



	 Modelling and Simulation of Radiation Effects In-orbit Experiences and flight heritage of analogue and mixed-signal ICs Radiation-hardened technologies for analogue ICs Analogue Intellectual property and re-usability of analogue circuits in space 		Custom cell-, circuit- and system design of ICs for space applications Space Applications for analogue and mixed-signal ICs Evaluation of analogue and mixed-signal ICs Packages, Assembly and Supply Chain	
	Tuesday, 25 May Session 1. Chair: Boris Glass	Wednesday, 26 May Session 4. Chair: David Levacq	Thursday, 27 May Session 7. Chair: Agustin Fernandez-Leon	Friday, 28 May Session 10. Chair: Boris Glass
	13:30 Welcome and Introduction (B. Glass)	13:30 PROMISE, PROgrammable Mixed Signal ASIC Electronics Framework (L. Berrojo)	13:30 LIROC: a Novative RadHard Front-End ASIC for Space Lidar (J. Fleury)	13:30 Single-Event Transient Ionized Charge and Pulse Duration Characterization in a Commercial 65nm CMOS Technology (Z. Li)
14:00	13:55 A simulation and evaluation scheme for Single Event Effects in VLSI (Y. Lu)	13:55 Integration of two High-Performance Mixed- Signal Data Conversion IPs (G. Leger)	13:55 Concept Design and Realization of the Next Generation Magnetometer Front-End ASIC (M. Scherzer)	13:55 Electrical and Radiation Test Results of Pulse Width Modulator in CMOS-SOI (K. Makris)
	14:20 DPC micro-controller reaches TRL9 (A. Van- Esbeen) Moved to Wed. 17:20	14:20 Functional Validation and Evaluation of the MAS-FE testchip (L. Veljovic)	14:20 APOCAT - PMT and SiPM Readout ASIC for High- Rate X-ray Spectroscopy in Space (D. Meier)	14:20 Radiation Characterisation of the GNSS Front- end SY1009 (A. Consoli)
	14:40 Coffee Break	14:40 Coffee Break	14:40 Coffee Break	14:40 Coffee Break
15:00	Session 2. Chair: Juergen Beister	Session 5. Chair: Richard Jansen	Session 8. Chair: Roland Weigand	Session 11. Chair: Karin Lundmark
	15:00 ESCC Capability Approval of a Mixed-Signal ASIC Supply Chain (J. Steinkamp)	15:00 Single chip dc-dc controller with high volume input (M. Fossion)	15:00 Voltage Clamp IC for Protection, Regulation and Mitigation of Failure Propagation (V. Burkhay)	15:00 Radiation Test for the Evaluation of the Static Non-Linearity Parameters of the COTs 16-bit SAR ADC LTC2387 from Linear Technology (A. Jalón-Victori)
	15:25 Applicability of FinFET Technologies for Space Applications (D. Alexandrescu)	15:25 Research on ADC Architectures Suitable for Space Applications and Technology Scaling (E. Pun-García)	15:25 GR716 Rad-Hard Microcontroller For Space Applications (F. Johansson)	15:25 IM485A Mixed-Signal Analog/Digital ASIC design Development & Qualification based on IDMOS rad-hard XH035 library (C. Rosenberger)
16:00	15:50 Integrated supply chain for Power IC in BCD6s SOI for ASIC and ASSP (T. Brunet)	15:50 Single chip GaN half-bridge with integrated drivers (M. Fossion)	15:50 Small Hybrid DC/DC Converter Controller Based on Innovative Rad-Hard PWM IC (V. Burkhay)	15:50 European Supply Chain For Plastic Encapsulated Microcircuits for Space Applications (M. Booker)
	16:10 Coffee Break	16:10 Coffee Break	16:10 Coffee Break	16:15 Summary and Farewell
	Session 3. Chair: David Levacq	Session 6. Chair: Boris Glass	Session 9. Chair: Richard Jansen	
	16:30 ATMX150RHA: MICROCHIP Qualified Radiation- hardened technology for analogue and mixed-signal ICs (P. Charpentier)	16:30 DARE65 Phase-Locked Loop Design (S.N. Kim)	16:30 A cost and Size Optimized Motor Control Solution using Radiation Hardened AFE + Micropocessor Circuits (S. Spanoche)	
17:00	16:55 ATMX150RHA Building Blocks -Block Presentation and Measurement Results (J. Fleury)	16:55 MICROCHIP Radiation-hardened mixed-signal ARM Cortex M7 MCU - a key step for autonomous non-volatile system control (Y. Bricard)	16:55 LUCA: a Dynamic Latch-Up Current Protector ASIC (T. Delmot)	
	17:20 Validation of an Analog Mixed-Signal Library (K. Makris)	17:20 DPC micro-controller reaches TRL9 (A. Van Esbeen)	17:20 Update on the Development of the Rad-Hard TM/TC MS-ASIC (E. Pun-García)	