

THz Sources for Security, Non-Destructive Testing, Communication and Earth Observation Applications

AGENDA

Tuesday, May 31, 2016

9:00 am to 9:40 am Registration and Refreshments

Morning Session, THz Sources

9:40 am to 10:00 am **Opening Ceremony**

10:00 am to 10:15 am Melusine Pigeon, Queen Mary University of London, "Multenna based multipliers for THz applications"

10:15 am to 10:30 am Andrei Gorodetsky, Aston University, Birmingham, "THz generation in quantum dot based photoconductive antennas"

10:30 am to 10:45 am Hui Wang, RAL, "Broadband 360 GHz Receiver and Sources for TeraSCREEN"

10:45 am to 11:00 am Thomas Loftus, QMUL, "Coherent THz noise sources"

11:00 am to 11:30 am **Coffee Break**

Keynote Address:

11:30 am to 12:00 pm Wenlong He, Strathclyde University, Glasgow, "Design and operation of gyro-TWAs towards terahertz range"

12:00 pm to 12:15 pm Fangjing Hu, Stepan Lycszyn, Imperial College, "Modelling Miniature Incandescent Light Bulbs for Thermal Infrared 'THz Torch' Applications"

12:15 am to 12:30 pm Jiandong Lang, Queen Mary University of London, "Simulation study of high power THz magnetron"

12:30 pm to 12:45 pm Ata-ul-Habib Khalid, Glasgow, "Room-temperature THz source technology and their signal detection using vector network analysers"

12:45 pm to 1:00 pm Lianhe Li, University of Leeds, "High performance THz QCLs with output powers exceeding 1 W"

1:00 pm to 2:00 pm **Lunch**

Afternoon Session, THz Applications and Materials

2:00 pm to 2:30 pm **Keynote Addresses:**
Oleg Mitrofanov, University College London, "On THz near-field techniques"

2:30 pm to 2:45 pm	Yangjie Liu, QMUL, "A class of invisible graded index profiles and the control of electromagnetic waves"
2:45 pm to 3:00 pm	Irina Khromova, UCL, "Near-field analysis of magnetic dipole modes in anisotropic dielectric THz resonators"
3:00 pm to 3:15 pm	Ivonne Escorcía Carranza, Glasgow, "CMOS Terahertz imaging using metamaterial absorbers"
3:15 pm to 3:30 pm	Theo Kreozis, QMUL, "Organic semi-conductors for THz applications"
3:30 pm to 4:00 pm	Coffee Break
4:00 pm to 4:30 pm	Keynote Addresses: Ian Robertson, Leeds, "Prospects for terahertz system-on-substrate technology"
4:30 pm to 4:45 pm	Colin Viegas, Manchester, "Material inspection using a broadband noise source and high sensitivity radiometer"
4:45 pm to 5:00 pm	Tom Siday, UCL, "Spatial resolution improvements in THz near-field techniques"
5:00 pm to 5:15 pm	Laurence Stant, Surrey, awaiting talk title
5:15 pm to 5:30 pm	Olex Sushko, QMUL, "Manufacturing of THz components using novel technologies"
5:30 pm to 6:00 pm	Closing Ceremonies