

CALL FOR PAPERS

Deadline 31 May, 2009

2009 International Topical Meeting on Microwave Photonics

MWP 2009
Valencia, Spain

Microwave photonics brings together the worlds of radiofrequency engineering and optoelectronics, attracting great interest from both the researchers and the commercial sector over the past 20 years with a promising future. The advantages of optical systems can be exploited to perform a variety of processing signal functions in the radiofrequency domain, and open new and exciting possibilities to be explored in the field.

The 2009 International Topical Meeting on Microwave photonics will be an exciting forum, as one of the world's major events in the field, for new results and developments in microwave photonics field.

Valencia is a charming old city and the capital of the Old Kingdom of Valencia province of Spain that is well worth a visit. It is located on the Mediterranean Sea approximately four hours to the south of Barcelona and three hours to the east of Madrid. Valencia is famous for its *Fallas* Festival in March, for being the birthplace of *paella*, for hosting the 32nd America's Cup, and the Formula One Grand Prix of Europe, held for the first time at the Valencia Street Circuit in 2008.

Valencia offers the charm of the city's old quarters; the emblematic City of Arts and Sciences and a large beautiful park lying on the old river bed, its popular and extensive beaches; its museums and cultural activities; the richness of its Mediterranean cuisine with a large variety of rice dishes, particularly paella; and the huge nightlife scene with pavement cafes, smart restaurants, open-air discos and summer terraces, many of which are open until dawn

Conference Scope

Devices, Components and Subsystems

- High speed and broadband photonic devices: lasers, detectors, modulators, etc.
- Advanced optical probing and measurements
- Optical frequency metrology
- Integration and packaging technologies for microwave photonic devices
- High-speed optical analogue to digital conversion
- Hybrid and chip level integration of photonics devices
- Optically controlled electromagnetic wave synthesis, from microwave to THz
- Advanced materials and components for analog and digital fiber links
- Photonic and electromagnetic wave band-gap (PBG and EBG) structures
- Signal processing and techniques for optical spectra synthesis
- MEMS for microwave photonics

Systems and Applications

- Wired, wireless and cellular radio systems and networks
- Low cost Radio over Fiber solutions
- Subcarrier multiplexed and optical CATV systems
- Optical control of array antennas
- Advanced modulation techniques (OFDM, PSK, CDMA, etc) in optical transmission systems
- Tera-Hertz waves and system applications
- Microwave and millimeter-wave optical signal generation techniques
- Sensors using photonic and/or microwave technologies
- Photonics-based satellite applications
- Security technologies for optical wireless systems
- Microwave Photonic technologies for bio-medical applications
- Optical processing and control of high speed analog and digital signals
- Photonic technologies for advanced wireless communications including MIMO and UWB systems, etc.
- Innovative applications of microwave photonics