

**"Technologies for making space  
accessible and safe to operate"**

**April 26th - 27th, 2016**



Rolex Learning Center

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# *“Technologies for making space accessible and safe to operate”*

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*Eurospace RDT Priorities Workshop 2016*

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## *Day one - April 26<sup>th</sup> 2016*

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*From 14,00 to 18,30*

### **Welcome Lunch**

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*From 12,00 to 13,30*

### **Opening speeches**

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#### Welcome speeches

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- Workshop opening address
  - Marco Fuchs - Eurospace President
- Workshop welcome address
  - Daniel Neuenschwander – Head Swiss Space Office

#### Keynote speeches

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- Marian-Jean Marinescu –European Parliament, Sky & Space Intergroup Vice-Chair
- Pierre Delsaux–EC DG Grow Deputy Director General

#### Eurospace Technology Priorities

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- The process& the people behind industry priorities
  - Pierre Lionnet – Eurospace Research Director
- Challenges, drivers and key technology areas
  - Eurospace Space Research and Technology Committee Representatives

## Session one: A space technology strategy in the European space policy context

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### Coffee break

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*From 15,30 to 16,00*

### Round table one - Governance for space technology policies

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- **Keywords:** *Technology policy, technology coordination, technology programmes and budgets*
  - Moderator:
    - Luigi Pasquali – Eurospace Vice-President
  - Panellists:
    - Pierre Delsaux–EC DG Grow Deputy Director General
    - Franco Ongaro – ESA, Director of Technical and Quality Management
    - Hubert Reile – DLR, Program Director for Space Research and Technology
    - Roberto Battiston – ASI, President
    - Marc Pircher – CNES, Director of Centre Spatial de Toulouse

### Round table two- Technology prioritization, priorities and programmes

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- **Keywords:** *Technology priorities, technology readiness, IOD/IOV, technology roadmaps, breakthrough, innovation*
  - Moderator:
    - Peter Guggenbach – Eurospace Vice-President
  - Panellists:
    - Apostolia Karamali – EC DG GROW, Deputy Head of Space Research and Policy Unit
    - Eike Kircher – ESA, Head of Technology Research Programme
    - Klaus Steinberg – DLR, Space Administration, Head of Technology Coordination
    - Marc Pircher – CNES, Director of Centre Spatial de Toulouse
    - Udo Becker – ESA, Head of General Technology Support Programme

### Close of day keynote

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- Marco Fuchs – Eurospace President

### Evening: social event, cocktail and walk in dinner

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*From 18,30 to 23,00*

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# Day 2 - April 27<sup>th</sup> 2016

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From 9,00 to 17,30

## Welcome and opening

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- Jean-Jacques Tortora - – Eurospace Secretary General

## Session two: Key trends and drivers in space technology

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### Round table one -Key payload technology trends for competitiveness in applications

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- **Keywords:** *Payloads and system aspects applications (ILC, NAV & EO), mission enabling technologies, key technology areas, key synergy domains, key mission areas, competitiveness, core competences, competitiveness, dependence issues*
  - Moderator:
    - Serge Flamenbaum – Eurospace Technology Harmonisation Panel Co-Chair
  - Panellists:
    - Bruno Le Stradic – Airbus Defence & Space, Head of Products and Engineering
    - Gherardo Calini – GSA, Head of Market development
    - Guy Perez – OHB, CTO
    - Lionel Suchet – CNES, Director Innovation, Applications and Science
    - Dietmar Schmitt– ESA, Head of Technologies and Products Division Telecommunications Technologies
    - Patrick Mauté – Thales Alenia Space, CTO
    - Philippe Goudy – ESA, Head of the ESA Earth Observation Projects Department

## Coffe break

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From 11,00 to 11,30

### Round table two -Key System and technology trends for the spacecraft bus

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- **Keywords:** *Electric propulsion, REACH compliance, large propulsion, key spacecraft function, system optimization, AOCs, Propulsion system(s), Power system(s), System design,dependence issues, competitiveness, core competences*
  - Moderator:
    - Yves Durand – Eurospace Technology Policy WG Co-Chair
  - Panellists:
    - Carla Signorini – ESA, Head of Electrical Engineering Department
    - Giorgio Saccoccia– ESA, Head (acting) of Mechanical Engineering Department

- Markus Peukert – OHB, Head Propulsion Systems
- Michael Pavloff – RUAG, CTO
- Jean-Marc Astorg – CNES, Director for Launchers

## Lunch

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*From 13,30 to 14,30*

### Round table three - Key trends for innovation and breakthrough

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- **Keywords:** *Low TRL, breakthrough, advanced system concepts, innovation, game changers, new manufacturing, new materials, new processes, environmental concerns, dependence issues, system design, competitiveness, core competences*
  - Moderator:
    - Rolf Janovsky – Eurospace Technology Harmonisation Panel Co-Chair
  - Panelists:
    - Frédéric Safa – ESA, Head of the Future Mission Office in the Science Programme
    - Emmanouil Detsis – ESF, ESSC Science Support
    - Franziska Zeitler – DLR, Innovation & New Markets
    - Jesus Marcos-Olaya – Inasmet Tecnalia, Space, Security & Defense Director
    - Mikko Nikulainen – ESA, Head of the Components Technology & Space Materials Division
    - Tony Holt – SSTL, Engineering Director

## Coffee break

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*From 15,45 to 16,15*

### Round table four - The data challenge

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- **Keywords:** *Critical dependence, EEE components, critical materials, compression, software, algorithm, ground segment, optical technologies, laser communications etc.*
  - Moderator:
    - Giampaolo Preti - Eurospace Technology Policy WG Co-Chair
  - Panelists:
    - Erich Auer– TESAT, CTO
    - Jean-Claude Souyris – CNES, Head of Spin-off and Technologies
    - António Gutierrez Peña – Deimos, Head of Ground Systems
    - Jean-Louis Cazaux – ESCC, Chair of the Components Technology Board
    - Massimo Comparini – Telespazio, CTO
    - Wolfgang Scheidler – EDA, JTF
    - Wolfgang Veith – ESA, Head of Product Assurance and Safety

## Closing speech

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- Franco Ongaro – ESA, Director of Technical and Quality Management

*Workshop ends at 17,30*