



The 2016 Defence, Security and Space Forum At European Microwave Week

Register at
www.eumweek.com



Wednesday, 5 October

ExCeL London • Rooms 8 to 11

A focused Forum addressing the application of RF and microwave technology to Complex Urban Environments.

The emphasis will be on complex urban environments, encompassing the challenges and opportunities for indoor/enclosed and urban communications and sensing technologies. The Forum has the scope to cover topics including: Smart City initiatives; 3D tracking technologies in complex and indoor environments; sensing complex targets in dense target environments; congested spectrum and network issues.

Programme:

09:00 – 10:40 EuRAD Opening Session

11:20 – 13:00 Complex Urban Sensing and Communication

Speakers from industry and academia will present RF solutions and systems that address the challenges imposed by operation in complex urban environments. Confirmed speakers include:

- New Transceiver Technology Applied to Standoff Submillimetre-Wave Imaging Radar – *Ken Cooper, JPL*
- Indoor and Urban Environment Location of Moving People and Vehicles Using Signals of Opportunity – *Pierfrancesco Lombardo, University of Rome*
- Communication Satellite Impact on TV and Data Broadcasting Through Urban Environments – *Erdem Demircioğlu, Turksat International*
- Analyzing Doppler Spectrum Using WiFi for Trained-Once Device-Free Crowd Counting and Occupancy Estimation – *Alfonso Farina, Consultant of Land and Naval Division, Leonardo Company*

13:10 – 14:10 Strategy Analytics Lunch & Learn Session

This session will add a further dimension by offering a market analysis perspective, illustrating the status, development and potential of the market.

14:20 – 16:00 Microwave Journal Industry Panel Session

The session offers an industrial perspective on the key issues facing the defence, security and space sector. In accordance with the theme for 2016, the Panel will address: *Complex Urban environments, encompassing the challenges and opportunities for indoor/enclosed and urban communications and sensing technologies.*

Confirmed speakers include:

- Spectral Detection and Visualisation with Distributed RF Receivers – *Raymond Shen, Keysight Technologies*
- Addressing Communications in Urban Environments with UltraCMOS and Intelligent Integration – *Andrew Christie, Peregrine Semiconductor*
- GaN Integration in Defense and Security Applications – *Dean White, Qorvo*
- How do Mobiles Develop the 6th Sense? – An Introduction to LTE-based Device-to-Device (D2D) Communication Principles – *Meik Kottkamp, Rohde & Schwarz*



Photos Courtesy of Shmuel Auster

16:40 – 18:20 EuMW Defence & Security Executive Forum

High-level speakers from leading defence and security companies present their views and experiences on RF microwave technology trends and its use in urban environments. Confirmed presentations include:

- Challenges for Maritime Border Surveillance Radar – *Tony Brown, EASAT*
- Challenges in the 'Future Borders' Concept - Combining Technology, People and Processes – *Roger Cumming, Fenley-Martel (ex UK Home Office)*
- Challenges in Urban Sensing and Communications – *Ian Beresford, QinetiQ*

18:20 – 19:00 Cocktail Reception

Registration and Programme Updates

Registration fees are £10 for those who have registered for a conference and £40 for those not registered for a conference.

As information is formalized, the Conference Special Events section of the EuMW website will be updated on a regular basis.

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