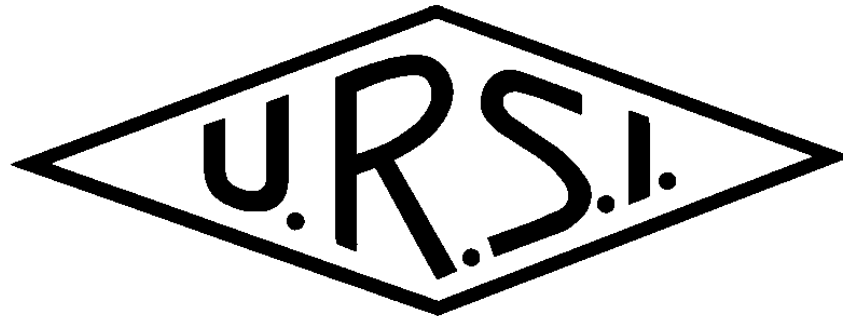


Festival of Radio Science 2016



Department of Electronics

The Exhibition Centre

Rooms P/L/001 and P/L/005

University of York

10am – 5pm on 6 December 2016

Programme

09.15	Coffee	
09.40	Opening Remarks	
Session 1 Chair: Professor I A Glover		
10.00	Ahmed F Mirza, Isah M Danjuma, M Buhari, N Eya and R A Abd-Alhameed	Imaging with arrays of ultra-wideband radio frequency microwave sensors: breast cancer detection
10.20	Haiying Li, Farideh Honary, Zhensen Wu, Qingchao Shang and Lu Bai	Reflection, Transmission and Absorption of Vortex Beams Propagation in Inhomogeneous Magnetised Plasma
10.40	P L Martin, N Jackson-Booth, R Penney and R Buckland	Recovering electron density height profiles using forward oblique ionosondes
11.00	H A H Al-Behadili, A J Stocker, E M Warrington, D R Siddle, F Honary and N C Rogers	Propagation prediction for HF communications with aircrafts on trans-polar routes
11.20	Timothy Heelis	Holistic simulations of Ionospheric Radio Heating Experiments
11.40	Neil C Rogers, Farideh Honary and E Michael Warrington	Nowcasting Space Weather Impacts on Polar HF Communications
12.00	James Parker and S Eleri Pryse	Characterisation of the main ionospheric trough in the Western European sector using the Electron Density Assimilative Model (EDAM)
12.20	Lunch (incorporating Poster Papers)	
Session 2: Posters		
Poster 1	George Oguntala, Raed Abd-Alhameed, Stephen Jones and Jim Noras	Design and Characterization of an Electrically Small Meander Line Antenna for UHF RFID Applications
Poster 2	Isah M Danjuma, Fathi M Abdussalam, Ammar Ali, Raed A Abd-Alhameed and James M Noras	Reconfigurable Design Model of Bow-Tie Dipole Adjacent Lossy Dielectric Using Optimisation Method in Hybrid Electromagnetic Technique
Poster 3	George Oguntala, Huthaifa Obeidat, Raed Abd-Alhameed, Stephen Jones and Jim Noras	Smart Room for Elderly ADL Monitoring using Passive RFID sensors
Poster 4	K W Hameed, M A Al-Sadoon, A.A. AlAbdullah, R A Abd-Alhameed and S M R Jones	Performance Evaluation of Single Snap Shot DoA Method
Poster 5	U Khan, I A Glover, H Ahmed, P Lazaridis, B Saeed, D Upton, A Jaber, P Mather, Y Zhang and M F Q Vieira	PD Localization Algorithm Based on Received Signal Strength
Poster 6	R Asif, M Alsadoon, A A AlAbdullah, K W H Hameed and R A Abd-Alhameed	Angle of Arrival Estimation Techniques and Modelling and Design of a Novel Miniaturized Reconfigurable Antennas
Poster 7	Manijeh Bashar, Alister G Burr and Kanapathippillai Cumanan	Robust Geometry-Based User Scheduling for Large MIMO Systems
Poster 8	Y Tu, Raed A Abd-Alhameed, George Oquntala, A A Atojoko and Mohammed Al-Sadoon	Tri-Wide Band Polygon Filter
Poster 9	H Ahmed, P Lazaridis, U Khan, B Saeed, D Upton, A Jaber, P Mather, Y Zhang, M F Q Vieira and I A Glover	Partial Discharge Detection Using Low-cost Real-time Software Defined Radio Technology
Poster 10	Rachel Buckland, Natasha Jackson-Booth, Richard Penney and Poppy Martin	Detecting the Ionospheric Trough Using EDAM
Poster 11	Stuart Harper	The Simulated Effect of Navigation Satellites on Future HI Intensity Mapping Surveys
Poster 12	Neil C Rogers, Alasdair Helliwell and Karl Atkinson	Modelling Ionospheric Faraday Rotation for a 435 MHz Radar Satellite and the Selection of Calibration Transponder Sites
Poster 13	S Butler and R Seviour	Bio foundries for the mass production of metamaterials
Poster 14	A Hopper and R Seviour	Realisation of High Power Microwave Artificial Material Devices
Poster 15	K. Mistry, P Lazaridis and I Glover	Measurement, simulation and optimisation of wideband log-periodic antennas

Session 3 Chair: Dr Martin Robinson		
13.20	Fathi M Abdussalam, Isah M Danjuma, Mohammed Al-Sadoon and Raed A Abd-Alhameed	Conical NMHA Design Model Using Firefly Optimisation Technique
13.40	A W Pang, C D Gamlath, M A Collett, S Bensmida and M J Cryan	Non-linear Characteristics of an Optically Reconfigurable Microwave Switch
14.00	Omer Arabi, Bo Liu, Raed Abd-Alhammed, N T Ali and Peter S Excell	A Novel Dual-Polarised Microstrip Patches Antenna for Ultra-Wideband MIMO Application
14.20	A Jaber, P Lazaridis, B Saeed, U Khan, Y Zhang, D Upton, H Ahmed, P Mather, M F Q Vieira, R Atkinson, M Judd and I A Glover	Free-Space Radiometric Estimation of Apparent Charge in Partial Discharge Processes for the Monitoring of Insulation Integrity in High Voltage Systems
14.40	Lei Liu and Keith Grainge	Phased Arrays Feed for Reflector Observing Systems with Development of True Time Delay Lines
15.00	Tea	
Session 4 Chair: Professor E M Warrington		
15.20	Samuel Bourke, John Dawson and Martin Robinson	Staircasing errors due to orthogonal meshing of electromagnetic cavities in FDTD
15.40	Wafa S Shuaieb, Steve M Jones, Huthaifa A Obeidat and Raed A Abd-Alhameed	Radio-Location Techniques under Adverse Channel Conditions
16.00	P K Singya, N Kumar and V Bhatia and F A Khan	Outage Analysis of Multi-hop AF Millimeter Wave Relaying Network over Mixed Rician/Rayleigh Fading Channels
16.20	A A AlAbdullah, K W H Hameed, S M R Jones and R A Abd-Alhameed	Channel Characteristics at several mmWaves spectrums for Indoor Environment Applications
16.40	Jiexiong Yan, John Dawson and Andy Marvin	Effect of power state on the absorption cross section of personal computer electronics
17.15	Award of Prizes and Closing Remarks	