



09.00	Wecome Speech	Audimax
09.30	David C. Byers Memorial Lecture → see page 10 Moderated by Roger Myers	Audimax
10.00	Plenary Lecture with Agencies → see page 10 Electric Propulsion for Future Science and Exploration Moderated by Carsten Scharlemann	Audimax
11.00	Panel Discussion → see page 10 EP in the Commercial Space Area / Moderated by Alexander Reissner	Audimax
12.30	Lunch Break & Poster Session	

	Material Technology Cathodes, Gimbals	Field Emission / Colloid Thrusters	Hall Thrusters 1	Hall Thrusters 2	Ion Thrusters
	HS6	SR5	SR6	SR2	HS5
	1 st Chair D. Goebel 2 nd Chair G. Beratti	1 st Chair C. Scharlemann 2 nd Chair B. Kristinsson	1 st Chair O. Duchemin 2 nd Chair M. Saravia	1 st Chair S. Mazouffre 2 nd Chair W. Villafana	1 st Chair H. Leiter 2 nd Chair H. Takegahara
14.00	A299 The Effect of Anode Position on Operation of a 25-A class Hollow Cathode S. Hall	A149 Development of Ionic Liquid Electrospray Thrusters with a Massive Emitter Array for Higher Thrust Density Y. Takao	A129 Hybrid Data-Driven and Physics-Based Model for Plasma Turbulence in a Hall Effect Thruster B. Jorns	A532 Spatiotemporally Resolved Ion Velocity Distribution Measurements in the 12.5 kW HERMeS Hall Thruster V. Chaplin	A154 Three-Dimensional Particle Simulations of Electron Extraction for a Miniature Microwave Discharge Neutralizer Using Water as the Propellant Y. Sato
14.15	A300 The Effect of a Hall Thruster-like Magnetic Field on Operation of a 25-A class Hollow Cathode S. Hall	A173 Laboratory Demonstration of a Staging System for Electrospray Thrusters O. Jia-Richards	A147 Modular Comprehensive Modeling of Plasma Behavior in Hall Thrusters T. Andreussi	A531 Ion Velocity Measurements in the Magnetically Shielded Miniature Hall Thruster (MaSMi) Using Laser-Induced Fluorescence V. Chaplin	A309 Lifetime Evaluation of Microwave Discharge Neutralizer using Numerical Analysis N. Hiroike
14.30	A557 Development of a Microwave Discharge Cathode for a 200 W Class Hall Thruster T. Morishita	A225 Colloid Micro-Thruster (CMT) Component Development Testing Towards Meeting LISA Mission Requirements N. Demmons	A204 Model for the Increase in Thruster Efficiency from Cross-Channel Coupling in Nested Hall Thrusters L. Su	A513 Charge Exchange Collision in the Plume of a 200 W Laboratory Hall Thruster T. Kerber	A218 Numerical study of microwave discharge ion thruster μ10 Y. Yamashita
14.45	×	A372 Pure Ionic Electrospray Extractor Design Optimization R. Antypas	A459 Magnetic Circuit Optimization for Hall Thrusters Design C. Ferrato	A220 Study on the Influence of Electron Conduction Paths on the Ignition Process of Hall Thruster W. Li	×

Pulsed Plasma Thrusters	Commercial Propulsion Needs	Global Strategic Investments	Innovative Concepts
SR4	HS2	SR3	HS3
1 st Chair K. Polzin 2 nd Chair M. Kazeev	1 st Chair V. Hruby 2 nd Chair F. Hey	1 st Chair J. Gonzalez del Amo 2 nd Chair M. Andrenucci	1 st Chair J. Brophy 2 nd Chair K. Takahashi
A185 A Performance Comparison of solid Propellants in a Surface Arc Thruster: Sulfur and Teflon S. Shimhanda	A303 Versatile Xenon Flow Controller for Extended Hall Effect Thruster Power Range G. Lenguito	A189 Activities of the H2020 Strategic Research Cluster on Space Electric Propulsion (2015-2019) J. Gonzalez del Amo	A202 Performance Scaling of Drag-Modulated Plasma Aerocapture C. Kelly
A556 Performance Evaluation and Development of Air Bearing Thrust Measurement System of Surface Arc Thruster K. Hiraka	A721 Development of an additively manufactured mass, volume and cost optimised fuel tank for microsatellite propulsion systems MiniTank A. Haque	A711 The Importance of Electric Propulsion to Future Exploration of the Solar System J. Cassidy	A254 Fluid-kinetic propulsive magnetic nozzle model in the fully-magnetized limit M. Merino
A616 Development of Pulsed Plasma Thruster for a Pico-Satellite M. Sammut	A456 Progress in Automated System Design by Evolutionary Algorithms M. Ehresmann	A753 Application of Solar Electric Propulsion in the Emerging Satellite Servicing Industry M. Glogowski	A420 Theoretical scaling laws for water-vapor propellant thrusters A. Sheppard
A899 Fiber-fed Pulsed Plasma Thruster (FPPT) for Small Satellites D. Carroll	A253 An overview of French electric propulsion activities at CNES C. Boniface	A876 Propulsion subsystem for a stand alone interplanetary CubeSat D. Feili	A717 Validation of an Equivalent Circuit Model for Rotating Magnetic Field-Reversed Configuration Thrusters J. Woods