

National Vacuum Electronic Conference 2018

NVEC 2018

University of Oxford, Department of Physics,

Dennis Sciama Theatre, Denys Wilkinson Building, Keble Road

Oxford OX1 3RH

Monday 10th of September 2018

Arrival, registration and coffee: 9:00 - 9:30 coffee/tea/biscuit

Ivan Konoplev: Announcements: 9:30-9:35

Ian Shipsey (HoD): University of Oxford, Department of Physics:

"Welcome"

9:35 – 9:50

Chair: Ivan Konoplev

1/ Amelia Edwards: Lancaster University/CERN

"Design and Analysis of RF Upgrade for Improved Phase Measurement on XBOX1 at CERN"

9:50 – 10:10

2/ S. Foulkes: University of Huddersfield:

"Metamaterial Based RF Source"

10:10 – 10:30

3/ Benjamin Hounsell: University of Liverpool/Cockcroft Institute:

"Modification of the ALICE photocathode electron gun electrode system for operation at 500 pC bunch charge"

10:30 – 10:50

4/ Sophie Barc: Anritsu:

"VNA fundamentals"

10:50 - 11:10

Coffee Break and meet NVEC partners 11:10 -11:40

Chair: Graeme Burt

5/ Adrian Cross: University of Strathclyde/CI:

“Millimeter Wave Sources based on pseudospark sourced electron beams”

11:40 – 12:00

6/ Monika Christine Balk: CST GmbH:

“Recent advancement in CST Studio Suite® for Particle Dynamics simulations”:

12:00 - 12:20

7/ S. Butler: University of Huddersfield:

“Bio-inspired Artificial EM Materials”:

12:20 - 12:40

8/ Juan Socuellamos: Lancaster University:

“Meander line traveling wave tube for space applications”:

12:40 – 13:00

9/ Rupa Basu: Lancaster University:

“Design of G-band TWT for wireless high data rate link”

13:00– 13:20

Lunch 13:20 – 14:00

Chair: Adrian Cross

10/ Liang Zhang: University of Strathclyde/CI:

“Measurement of W-band gyro-TWA with wide bandwidth input signal”

14:00 – 14:20

11/ Andrew Vint: Lancaster University/Cockcroft Institute:

“Investigation of 2D PBG waveguides for THz driven acceleration”

14:20 – 14:40

12/ Johnathan Smith: Tech-X UK:

“Recent developments in microwave generation capabilities in VSim 9”

14:40 – 15:00

13/ **Craig Robertson**: University of Strathclyde:

“A W-band TWT for Satellite Communications”

15:00 - 15:20

Coffee Break & meet our industrial partners 15:20 – 16:00

Chair: Rebecca Seviour

14/ **Daniel Molnar**: COMSOL Ltd:

“Ultrahigh Vacuum Chemical Vapor Deposition Simulation with COMSOL Multiphysics®”

16:00 – 16:20

15/ **Yasir Alfadhl**: Queen Mary University of London:

“Design and analysis of a 95 GHz spatial harmonic magnetron”

16:20 – 16:40

16/ **Lee Millar**: University of Lancaster/ Cockcroft Institute:

“Long term breakdown studies in a CLIC test structure”

16:40 – 17:00

17/ **Victoria Hill**: Lancaster University:

“Design and Application of a Fuzzy Logic Table for Tuning High Efficiency Klystrons”

17:00 – 17:20

18/ **Jan Paszkiewicz**: University of Oxford

“Field emission mapping in prototype cavities for CLIC”

17:20-17:40

Final remarks, discussion 17:40-17:50

17:50 - 21:00 - Reception in the foyer and following discussion in The Royal Oak

Finding parking around appears to be a really convoluted process, if not impossible.

So please avoid bringing a car.