

Programme of the international workshop on **Ion Propulsion and accelerator industrial applications (IPAIA2017)**, 1st to 3rd March 2017

March, 1st

Poster session 15-17:30 (1st floor meeting room (m. r.) atrium)

Registration desk 15-17:00 (5th floor meeting room)

	Poster session (1st floor m.r. atrium)	15-17:30
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It is recommended that posters are pin up in this session or in the following morning before the coffee break end. Posters can stay up for the whole conference duration.

March, 2nd

Registration 8:45-9:15 (1st floor meeting room (m. r.) atrium)

Registration desk 8:45-15:00 (1st floor m. r. atrium)

Speaker	Title	Place / Time
	Morning session (session chair: F. Taccogna)	(1 st floor m.r.)
Olga De Pascale	Welcome	9.00-9.10
Kathe Danenmayer ESA (NE)	ESA perspectives on EP	General 9:10-9:40
Tommaso Misuri SITAEL (IT)	Low Power Electric Propulsion Activities at SITAEL	Hall Thruster 9:40-10:10
Mariano Andrenucci SITAEL (IT)	High Power Hall Thruster Design	HT 10:10-10:40
Coffee break (25-30 min, 1 st floor m. r. atrium)		10:45-11:10
Stephane Mazouffre CNRS-ICARE (FR)	Hall thruster technology: from classical to wall-less architecture	HT 11:10-11:40
Jacek Kurzyna IPPLM (PL)	Development of IPPLM's krypton HET	HT 11:40-12:10
Amnon Fruchtmann HIT (IL)	Configuration of a collisional Hall thruster	HT 12:10-12:40
	Short announcements or discussion or poster previews; group photo	12:40-12:50
Lunch (75 min)		12:50-14:05
	Afternoon session (session chair: S. Mazouffre)	(1 st floor m.r.)
Igal Kronhaus Technion (IL)	Concepts in Low Power Hall Thruster Design - A Personal Perspective	HT 14:05-14:35
Laurent Garrigues CNRS-LAPLACE (FR)	Hybrid modeling of single and double stage Hall thrusters	Modeling 14:35-15:05
Julia Duras Nuremberg Inst. of Tech. (DE)	Kinetic modeling of electrostatic ion thrusters	M 15:05-15:35
Coffee break (25 min)		15:35-16:00
Poster Session (1 st floor m.r. atrium)		16:00-17:15

For speakers: Oral presentation time is 25 min plus 5 min for question and answers; contact us if more time needed or order of presentation need changes. Posters can stay up for the whole conference duration (staff can take care of removing them at conference end).

<p>Visit to Polignano a Mare (please be sure to inform local organizing committee of your participation and of hotel of your stay) Bus(es) depart at 17.20 Special session: oral presentation "The ion propulsion as a collaborative effort between research institutes, and with industry" 19.30-20.00 Social dinner (optional) 20:00-22 Return to Bari (with 3 selected stops convenient for hotels) 22.30-23:30 (note: social dinner in Polignano cannot be covered by conference organization; bus is covered; more info to come)</p>

March, 3rd

Speaker	Title	Place/ Time
	Morning session	(1 st floor m.r.)
Vivien Croes Ecole Polytec.-LPP (FR)	Electron drift instability and secondary electron emission in Hall effect thrusters: an insight from bi-dimensional particle-in-cell simulations	M 09:00-09:30
Francesco Taccogna CNR-Nanotec (IT)	Hall Thruster numerical tool	M 09:30-10:00
Gianpiero Colonna CNR-Nanotec (IT)	Vibrational Kinetics of Electronically Excited States in H2 Discharges	M 10:00-10:30
Peirluigi Veltri INFN (IT)	Status of NIO1 negative ion source and acceleration system	10:30-10:50
Coffee break (25 min)		10:50-11:15
Francesco Taccogna CNR-Nanotec (IT)	Hall thruster used as molecular gas dissociator	M 11:15-11:35
Giuseppe Torrissi INFN-LNS (IT)	Modeling the electromagnetic field in anisotropic inhomogeneous magnetized plasma of ECR ion sources	M 11:35-12:05
Mario Merino UC3M (ES)	Ion acceleration by magnetic nozzles	Ion Propulsion 12:05-12:35
Daniele Pavarin Univ. di Padova (IT)	Helicon Propulsion Technology perspective for small satellites	IP 12:35-13:05
Lunch (75 min)		13:05-14:20
	Afternoon session (session chair: M. Cavenago)	
Andrea Lucca Fabris SSC (UK)	Ion Acceleration Mechanism in a Quad Confinement Thruster	IP 14:20-14:50
Igor Kaganovich PPPL (USA)	Experimental and theoretical study of ion beam neutralization by plasma	IP 14:50-15:20
Mario Panelli CIRA (IT)	CIRA IMP-EP project: development and validation of a 1D model for hollow cathode analysis and design	Cathode Technology 15:20-15:50
Coffee break (30 min)		15:50-16:20
Fabrizio Paganucci Univ. di Pisa (IT)	Development of hollow cathodes for electric thrusters: theoretical and experimental results	CT 16:20-16:50
All	General discussion	16:50-17:15
Marco Cavenago INFN-LNL	Documentation and closing remarks	17:15-17:25

(for speakers: Typical oral presentation time is 25 min plus 5 min for question and answers, unless otherwise noted; contact us if more time needed or order of presentation need changes)

It is recommended that posters will be further discussed during coffee and other breaks, and be removed after last coffee break. Remaining posters will be removed by staff at the end.

Presenter	Poster list	id
Marco Cavenago	Small rf plasma generator for air	P1
Antoine Tavant	Wall interactions in Hall Effect Thruster, investigation with bidimensional Particle-in-cell model and simulation	P2
Florian Marmuse	A first review of facility effects on electric thruster testing	P3
Grazia Cicala	Carbon-based materials for cathode neutralizers in electric propulsion	P4
Romain Lucken	Improvements in global modelling of gridded ion thrusters	P5
Francesco Micchetti	Hall Thruster numerical tool - Demo	P6