

Technical Session	Technical Session Organizer
3.1 Plasma, Ion, and Electron Sources	Scott Kovaleski ( <a href="mailto:kovaleskis@missouri.edu">kovaleskis@missouri.edu</a> )

**Session MO 2.6: Plasma, Ion, and Electron Sources**

Monday, May 22, 2017 from 16:00-18:00, Wildwood 15

Session Chair: Scott Kovaleski, U Missouri

**16:00 MO 2.6-1 MODELING ION BEAM NEUTRALIZATION WITH 3D PARTICLE-IN-CELL SIMULATIONS**

D. Han, N. A. Gatsonis

*Worcester Polytechnic Institute, Worcester, MA, United States*

**16:15 MO 2.6-2 HIGH POWER OPERATION OF CONTROLLED POROSITY RESERVOIR CATHODES**

L. Ives, L. Falce, D. Marsden, G. Collins, M. Read

*Calabazas Creek Research, Inc., San Mateo, CA, United States*

**16:30 MO 2.6-3 THE TWO-STREAM INSTABILITY IN A FINITE LENGTH PLASMA**

D. Sydorenko<sup>1</sup>, I. D. Kaganovich<sup>2</sup>

<sup>1</sup>*University of Alberta, Edmonton, Edmonton, Alberta, Canada*

<sup>2</sup>*Princeton Plasma Physics Lab, Princeton, NJ, United States*

**16:45 MO 2.6-4 (invited) DYNAMICS OF ION BEAM CHARGE NEUTRALIZATION BY FERROELECTRIC PLASMA SOURCES**

A. D. Stepanov<sup>1</sup>, E. P. Gilson<sup>1</sup>, L. R. Grisham<sup>1</sup>, I. D. Kaganovich<sup>1</sup>, Q. Ji<sup>2</sup>, A. Persaud<sup>2</sup>, P. A. Seidl<sup>2</sup>, T. Schenkel<sup>2</sup>

<sup>1</sup>*Princeton Plasma Physics Laboratory, Princeton, NJ, United States*

<sup>2</sup>*Lawrence Berkeley National Laboratory, Berkeley, CA, United States*

**17:15 MO 2.6-5 INVESTIGATION OF PLASMA ELECTRON SOURCES USING OPTICAL EMISSION SPECTROSCOPY AND CORRELATION WITH EXTRACTED ELECTRON CURRENT**

S. del Pozo<sup>1</sup>, C. N. Ribton<sup>1</sup>, D. R. Smith<sup>2</sup>

<sup>1</sup>*Electron Beam Section, TWI Ltd., Cambridge, United Kingdom*

<sup>2</sup>*College of Engineering, Design and Physical Sciences, Brunel University London, London, United Kingdom*

**17:30 MO 2.6-6 ELECTRON ACCELERATION DUE TO THE INTERACTION BETWEEN A NEUTRALIZED ION BEAM AND BACKGROUND PLASMA**

K. Hara<sup>1</sup>, I. D. Kaganovich<sup>2</sup>

<sup>1</sup>*Department of Aerospace Engineering, Texas A&M University, College Station, TX, USA*

<sup>2</sup>*Princeton Plasma Physics Laboratory, Princeton, NJ, USA*

**17:45 MO 2.6-7 ION FILTERING OF VACUUM ARC ION SOURCE THROUGH EXTRACTION GRIDS**

C. Lan

*Institute of Fluid Physics, China Academy of Engineering Physics, Mianyang, China*