WF12
EPSRC Projects in Microwave, Millimetre-Wave and THz Research

Organiser
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Abstract
To quote from its website: “The Engineering and Physical Sciences Research Council (EPSRC) is the UK’s main agency for funding research in engineering and the physical sciences. EPSRC invests around £800 million a year in research and postgraduate training, to help the nation handle the next generation of technological change.” For several years EPSRC has designated RF and Microwave Devices and RF and Microwave Communications as growth areas, and this policy is manifested in a current portfolio of grants in these areas totaling over £30M. In this workshop, the strategic direction, ambition and vision of EPSRC for RF and Microwave research will be presented and discussed, and a series of talks showcasing a cross section of current EPSRC funded projects will be given.

Programme

14:20 – 14:25 Welcome and Introductions
Matthew Scott, EPSRC

14:25 – 15:00 EPSRC RF and Microwave project portfolio and future strategic directions and ambitions.
Matthew Scott, EPSRC

15:00 – 15:30 Ultimate Electromagnetics and Novel Materials: QUEST, SYMETA and Graphene
Prof. Yang Hao, Queen Mary University of London

15:30 – 16:00 Integration of RF Circuits with High Speed GaN Switching on Silicon Substrates
Dr K. Elgaid, University of Glasgow
Professor Peter Houston, University of Sheffield

16:00 - 16:40 Coffee Break

16:40 – 17:10 Informed RF for 5G and Beyond
Dr Pei Xiao, University of Surrey

Prof. Tim O’Farrell, University of Sheffield,
Prof. Mark Beach, University of Bristol

17:40 – 18:10 Low THz Technology and Applications: TRAVEL, Micromachined Circuits for THz Comms, and PATHCAD.
Prof. Michael Lancaster, Dr Marina Gashinova,

18:10 – 18:20 Open Discussion and Concluding Remarks