

UK-THz Meeting at Warwick University:

THz Instrumentation and Applications

Posters & Exhibition, 11th December 2018



Exhibitors

Table	Exhibitor	Delegates
1	Menlo Systems	Milan Oeri
2	MKS Newport Spectra Physics	Ashley Crane & Selena Kerrigan
3	Quantum Design UK and Ireland	Ben Parker & Amalya Minasyan
4	Teraview	Alessia Portiei and Phil Taday
5	Springer Nature	Tom Spicer
6	EPSRC FLUENCE Project	Michele Siggel-King, University of Liverpool

THz Sources and Detectors

Number	Title	Presenter	Affiliation
1	Impact of Pump Wavelength on Terahertz Emission of a Cavity-enhanced Spintronic Trilayer	Rosamund Herapath	University of Exeter
2	Two-dimensional plasmons for terahertz electronic devices	Serhii Siaber	Imperial College London
3	Optical injection phase locked loop locking of THz QCL	Reshma Anamari Mohandas	University of Leeds
4	Magnetic-field tailoring of the terahertz polarization emitted from a spintronic source	Darren Graham	University of Manchester
5	Broadband THz detection	Matteo Clereci	University of Glasgow
6	Quantum-cascade laser emission at 3.5 THz from dual diagonal feedhorns	Esam Zafar	University of Leeds

THz Components, Devices and Technique Development

Number	Title	Presenter	Affiliation
7	Cavities enhance the optical modulation of silicon for THz imaging	Lauren E Barr	University of Exeter
8	Terahertz-Based Tablet Porosity Measurement - Working Towards a RTRT Dissolution Assay for a Continuous Manufacturing Line	Prince Bawuah	University of Cambridge
9	Laser feedback interferometry using terahertz quantum cascade lasers	James Keeley	University of Leeds
10	Broadband, rotatable terahertz polarisation control for the spectroscopy of anisotropic materials	Connor Mosley	University of Warwick
11	Terahertz Nonlinear Ghost Imaging	Luana Olivieri	University of Sussex
12	Terahertz time domain spectroscopy based on sandwich reflection geometry for thin film characterization: theories and experimental validations	Qiushuo (Sarah) Sun	University of Warwick
13	3D printed polarizers for the terahertz region	Arturo Hernandez Serrano	University of Warwick

14	Mask Performance of Terahertz Single Pixel Imaging Using a Total Internal Reflection Device	Xiao Yu	University of Warwick
15	THz Antenna based on Graphene for Wearable Application	Abdoalbaset Abohmra	University of Glasgow
16	Video-rate terahertz digital holographic imaging system	James Grant	University of Glasgow
17	A quantum Bell Test homodyne interferometer at ambient temperature for millimetre wave entangled photons	Neil A. Salmon	Manchester Metropolitan University

THz Spectroscopy: Applications

Number	Title	Presenter	Affiliation
18	Characterisation of the Effect of Microstructure on the Liquid Transport in Porous Media Using Terahertz Spectroscopy and Imaging	Mohammed Al-Sharabi	University of Cambridge
19	Optical and Terahertz Properties of Carbon Nanotubes	Maria Burdanova	University of Warwick
20	Aperture Near-Field Microscopy and Spectroscopy of Subwavelength THz Resonators	Lucy Hale	University College London
21	Understanding terahertz photoconductivity of bilayer graphene	Srabani Kar	University of Cambridge
22	THz driven acceleration of relativistic electron beams	Steven Jamison	University of Lancaster
23	Sign inversion in the terahertz photoconductivity of single-walled carbon nanotube films	Peter Karlsen	University of Exeter
24	Is there a water content threshold for cluster formation?	Johanna Kölbl	University of Cambridge
25	Efficient Intraband Hot Carrier Relaxation in the Perovskite Semiconductor $Cs_{1-x}Rb_xSnI_3$ Mediated by Strong Electron-Phonon Coupling	Maurizio Monti	University of Warwick
26	Spectral analysis of gas-phase reactions using self-mixing with a THz QCL	Eleanor Nuttall	University of Leeds
27	THz pump-probe studies of carrier dynamics in the phase change material GST	Matt Reeves	University of Bath
28	Terahertz Spectroscopy of Freeze-Dried Solid State Formulations	Talia Shmool	University of Cambridge
29	HIPER - High power mm-wave electron spin resonance	Graham Smith	University of St Andrews
30	The Warwick Centre for Ultrafast Spectroscopy: Dynamics, the full spectrum.	Michael Staniforth	University of Warwick
31	Photo-Induced Terahertz Plasmonics in Black Silicon	Jacob Tunesi	University of Sussex
32	Monitoring the Water Status in Different Plant Leaves at Cellular Level Using Terahertz Sensing	Adnan Zahid	University of Glasgow
33	Millimetre-wave and Terahertz driven Material Applications	Bin Yang	Chester University