

**ESA Space Engineering & Technology Final Presentation Days (SET-FPDs) - 23rd/24th May 2017:
Preliminary Programme**

(version 18/05/2017)

1st Day: Tuesday, 23rd May 2017 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)		
09:00 – 09:15	Opening address: Franco Ongaro, Head of D/TEC and ESA/ESTEC, ESA-ESTEC	
09:15 – 09:50	Background on SET-FPDs and Programme Overview, TRP and GSTP Technology Overview; D/TEC Initiatives to improve dissemination of technology achievements. TEC-T, ESA-ESTEC - Udo Becker (ESA, TEC-T), Paul McManamon (ESA, TEC-TI)	
09:50 – 10:00	10 mins (setting up of parallel presentation tracks)	
Newton 1 ROOM	Session 1A	Newton 2 ROOM
10:00 – 11:30	CD 1: EEE/Components/photronics/MEMS Session on Detectors & Detector Filters	10:00 – 11:30
10:00 – 10:20	Introduction to the Competence Domain Speaker: Kyriaki Minoglou, Laurent Marchand	10:00 – 10:20
10:20 – 10:55	Low dark current 2D IR MCT detector Kyriaki Minoglou (ESA, TEC-MME) Stefan Hanna (AIM)	10:20 – 10:55
10:55 – 11:30	Enhanced CCD Design and Process ESCC Evaluation Mustapha Zahir (ESA, TEC-EDC) Peter Turner (Teledyne e2v)	10:55 – 11:30
	All Presentations from European Industry	
11:30 – 11:50	Coffee Break: 20 mins	11:30 – 11:50
Newton 1 ROOM	Session 2A	Newton 2 ROOM
11:50 – 13:00	CD 1: EEE/Components/photronics/MEMS Session on Detectors & Detector Filters	11:50 – 13:00
11:50 – 12:25	Atomic Layer Deposition of Detector Anti-Reflection Coatings Alessandra Ciapponi (ESA, TEC-MME) Peter Turner (Teledyne e2v)	11:50 – 12:25
12:25 – 13:00	Co-doped CeBr3 demonstration Alessandra Ciapponi (ESA, TEC-MME) Francesco Quarati (Gonitec)	12:25 – 13:00
	All Presentations from European Industry	
13:00 – 14:00	Lunch Break: 60 Mins	13:00 – 14:00
Newton 1 ROOM	Session 3A	Newton 2 ROOM
14:00-15:45	CD 1: EEE/Components/photronics/MEMS Session on Optical Communications	14:00-15:45
14:00 – 14:35	Miniaturised Imaging Laser Altimeter - MILA Clemens Heese (ESA, TEC-MME) Jacques Haesler (CSEM)	14:00 – 14:35
14:35 – 15:10	AIM OPTEL-D concept definition study Clemens Heese (ESA, TEC-MME) Willem Coppoolse (Thales Alenia Space)	14:35 – 15:10
15:10 – 15:45	Prototype ASIC for SiPM-based gamma-ray detector Nicholas Nelms (ESA, TEC-MME) Dirk Meier (Ideas)	15:10 – 15:45
	All Presentations from European Industry	
15:45 – 16:15	Coffee Break: 30 mins	15:45 – 16:15
Newton 1 ROOM	Session 4A	Newton 2 ROOM
16:15 – 17:25	CD 1: EEE/Components/photronics/MEMS Session on Read-Out Electronics	16:15 – 17:00
16:15 – 16:50	Prototype ASIC for NIR Large Format Array Nicholas Nelms (ESA, TEC-MME) Hans Berge (Ideas)	16:15 – 17:00
16:50 – 17:25	JUICE Radiation Monitor Sensor Readout ASIC & Jovian Rad-Hard Electron Monitor Proto-Flight Model Sam Verstaen (ESA, SCI-PRS) Timo Stein (Ideas)	
	All Presentations from European Industry	
17:30 – 19:30	SET-FPDs Cocktail Reception (Invited)	

2nd Day: Wednesday, 24th May 2017 Morning and Afternoon Sessions

Newton 1 ROOM	Session 5A	Newton 2 ROOM	Session 5B
09:00 – 11:05	CD 1: EEE/Components/photronics/MEMS Session on Photonics and MEMS	09:00 – 11:05	CD 3: Avionic Architecture:/DHS/OnBoard SW/ FDIR /GNC/end-to-end TT&C
09:00 – 09:35	Photonic RF filtering Nikolaos Karafolas (ESA, TEC-MME) Miguel Piqueras (DAS Photonics)	09:00 – 09:20	Introduction to the Competence Domain (ESA) Speaker: Jean-Loup Terraillon
09:35 – 10:10	Opto-microwave based front-end for a multi-beam large direct radiating array antenna Nikolaos Karafolas (ESA, TEC-MME) Miguel Piqueras (DAS Photonics)	09:20 – 09:55	EGRET: Next Generation High Rate Telemetry Daniel Arapoglou (ESA, TEC-EST) Guido Montorsi (Politecnico di Torino)
10:10 – 10:45	Wales: Wafer Level Encapsulation for micro-Systems Laurent Marchand (ESA, TEC-EDC) Michel Despont (CSEM S.A.)	09:55 – 10:30	Entry, descent and landing communication technology (ECOMTEC) Sergio Carrasco (ESA, TEC-EST) Gabriele Donà (Thales Alenia Spaces Italia)
10:45 – 11:05	<i>Wrap-up and main discussion points from CD1 (Laurent Marchand and Kyriaki Minoglou)</i>	10:30 – 11:05	Satellite Vulnerability Test Bed (SVTB) Knut Eckstein (ESA, TEC-ETC) Andrea Dalla Chiara (Qascom S.r.l.) / Knut Eckstein (ESA-TEC-ETC)
	All Presentations from European Industry		All Presentations from European Industry
11:05 – 11:25	Coffee Break: 20 mins	11:05 – 11:25	Coffee Break: 20 mins
Newton 1 ROOM	Session 6A	Newton 2 ROOM	Session 6B
11:25 – 13:00	CD 9: Digital Engineering for Space Missions	11:25 – 13:00	CD 3: Avionic Architecture:/DHS/OnBoard SW/ FDIR /GNC/end-to-end TT&C
11:25 – 11:45	Introduction to the Competence Domain Speaker: Benoit Laine and Joachim Fuchs (ESA, TEC-MTV)	11:25 – 12:00	High Density European Rad-Hard SRAM-Based FPGA- First Validated Prototypes – BRAVE David Merodio (ESA, TEC-EDM) Joel Le Mauff (NanoXplore)
11:45 – 12:20	Automatic Behaviour Detection and Interpretation from low Level Data Sets such as Telemetry Alessandro Donati (ESA, OPS-OSA) Attilio Brighenti (S.A.T.E S.r.l.)	12:00 – 12:35	GR740 microprocessor Roland Weigand (ESA-TEC-EDM) Magnus Hjorth (Cobham Gaisler AB)
12:20 – 12:55	Augmented Reality for AIT, AIV and Operations David Martinez Oliveira (ESA, TEC-SWG) Kaj Helin (VTT)	12:35 – 13:00	POCKET+: A real-time, on-board housekeeping telemetry compression algorithm David Evans (ESA, OPS-OSA) David Evans (ESA, OPS-OSA)
	All Presentations from European Industry		All Presentations from European Industry
13:00 – 14:00	Lunch Break: 60 Mins	13:00 – 14:00	Lunch Break: 60 Mins
Newton 1 ROOM	Session 7A	Newton 2 ROOM	Session 7B
14:00 – 15:45	CD 9: Digital Engineering for Space Missions	14:00 – 15:45	CD 2: Structures, Mechanisms, Materials, Thermal
14:00 – 14:35	Formal approach to Space System Data Modelling Serge Valera (ESA, TEC-SWM) Inge Lemmens (PNA)	14:00 – 14:15	Introduction to the Competence Domain Speaker: Tomasso Ghidini (ESA, TEC-MSP)
14:35 – 15:10	Interoperability for Space Environment Analysis Tools Fabrice Cipriani (ESA, TEC-EES) Karl Dietrich Bunte (Etamax space)	14:15 – 14:45	Friction Stir Welded Low Cost Titanium Propellant Tank Andrew Norman (ESA, TEC-MSP) Alex Robelou (TWI)
15:10 – 15:45	Multi-disciplinary assessment of Design for Demise techniques Tiago Soares (ESA, TEC-SYE) Tobias Lips (HTG GmbH)	14:45 – 15:15	Investigation of Friction Stir Welding of Aluminium Lithium Alloys for Manufacturing Spacecraft Propellant Tanks Andrew Norman (ESA, TEC-MSP) Renato Bellarosa, (Airbus DK)
	All Presentations from European Industry	15:15 – 15:45	Development of Aluminium-Titanium Tube Joints for Space Propulsion Systems Andrew Norman (ESA, TEC-MSP) Abdelfattah Mostafa (Omnidea-RTG)
	All Presentations from European Industry		All Presentations from European Industry
15:45 – 16:00	Coffee Break: 15 mins	15:45 – 16:00	Coffee Break: 15 mins
Newton 1 ROOM	Session 8A	Newton 2 ROOM	Session 8B
16:00 – 16:50		16:00 – 16:50	CD 2: Structures, Mechanisms, Materials, Thermal
		16:00 – 16:25	3D printing of a model building block for a lunar base outer shell Advenit Makaya (ESA, TEC-MSP) Alexandre Meurisse (DLR)
		16:25 – 16:50	Limited resources manufacturing technologies Advenit Makaya (ESA, TEC-MSP) Christoph Buchner (FOTEC)
			All Presentations from European Industry
ROOMS: Newton 1 and 2 (Rooms separate but sound and video from Newton 1 relayed into Newton 2)			
16:50 – 17:05	SET-FPDs Wrap-up session and SET-FPD future events		

2nd Day: Wednesday, 24th May 2017 Morning and Afternoon Sessions	
Einstein ROOM	Session 5C
09:15-11:05	TTPO Demonstrators: Spin-out
09:15 - 09:35	Introduction to the Technology Transfer Programme Office Spin-out initiative Speaker: Lluc Diaz (ESA, TEC-ST)
09:35 - 09:50	Spacecraft bearing technology for rotating magnetrons Lluc Diaz (ESA, TEC-ST) William Holmes (ESR Technology)
09:50 - 10:05	Earth application of TIMEPIX space radiation monitor in centralized network Lluc Diaz (ESA, TEC-ST) Benedikt Bergmann (IEAP CTU in Prague)
10:05 - 10:20	Porous material Analysis Toolbox applied to Biomass pyrolysis for the Energy Transition Lluc Diaz (ESA, TEC-ST) Vincent Leroy (the von Karman Institute)
10:20 - 10:35	LTMS-Diving Lluc Diaz (ESA, TEC-ST) Josia Wacker (CSEM SA)
10:35 - 10:50	EU Technology transfer demonstrator Made4sports Lluc Diaz (ESA, TEC-ST) Artaniasios Baltopoulos (Adamant Composites)
10:50 - 11:05	Space micro-fabrication processes and surface treatments for Healthcare Lluc Diaz (ESA, TEC-ST) Jan-Willem Hoste (Ghent University)
	All Presentations from European Industry
11:05 - 11:25	Coffee Break: 20 mins
Einstein ROOM	Session 6C
11:25 - 13:00	Meet & Greet with Technology Transfer Programme Office <i>In this session ESA Technology Transfer Office representatives will be at your disposal to speak about the projects and to respond to questions regarding the different tools of the programme, specially the Technology Transfer Demonstrators.</i>
11:25 - 13:00	Meet & Greet with Technology Transfer Programme Office Lluc Diaz, Nuria Hernandez and Mercedes Sanchez. (ESA, TEC-ST)
13:00 - 14:00	Lunch Break: 60 Mins
Einstein ROOM	Session 7C
14:00 - 15:45	Meet & Greet with TRP & GSTP Technology Programme Management <i>In this session ESA Technology Programme Office representatives will be at your disposal to discuss the technology programme.</i>
15:10 - 15:45	Technology Programmes - ITI, TRP, GSTP and splinter meetings Paul McManamon, Olivier Perat, Matthew Bullock, Udo Becker, Eike Kircher (ESA, TEC-T(I))
15:45 - 16:00	Coffee Break: 15 mins
16:00 - 16:50	
ROOMS: Newton 1 and 2 (Rooms separate but sound and video from Newton 1 relayed into Newton 2)	
16:50 - 17:05	SET-FPDs Wrap-up session and SET-FPD future events