

## MPCS-2017 Program

**CNR-Research Area Bari**

via Amendola 122/D Bari

Access A, Meeting room – 1<sup>st</sup> floor

**Keynote Talks: 30 min. with discussions**

**Invited Talks: 20 min. with discussions**

**June 26<sup>th</sup>**

TIME	SPEAKER	TITLE
09:00 – 09:30	<b>Registration</b>	
09:30 – 09:40	<b>Organizing Committee</b>	<b>Welcome (Local and International Org. Committees)</b>
09:40 – 10:10	<b>Michael Keidar</b> , <i>The George Washington University, USA</i>	Keynote talk: <i>Flight experiments and recent developments in micro-cathode arc thrusters for CubeSat propulsion</i>
10:10 – 10:30	<b>Christine Charles</b> , <i>The Australian National Univ., Australia</i>	Invited Talk: <i>From laboratory to space with the Australian QB50 CubeSats</i>
10:30 – 10:50	<b>Carsten Scharlemann</b> , <i>Fachhochschule Wiener Neustadt, Austria</i>	Invited Talk: <i>Title of presentation will be added</i>
10:50 – 11:10	<b>Dan Lev</b> , <i>Technion - Israel Institute of Technology, Faculty of Aerospace Engineering</i>	Invited Talk: <i>Title of presentation will be added</i>
11:10 – 11:25	<b>Coffee break</b>	
11:25 – 11:55	<b>Yevgeny Raitses</b> , <i>Princeton University, USA</i>	Keynote talk: <i>Surface nano-architected materials for plasma micropropulsion</i>
11:55 – 12:15	<b>Richard Sypniewski</b> , <i>Fachhochschule Wiener Neustadt, Austria</i>	Invited Talk: <i>Title of presentation will be added</i>
12:15 – 12:35	<b>Joshua L. Rovey</b> , <i>University of Michigan</i>	Invited Talk: <i>Multi-mode Micropropulsion</i>
12:35 – 12:55	<b>Torsten Henning</b> , <i>Justus-Liebig-Universität Giessen, Germany</i>	Invited Talk: <i>EMS technology all-photopolymer electrospray emitters for highly scalable nano- and micropropulsion</i>
13:00 – 14:00	<b>Lunch</b>	

14:00 – 14:30	Laurent Garrigues, <i>Université Paul Sabatier, France</i>	Keynote talk: <i>Influence of cathode material on Vacuum Arc Thruster performance</i>
14:30 – 15:00	Shuyan Xu, <i>Nanyang Technological University, Singapore</i>	Keynote talk: <i>Development of Singapore's Miniature Hall Effect Thruster and Gradually Expanding Rotamak Thruster for Space Propulsion</i>
15:00 – 19:00	Visit to Castel del Monte (tbd)	
19:00 – 23:00	Social Dinner in Trani (tbd)	

### June 27<sup>th</sup>

Time	Speaker	Title
09:00 – 09:30	Stephane Mazouffre and Lou Grimaud, <i>CNRS, France</i>	Keynote talk: <i>Hall thruster configurations for nano/micro-satellite propulsion</i>
09:30 – 09:50	Angelo Cervone, <i>Delft University of Technology, The Netherlands</i>	Invited Talk: <i>MEMS Water Micro-Resistojets for CubeSats and PocketQubes</i>
09:50 – 10:10	Ying Xu and Dong Guoyi, <i>Hebei University, China</i>	Invited Talk: <i>Development of China's space solar cells</i>
10:10 – 10:30	Yongjie Ding, <i>Harbin Institute of Technology, China</i>	Invited Talk: <i>Parametric studies of low power HIT Hall thruster</i>
10:30 – 11:00	Jochen Schein, <i>University of Federal Armed Forces Munich, Germany</i>	Keynote talk: <i>Scalability and Reliability of Vacuum Arc Thrusters for CubeSat Missions</i>
11:00 – 11:10	Coffee break	

11:00 – 11:30	<b>Rod Boswell</b> , <i>The Australian National University, Australia</i>	Keynote talk: <i>Development of the electrothermal Pocket Rocket thruster for CubeSats</i>
11:30 – 11:50	<b>Daniela Pedrini</b> , <i>SITAEL S.p.A. / University of Pisa, Italy</i>	Invited Talk: <i>Sitael Hollow Cathodes for Low-Power Hall Effect Thrusters</i>
11:50 – 12:10	<b>Weizong Wang</b> , <i>Qian Xuesen Laboratory of Space Technology, China Academia of Space Technology</i>	Invited Talk: <i>Micro-electric propulsion thrusters: better insights from numerical simulation</i>
12:10 – 12:30	<b>Fabrizio Paganucci</b> , <i>Aerospace Eng., Università di Pisa, Italy</i>	Invited Talk: <i>Alternative propellants for low power Hall effect thrusters</i>
12:30 – 13:00	<b>Francesco Taccogna</b> , <i>CNR-Nanotec - P.Las.M.I. lab</i>	Keynote talk: <i>Hall thruster virtual lab</i>
<b>13:00 – 14:00</b> <b>Lunch</b>		
14:00 – 14:30	<b>Shunjiro Shinohara</b> , <i>Tokyo University of Agriculture and Technology, Japan</i>	Keynote talk: <i>Development of very small, high-density helicon source for propulsion</i>
14:30 – 14:50	<b>Yan Shen</b> , <i>Beijing Insitute of Control Engineering, China Acad. of Space Technology</i>	Invited Talk: <i>Title of presentation will be added</i>
14:50 – 15:10	<b>Hiroyuki Koizumi</b> , <i>The University of Tokyo, Japan</i>	Invited Talk: <i>In-flight operation of the miniature ion thrusters on microsatellites</i>
15:10 – 15:30	<b>Stephen Gabriel</b> , <i>University of Southampton, UK</i>	Invited Talk: <i>Title of presentation will be added</i>
15:30 – 15:50	<b>Uros Cvelbar</b> , <i>Jozef Stefan Institute, Slovenia</i>	Invited Talk: <i>Atmospheric pressure plasma jets: effect of electrode materials</i>
<b>15:50 – 16:10</b> <b>Coffee break</b>		
16:10 – 16:40	<b>Georg Herdrich</b> , <i>Institute of Space Systems (IRS), Germany</i>	Keynote talk: <i>Miniaturized PPT for Cubesat applications</i>
16:40 – 17:00	<b>Liu Xiang Yang</b> , <i>Beijing Institute of technology, China</i>	Invited Talk: <i>Influence of capacitor setup on the performance of pulsed plasma thruster</i>
17:20 – 17:40	<b>Eduardo Ahedo</b> , <i>Universidad Carlos III de Madrid, Spain</i>	Invited Talk: <i>Simulation tools for plasma micropropulsion</i>
17:40 – 18:00	<b>Minkwan Kim</b> , <i>University of Southampton, UK</i>	Invited Talk: <i>Nano-engineered materials for plasma propulsion devices</i>

18:00 – 18:20	Mark Lim, <i>Nanyang Technological University, Singapore</i>	Invited Talk: <i>Title of presentation will be added</i>
18:20 – 18:40	Jinghua Fang, <i>University of Technology Sydney, Australia</i>	Invited Talk: <i>Plasma Enabled Metamaterials and Nanoporous Membranes for Electric Propulsion Applications</i>
18:40 – 19:00	Igor Levchenko, <i>Nanyang Technological Univ., Singapore</i>	Keynote talk: <i>Smart and Multifunctional Materials in Electric Propulsion and Cubesats</i>
19:00	Closing remarks Details about MPCs – 2018 (Singapore)	

## Poster Session

Posters will be displayed 26 and 27 June.

Discussions are welcome during coffee breaks and lunches.

## June 28<sup>th</sup>

Time	Additional Program (TBD)
10:00 – 14:00	Visit to labs at CNR-Nanotec - P.Las.M.I. lab (TBD)
	<ol style="list-style-type: none"> <li>1. <i>Energy Transfer in Plasmas lab;</i></li> <li>2. <i>Microwave Plasma Enhanced Chemical Vapor Deposition (MWPECVD) lab;</i></li> <li>3. <i>Advanced Laser Plasma Applications lab;</i></li> <li>4. <i>Plasma processing and polymers lab;</i></li> <li>5. <i>Graphene and 2D Materials lab.</i></li> </ol>
15:00 -	Discussions