

Technical Session	Technical Session Organizer
2.4 Vacuum Microelectronics and THz Devices	Andrey Andreev ( <a href="mailto:Andreev_andrey@bah.com">Andreev_andrey@bah.com</a> )

**Session WE 1.6: Microwave and Plasma Interactions, Vacuum Microelectronics and THz Devices and Slow Wave Devices**

Wednesday, May 24, 2017 10:00-11:30, Wildwood 15

Session Chair: Rebecca Seviour, Huddersfield University

**10:00 WE 1.6-1 RESEARCH PROGRESS ON LINEAR AVALANCHE MULTIPLICATION GAAS TERAHERTZ EMITTER**

S. Wei, L. Hong, W. Ling

*Applied Physics Department, Xi'an Uniecersity of Technology, Xi'an Shaanxi, China*

**10:15 WE 1.6-2 EFFECTS OF THZ TRANSMISSION ON THE NARROW GAP DC GLOW DISCHARGE PLASMAS**

N. Alasgarzade<sup>1</sup>, H. Altan<sup>1</sup>, D. Mansuroglu<sup>1,2</sup>, A. B. Sahin<sup>3</sup>, I. U. Uzun-Kaymak<sup>1</sup>

<sup>1</sup>*Physics Department, Middle East Technical University, Ankara, Turkey*

<sup>2</sup>*Canakkale Onsekiz Mart University, Canakkale, Turkey*

<sup>3</sup>*Ankara Yildirim Beyazit University, Ankara, Turkey*

**10:30 WE 1.6-3 NEXT GENERATION IONOSPHERIC HEATER ARRAY**

B. Esser, J. C. Dickens, J. J. Mankowski, A. A. Neuber

*Center for Pulsed Power and Power Electronics, Texas Tech University, Lubbock, TX, United States*

**10:45 WE 1.6-4 STUDYING PERMITTIVITY AND ELECTRIC FIELD FOR PLASMA GENERATION BY DIELECTRIC RESONATOR ARRAYS**

S. Dennison, J. Hopwood, A. Chapman

*Electrical and Computer Engineering, Tufts University, Medford, MA, United States*

**11:00 WE 1.6-5 DESIGN OF OVERSIZED TWTS WITH PHOTONIC BAND-GAP STRUCTURES**

G. Rosenzweig, J. C. Stephens, M. A. Shapiro, R. J. Temkin

*Plasma Science and Fusion Center, Massachusetts Institute of Technology, Cambridge, MA, United States*

**11:15 WE 1.6-6 A 140 GHZ GYRO-AMPLIFIER USING A DIELECTRIC-LOADED, SEVER-LESS CONFOCAL WAVEGUIDE**

A. Soane, M. A. Shapiro, R. J. Temkin

*MIT, Cambridge, MA, United States*