

Technical Session	Technical Session Organizer
5.3 Plasma Thrusters	Kentaro Hara (khara@tamu.edu)

Session TH 1.4: Plasma Thrusters

Thursday, May 25 10:00-11:30, Wildwood 13

Session Chairs:

10:00 TH 1.4-1 THREE-DIMENSIONAL AND SHEATH BOUNDARY EFFECTS ON THE INSTABILITIES IN EXB PLASMA DISCHARGES

V. Morin¹, [O. Koshkarov](#)¹, A. Smolyakov¹, Y. Raitses², I. Kaganovich²

¹*Physics and Engineering Physics, University of Saskatchewan, Saskatoon, Saskatchewan, SK, Canada*

²*Princeton Plasma Physics Laboratory, Princeton, NY, USA*

10:15 TH 1.4-2 PARTICLE-IN-CELL SIMULATION OF ANOMALOUS TRANSPORT IN A PENNING DISCHARGE

[J. Carlsson](#)¹, I. Kaganovich¹, Y. Raitses¹, A. Smolyakov², I. Romadanov²

¹*Princeton Plasma Physics Laboratory, Princeton, NJ, United States*

²*Department of Physics and Engineering Physics, University of Saskatchewan, Saskatoon, SK, Canada*

10:30 TH 1.4-3 NUMERICAL MODELING OF ROTATING SPOKES IN HALL THRUSTER DISCHARGE PLASMA

R. Kawashima¹, [K. Hara](#)²

¹*Department of Aeronautics and Astronautics, The University of Tokyo, Tokyo, Japan*

²*Department of Aerospace Engineering, Texas A&M University, TX, USA*

10:45 TH 1.4-4 MICRO-PROPULSION ACTIVITIES AT GEORGE WASHINGTON UNIVERSITY

[J. Kolbeck](#), M. Keidar

The George Washington University, Washington, DC, United States

11:00 TH 1.4-5 LINEAR ACTUATED MICRO-CATHODE ARC THRUSTER ANALYSIS

[S. Hurley](#), M. Keidar

Mechanical & Aerospace Engineering, The George Washington University, Washington, DC, United States

11:15 TH 1.4-6 NUMERICAL STUDY ON DYNAMIC BEHAVIOR OF INDUCTIVE PULSED PLASMA THRUSTER

[G. Xia](#)

School of Aeronautics and Astronautics, Dalian University of Technology, Dalian, Liaoning, China