“Technologies for making space accessible and safe to operate”

April 26th - 27th, 2016

Rolex Learning Center
“Technologies for making space accessible and safe to operate”

Eurospace RDT Priorities Workshop 2016

Day one - April 26th 2016

From 14,00 to 18,30

Welcome Lunch

From 12,00 to 13,30

Opening speeches

Welcome speeches

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

Keynote speeches

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

Eurospace Technology Priorities

- 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

Coffee break

From 15.30 to 16.00

Round table one - Governance for space technology policies

- **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
    - Hubert Reile – DLR, Program Director for Space Research and Technology
    - Marc Pircher – CNES, Director of Centre Spatial de Toulouse

Round table two - Technology prioritization, priorities and programmes

- **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

- Marco Fuchs – Eurospace President

Evening: social event, cocktail and walk in dinner

From 18.30 to 23.00
Welcome and opening

- Jean-Jacques Tortora - Eurospace Secretary General

Session two: Key trends and drivers in space technology

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

- **Keywords:** Payloads and system aspects applications (TLC, 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
    - Patrick Mauté – Thales Alenia Space, CTO
    - Philippe Goudy – ESA, Head of the ESA Earth Observation Projects Department

Coffee break

From 11,00 to 11,30

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

- **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 Saccoecia – ESA, Head (acting) of Mechanical Engineering Department
Lunch

*From 13,30 to 14,30*

Round table three - Key trends for innovation and breakthrough

- **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

*From 15,45 to 16,15*

Round table four - The data challenge

- **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

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

*Workshop ends at 17,30*