



EPIC Workshop 2017



Introduction, and organization logistics

24th–25th October 2017 CDTI, Madrid (Spain)

Jorge Lopez Reig





EPIC Workshop 2017





Welcome you all in Madrid! Welcome to Spain!





EPIC Workshop objectives



Present the Horizon 2020 Electric Propulsion SRC activities to the Electric Propulsion community and stakeholders and to collect and assess the latest Electric Propulsion technology developments in Europe.

The EPIC Workshop is organized by the EPIC PSA with the active involvement of all its partners:















EPIC Workshop 2017 Space Electric Propulsion Strategic Research Cluster H2020

Centro para el Desarrollo Tecnológico Industrial

October 24-25 2017

EPIC (PSA of the EP SRC H2020

Madrid, Spain





EPIC Workshop objectives



The EPIC Workshop programme includes the following:

- PSA and SRC progress and activities
- H2020 Work Programme EP SRC topics
- Stakeholders interaction with Satellite Operators and Satellite Large System Integrators
- Incremental SRC OGs: objectives, proposed approach, team, progress, and early results
- Disruptive SRC OGs: objectives, proposed approach, team, progress, and early results
- Trends in Power Processing Units
- New developments on EP Incremental and Disruptive Technologies (promising thrusters and transversal technologies)
- Dissemination and education SRC activities

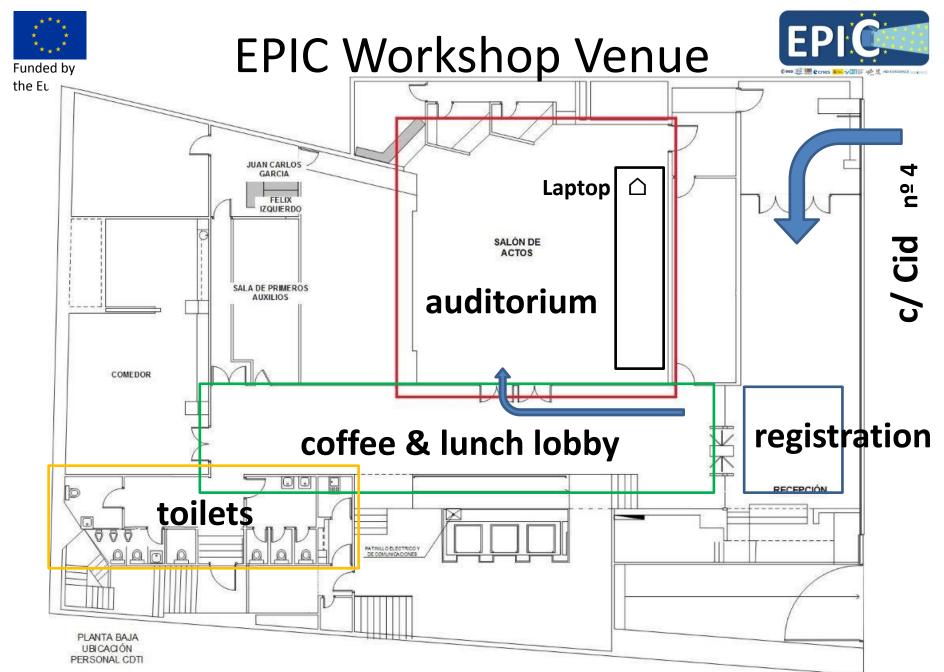




Internet connection:

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(you should reconnect after every 30 min ...)



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EPIC Workshop Venue



- Venue: CDTI main auditorium (c/ Cid nº4 (ground floor) 28020 Madrid - Spain). Capacity: (143 max)
- Laptop to upload last minute presentations.
- First 2 rows of seats reserved for session speakers, chairmans, EC, REA and EPIC PSA Team.
- Coffee breaks, "working lunches" and "networking light cocktail" will be provided: lunches (1 hour), coffee breaks (30 min), cocktail (1 hour).
- Registration on 24th and 25th with the same batch.







- Recollect last minute presentations in the laptop
- Present and introduce each speakers
- Start and finish the session ON TIME
- Manage the time of each speaker:
 - ✓ Yellow label when 5 min remains

5 min

✓ Red label when 1 min remains

1 min

- Manage and promote questions (Q&A)
- Report on the session back to the PSA



the European Union

Final Programme 24th October EPI



	Session	Time		Invited speaker		Presentation	
	36351011	Time	Last name	First name	Company	riesentation	
	Registration	8:20-9:00					
		9:00-9:15	Jorge	LOMBA	CDTI	CDTI Welcome, Inauguration Workshop	
	Welcome (Chair: CDTI)	9:15-9:30	Jorge	LÓPEZ REIG	CDTI	Introduction, and organization logistics	
		9:30-9:50	José	GONZÁLEZ DEL AMO	ESA	PSA Welcome, and EPIC Workshop Objectives	
	H2020, EP SRC and PSA (Chair: ESA)	9:50-10:10	Tanja	ZEGERS	European Commision	H2020 and EP SRC, Next Work Programmes	
		10:10-10:30	Florence	BEROUD	REA	SRC activities and Operational Grants	
		10:30-10:40	José	GONZÁLEZ DEL AMO	ESA	EPIC PSA and activities	
	Coffee break	10:40-11:15					
	Incremental SRC Operational Grants (Chair: DLR)	11:15-11:55	Idris	HABBASSI	Safran Aircraft Engines	CHEOPS	
ober 2017		11:55-12:35	Farid	INFED	ArianeGroup	GIESEPP: Solutions for current and future satellite electric propulsion n status and progress	
		12:35-13:15	Ernst	BOSCH	Thales Deutschland GmbH	HEMPT-NG – Development to provide European competitive EP solution future space missions	
	Lunch break	13:15-14:15					
		14:15-14:30	José	GONZÁLEZ DEL AMO	ESA	Disruptive thruster technologies for telecom & constellations markets	
	Satellite Large System Integrators (Chair: Eurospace)	14:30-14:45	Vincent	JACOD	Airbus Defence & Space		
		14:45-15:00	Philippe / Steven / Massimiliano	LAMOTTE / AUSTIN / MARCOZZI	Thales Alenia Space	TAS drivers towards electric propulsion versus satellites applications & Electrical propulsion impact on future Earth observation and navigatio missions	
Tuesday 24th/October 2017		15:00-15:15	Birk	WOLLENHAUPT	OHB Systems	OHB's reflections about the first study phase	
	Satellite Operators (Chair: SME4S)	15:15-15:30	Antonio	ABAD	Hispasat		
		15:30-15:45	Cosmo	CASAREGOLA	Eutelsal	ELECTRIC PROPULSION: EUTELSAT STANDOINT	
		15:45-16:00	Eric	KRUCH	SES	SES Electric Propulsion Strategy	
	Round table with LSI and Satellite Operators "Electric Propulsion in the telecom and constellations markets" (Chair: SME4S, Rapporteur: ESA)		Vincent	JACOD	Airbus Defence & Space		
		16:00-16:45	Philippe	LAMOTTE	Thales Alenia Space		
			Markus	PEUKERT	OHB Systems		
			Antonio	ABAD	Hispasat		
			Cosmo	CASAREGOLA	Eutelsal		
			Eric	KRUCH	SES		
	Coffee break	16:45-17:15					
	Disruptive SRC Operational Grants (Chair: UKSA)	17:15-17:45	Louis / Eric	GRIMAUD / BRIDOT	Safran Electronics & Defense	GANOMIC: Disruptive technologies for PPU cost & volume efficiency	
		17:45-18:15	John	STARK	Queen Mary Univ. of London	HIPERLOC-EP: Development of Electrospray Colloid Electric Propulsion low cost disruptive propulsion technology	
		18:15-18:45	Denis	PACKAN	ONERA	MINOTOR	
	EOM (EO Day)	18:45					
	Workshop cocktail	18:45-19:45	Networking light cocktail				

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Final Programme 25th October



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Registration	8:30-9:00				
Welcome of the day	9:00- 9:15	Jorge	LÓPEZ REIG	CDTI	Introduction, and organization logistics
Incremental Technologies PPUs (Chair: CDTI)	9:15-9:30	Fernando	PINTÓ	Airbus Defence & Space	PPU activities in Airbus DS Space Equipment
	9:30-9:45	Guillaume / Javier / Nicoletta	GLORIEUX / PALENCIA / WAGNER	Airbus Defence & Space (FR / ES / DE)	PPU developments for Incremental Technologies (HET / GIE / H common building blocks
	9:45-10:00	Frédéric	VARASTET	Safran Electronics & Defense	Safran PPU roadmap
	10:00-10:15	Eric	BOURGUIGNON	Thales Alenia Space Belgium	GEO Dual Mode PPU and LEO HEMPT PPU
Coffee break	10:15-10:45		l		
Incremental Technologies (Chair: BELSPO)	10:45-11:00	Farid	INFED	ArianeGroup	Shape Memory Alloy Valve – New Technology for Telecom Sat
	11:00-11:15	Michel	POUCET	Bradford Engineering BV	Development of the Next-Generation Fluid Management Tech LEO, GEO & Navigation Satellites
	11:15-11:30	Kevin	HALL	QinetiQ	Development of a Ring Cusp high power thruster
	11:30-11:45	Mariano	ANDRENUCCI	SITAEL S.p.A.	DEVELOPMENT OF A 20 kW CLASS HALL THRUSTER FOR SPAC TRANSPORTATION AND EXPLORATION
	11:45-12:00	Daniele	PAVARIN	University of Padua	Helicon research at University of Padua and T4i
	12:00-12:15	Pablo	FAJARDO	Universidad Carlos III Madrid	An advanced simulation code for Hall effect thrusters
	12:15-12:30	Jochen	SCHEIN	Universität der Bundeswehr/Transmit	RIT technology for space debris removal
		Eric	BOURGUIGNON	Thales Alenia Space Belgium	
Round table "Trends in Power Processing Units" (Chair: ESA)		Luca	BENETTI	SITAEL S.p.A.	
	12:30-13:15	Fernando	PINTÓ	Airbus Defence & Space	
		Alain	DEMAIRÉ	OHB Sweden	
		Matthias	GOLLOR	ESA	
Lunch break	13:15-14:15		L		
Disruptive Thruster Technologies I (Chair: CNES)	14:15-14:30	Franz Georg	HEY	Airbus Defence & Space	Electric Propulsion Opportunities for Future Scientific Explorat
	14:30-14:45	Alberto	GARBAYO	AVS Added Value Solutions	Disruptive EP technologies at AVS
	14:45-15:00	Georg	HERDRICH	Baylor University/ Institut für Raumfahrtsysteme (IRS)	Overview on IRS electric and advanced electric propulsion act
	15:00-15:15	Luc	HERRERO	COMAT	Vacuum arc thruster development
	15:15-15:30	Jean-Luc	MARIA	EXOTRAIL	Exotrail miniature HET for CubeSats
Disruptive Thruster Technologies II (Chair: CDTI)	15:30-15:45	Christophe	KOPPEL	KopooS Consulting Ind.	Liquid PPT for attitude and orbit control of space vehicles
	15:45-16:00	Francesco	GUARDUCCI	Mars Space Ltd	EP Technologies Development at Mars Space Ltd
	16:00-16:15	Mercedes	RUIZ HARO	SENER	Development and tests of HPT-05
	16:15-16:30	Ane	AANESLAND	ThrustMe	Next generation ion thruster with imbedded neutralizaiton and
	16:30-16:45	Luis	CONDE	Universidad Politécnica de Madrid	Development and current status of the ALPHIE (Alternative Lo Engine) plasma thruster
Coffee break	16:45-17:15		L		EriBine) bigging curaces
Disruptive Transversal Technologies (Chair: ASI)	17:15-17:30	Angel	POST	Advanced Thermal Devices (ATD)	C12A7:e- ELECTRIDE. A PROMISING MATERIAL FOR IONIC THI
	17:30-17:45	Fabrizio	SCORTECCI	AEROSPAZIO Tecnologie s.r.l.	Standardisation and Improvement of EP Diagnostics
	17:45-18:00	Alexander	REISSNER	ENPULSION	Industry 4.0 Meets Space - Establishing a production line for 1
	18:00-18:15	Marcelo	COLLADO	ARQUIMEA	per year. Shape Memory Alloy Technologies for Electric Propulsion Valv
	18:15-18:30	Stephen	GABRIEL	University of Southampton	Electric propulsion activities at the university of Southampton: and Disruptive
Workshop Conclusions	18:30-18:45	José	GONZÁLEZ DEL AMO	ESA	EPIC Workshop conclusions
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EPIC Workshop presentations

They will be available on our EPIC web epic-src.eu/

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Many thanks!!

