
- Mr. David Argiles - Val Space Consortium
- Mrs. Maria Bayarri - Technical University of Valencia

REGISTRATION FEES AND OTHER INFORMATION

❖ Students (EuMA members*)	400 €
❖ Students	450 €
❖ Others (EuMA members*)	600 €
❖ Others	650 €

Registration fees include: 1 electronic copy (USB) with presentations, lunches, refreshments, gala dinner. **Registration Deadline: 31/03/2016.**

*To become an EuMA member visit: www.eumwa.org

VENUE: the course will be held at the European Space Agency - ESTEC, located in Noordwijk, The Netherlands. More information on: http://www.esa.int/About_Us/ESTEC

ECTS CREDITS: for European PhD students, a one week course may be eligible for 2 ECTS credits, provided that these are accredited by the University and/or PhD advisor.

GRANTS: up to 3 PhD students will get the registration fee granted. Applicants shall send their CV to mababel@iteam.upv.es

MORE INFORMATION AND REGISTRATION:

Maria Bayarri – mababel@iteam.upv.es

Collaborating entities: