

**ESA Coordinated Final Presentation Days (CFPDs) - 21st/22nd November 2016:
Preliminary Programme**

(version 17th October 2016)

1st Day: Monday, 21st November 2016 Registration, Morning and Afternoon Sessions

08:30 - 09:15	Registration	
ROOMS: Newton 1 and 2 (Rooms separate but sound and video from Newton 1 relayed into Newton 2)		
09:15 - 09:30	Opening address: F. Ongaro , Head of D/TEC and ESA/ESTEC, ESA-ESTEC	
09:30 - 09:50	Background on CFPDs and Programme Overview, TRP and GSTP Technology Overview; D/TEC Initiatives to improve dissemination of technology achievements. TEC-T, ESA-ESTEC	
09:50 - 10:15	Networking and Coffee Break: 25 mins (setting up parallel presentation tracks and setting up of poster boards)	
Newton 1 ROOM	Session 1A	
10:15 - 13:00	Competence Domain: Avionic Architecture / DHS / OnBoard S/W / FDIR / GNC / AOCS / TT&C (E2E): (TD05, TD06)	
10:15 - 10:30	Introduction to the Competence Domain Speaker: Jean-Loup Terrillon (ESA, TEC-S)	
10:30 - 11:05	Star Sensing based Safe Mode	Fabrice Boquet (ESA, TEC-ECC) Kirsten Lagadec (Airbus DS)
11:05 - 11:40	Multispectral sensing for relative navigation	Olivier Dubois-Matra (ESA, TEC-ECN) Marco Esposito (Cosine)
11:40 - 12:15	European IMU breadboard	Jeroen Vandersteen (ESA, TEC-ECC) Stève Masson (Airbus DS)
12:15 - 12:50	Pointing Error Engineering Software Framework	Massimo Casasco (ESA, TEC-ECN) Andreas Wiegand (Astos Solutions)
	All Presentations from European Industry	
Newton 2 ROOM	Session 1B	
10:15 - 13:00	Competence Domain: End-to-end RF & Optical Systems and Products for Navigation, Communication & Remote Sensing (TD06, TD07, TD16, TD17)	
10:15 - 10:30	Introduction to the Competence Domain Speakers: Riccardo de Gaudenzi (ESA, TEC-ET) & Luca Maresi (ESA, TEC-MMO)	
10:30 - 11:05	Advanced laser ranging technologies for altimetry	Michael Jost (ESA, TEC-MME) Marco Esposito (Cosine)
11:05 - 11:40	Large Aperture Telescope Technology	Alessandro Zuccaro (ESA, TEC-MMO) Daniele Gallieni (A.D.S. International)
11:40 - 12:15	Polishing and cryogenic testing of a brazed optical quality SiC mirror	Volker Kirschner (ESA, TEC-MMO) Volker Kirschner (ESA, TEC-MMO)
12:15 - 12:50	STREEGO Innovative Solutions for High Resolution Small Satellites	Luca Maresi (ESA, TEC-MMO) Giovanni Bianucci (Media Lario Technolgies)
	All Presentations from European Industry	
13:00 - 14:00	Lunch Break: 60 Mins (+Poster exhibition)	
Newton 1 ROOM	Session 2A	
14:00-15:30	Competence Domain: Avionic Architecture / DHS / OnBoard S/W / FDIR / GNC / AOCS / TT&C (E2E): (TD05, TD06)	
14:00 - 14:40	TT&C S-Band Transponder Demonstrator - Ranging and Doppler	Massimo Bertinelli (ESA, TEC-ETC) Cédric Lehobey (Syrlinks)
14:40 - 15:30	Trends in Telemetry Systems	Massimo Bertinelli (ESA, TEC-ETC) Massimo Bertinelli (ESA, TEC-ETC)
	Presenters: European Industry and ESA Technical Officers	
Newton 2 ROOM	Session 2B	
14:00-15:30	Competence Domain: End-to-end RF & Optical Systems and Products for Navigation, Communication & Remote Sensing (TD06, TD07, TD16, TD17)	
14:00 - 14:40	Hypercube	Alessandro Zuccaro (ESA, TEC-MMO) Marco Esposito (Cosine)
14:40 - 15:30	PARIS Interferometric Technique - Proof of Concept	Manuel Martin Neira (ESA, TEC-ETP) Manuel Martin Neira (ESA, TEC-ETP)
	Presenters: European Industry and ESA Technical Officers	
15:30 - 16:00	Coffee Break: 30 mins (+ Poster exhibition)	
Newton 1 ROOM	Session 3A	
16:00 - 18:00 (35 mins)	Competence Domain: Electric Architecture / Power & Energy / EMC (TD03, TD07)	
16:00 - 16:15	Introduction to the Competence Domain Speaker: Ferdinando Tonicello (ESA, TEC-E)	
16:15 - 16:50	Solar Simulator Product Development	Ferdinando Tonicello (ESA, TEC-E) Hjalti Thorvardarson (Rovsing)
16:50 - 17:25	Leo PCDU Evolution Engineering Model (EM)	Sven Landstroem (ESA, TEC-EP) José Luis Herranz Jiménez (CRISA)
17:25 - 18:00	Qualification of fully European 3G30 bare solar cell with integral diode up to Solar Cell Assembly level	Emilio Fernandez Lisbona (ESA, TEC-EPG) Wolfgang Güter (Azur Space)
	All Presentations from European Industry	
Newton 2 ROOM	Session 3B	
16:00 - 18:00 (40 mins)	Competence Domain: End-to-end RF & Optical Systems and Products for Navigation, Communication & Remote Sensing (TD06, TD07, TD16, TD17)	
16:00 - 16:40	Advanced propagation tool for satellite ATM & aeronautical communications	Nicola Flourey (ESA, TEC-EEP) Joël Lemorton (ONERA)
16:40 - 17:20	Mitigation of RF blackout for re-entry vehicles	Marco Sabbadini (ESA, TEC-EEA) Prof. Vecchi (ISTITUTO SUPERIORE MARIO BOELLA)
17:20 - 18:00	GSTS (Ground to Space Threat Simulator)	Pietro Giordano & Rigas Ioannides (ESA, TEC-ETN) Samuele Fantinato (Qascom), Luca Canzian (Qascom)
	All Presentations from European Industry	
18:00 - 20:00	CFPDs Cocktail Reception (Invited) + Poster exhibition	

2nd Day: Tuesday, 22nd November 2016 Morning and Afternoon Sessions

Newton 1 ROOM		Session 4A		Newton 2 ROOM		Session 4B	
09:00 – 11:00 (35 mins)	Competence Domain: Propulsion, Space Transportation and Re-entry Vehicles (TD15, TD18, TD19, TD20, TD21)			09:00 – 11:00 (35 mins)	Competence Domain: Structures / Mechanisms / Materials / Thermal (TD20, TD15, TD24, TD21)		
09:00 - 09:15	<i>Introduction to the Competence Domain</i> Speaker: Samir Bennani (ESA, TEC-ECN)			09:00 - 09:15	<i>Introduction to the Competence Domain</i> Speaker: Olivier Pin (ESA, TEC-MTT)		
09:15 - 09:50	Advanced foam for cryogenic tank insulation	Jan Persson (ESA, TEC-MTT)	Filipe Conceição (Active Aerogels)	09:15 - 09:50	Demonstrator of Carbon anisogrid payload adapter	Stefan Kiryenko (ESA, TEC-MSS)	Victor Diaz Morales (Airbus DS)
09:50 - 10:25	Rapid Assessment of Design Impact on Debris Generation	Irene Huertas (ESA, TEC-ECN)	Sven Weikert (Astos Solutions)	09:50 - 10:25	Composite Space Structures Modelling and Analysis Software	Robert Knockaert (ESA, TEC-MSS)	Frédéric Cugnon (Siemens/Samtech), Ludovic Ballere (Airbus Safran Launchers)
10:25 - 11:00	Enhanced Power Sources compatible with extended thermal environment	Brandon Buergler (ESA, TEC-EPB)	Yvan Reynier (CEA)	10:25 - 11:00	Impact of thermo-mechanical loading history on mechanical properties and verification of aerospace materials	Denis Neves (ESA, TEC-MSS)	Hermann-Josef Starmans (Intales), Prof. Thomas Seifert (Offenburq University of Applied)
All Presentations from European Industry				All Presentations from European Industry			
11:00 – 11:30	Coffee Break: 30 mins (+Poster exhibition)			11:00 – 11:30	Coffee Break: 30 mins (+Poster exhibition)		
Newton 1 ROOM		Session 5A		Newton 2 ROOM		Session 5B	
11:30 – 13:00 (30 mins)	Competence Domain: Propulsion, Space Transportation and Re-entry Vehicles (TD15, TD18, TD19, TD20, TD21)			11:30 – 13:00 (30 mins)	Competence Domain: Structures / Mechanisms / Materials / Thermal (TD20, TD15, TD24, TD21)		
11:30 - 12:00	Development of a fuel/oxidiser compatible diaphragm	Christopher Hunter (ESA, TEC-MPC)	Carola Bauer (MT Aerospace)	11:30 - 12:00	Passive Damped Deployment of Full Composite Structures	Gonçalo Rodrigues (ESA, TEC-MSS)	José Nieto (Comet Engineering)
12:00 - 12:30	Advanced Particle Filter	Dirk Greuel (ESA, TEC-MPC)	Tor-Arne Grönland (Nanospace)	12:00 - 12:30	Zero Boil Off propulsion system feasibility demonstration	Thierry Tirolien (ESA, TEC-MTT)	Thierry Tirolien (ESA, TEC-MTT)
12:30 - 13:00	ESA-milli Newton FEEP	Jose Gonzalez del Amo (ESA, TEC-MPE)	Alexander Reissener (FOTEC)	12:30 - 13:00	Multiple-evaporator multiple-reservoir Loop Heat Pipe	Stephane Lapensee (ESA, TEC-MTT)	Paula Prado Montes (IberEspacio)
All Presentations from European Industry				Presenters from European Industry and ESA Technical Officer			
13:00 – 14:00	Lunch Break: 60 Mins (+Poster exhibition)			13:00 – 14:00	Lunch Break: 60 Mins (+Poster exhibition)		
Newton 1 ROOM		Session 6A		Newton 2 ROOM		Session 6B	
14:00 - 15:45 (35 mins)	Competence Domain: Propulsion, Space Transportation and Re-entry Vehicles (TD15, TD18, TD19, TD20, TD21)			14:00 - 15:45 (35 mins)	Competence Domain: Structures / Mechanisms / Materials / Thermal (TD20, TD15, TD24, TD21)		
14:00 - 14:35	Storable Propulsion Demonstrator	Jean-Noel Caruana (ESA, LAU-LEF)	Andreas Goetz (Airbus Safran Launchers)	14:00 - 14:35	Small Scale Cooler	Thierry Tirolien (ESA, TEC-MTT)	Martin Crook (RAL)
14:35 - 15:10	Cryotanks Demonstrators	Adriana Sirbi (ESA, LAU-LEF)	Daniel Zell (MT Aerospace)	14:35 - 15:10	Heat Pump conceptual study and design	Stephane Lapensee (ESA, TEC-MTT)	Henk Jan van Gerner (NLR)
15:10 - 15:45	Hybrid Propulsion Demonstrator	Jean-Noel Caruana (ESA, LAU-LEF)	Adrien Boiron (NAMMO)	15:10 - 15:45	Development of thermal insulation for planetary landers and rovers	Stephane Lapensee (ESA, TEC-MTT)	Stephane Lapensee (ESA, TEC-MTT)
All Presentations from European Industry				Presenters from European Industry and ESA Technical Officer			
15:45 – 16:00	Coffee Break: 15 mins			15:45 – 16:00	Coffee Break: 15 mins		
Newton 1 ROOM		Session 7A		Newton 2 ROOM		Session 7B	
16:00 - 18:00 (35 mins)	Competence Domain: EEE / Components / Photonics / MEMS (TD23, TD17, TD06)			16:00 - 18:00 (40 mins)	Competence Domain: Structures / Mechanisms / Materials / Thermal (TD20, TD15, TD24, TD21)		
16:00 - 16:15	<i>Introduction to the Competence Domain</i> Speakers: Laurent Marchand (ESA, TEC-QT) & Kyriaki Minoglou (ESA, TEC-MME)			16:00 - 16:40	Sustainable materials concepts	Thomas Rohr (ESA, TEC-QT)	Christian Stenzel (Airbus DS)
16:15 - 16:50	Embedded passive component: a way to miniaturization	Denis Lacombe (ESA, TEC-QTC)	Maarten Cauwe (IMEC)	16:40 - 17:20	Near-sun mission heat-shield material assessment	Laurent Pambaguian (ESA, TEC-QTM)	Volker Liedtke (AAC)
16:50 - 17:25	Resistance to solvents of Non-Hermetic Components encapsulation materials	Liam Murphy (ESA, TEC-QTC)	Stavros Tsantzalis (Univ Patras)	17:20 - 18:00	Metal Matrix Composites (MMCs) as high performance metallic material	Laurent Pambaguian (ESA, TEC-QTM)	Nils Stelzer (AAC)
17:25 - 18:00	Validation and experimental verification of ESA MEMS qualification methodology	Nicolas Saillen (ESA, TEC-QTC)	Pedro R. Coelho (Lusospace)	All Presentations from European Industry			
ROOMS: Newton 1 and 2 (Rooms separate but sound and video from Newton 1 relayed into Newton 2)							
18:00 - 18:15	CFPDs Wrap-up session and CFPD future events						