SUNDAY OCTOBER 01

18:00 - 20:00	Welcome Cocktail (pre-Registration) Archaeological Museum Elche	18:00 - 20:00

MONDAY OCTOBER 02

9:00 - 10:40	**Tutorial: SURFACE power delivery, the future of High-Performance Computing** *José A. Cobos (UPM. Differential Power)* Main auditorium	**Tutorial: Solar cells for space application & Nuclear power** *Stephen Taylor (ESA), Christophe Fongland (ESA)* Conference room	**Tutorial: Space Debris Mitigation Standard Evolution and impact on power design subsystem** *Sara Morales (ESA)* *Room S1*	9:00 - 10:40
10:40 - 11:10	Special Coffee Break courtesy of Microchip Exhibition Hall			10:40 - 11:10
11:10 - 12:50	**Tutorial: Common failures reference catalogue** *Ferdinando Tonicello (ESA)* Main Auditorium	**Tutorial: Solar cell degradation in space due to particle irradiation** *Carsten Baur (ESA)* Conference room	**Tutorial: Development of new technologies matching European regulations on materials** *Ugo Lafont (ESA)* *Room S1*	11:10 - 12:50
13:00 - 14:30	Lunch Hotel Huerto del Cura			13:00 - 14:30
14:45 - 15:00	**Inaugural Speech from Conference Chair, City Council and UMHE** *Véronique Ferlet-Cavrois - ESPC 2023 Conference Chair - European Space Agency* *Pablo Ruz Villanueva - Major City of Elche* *Juan José Ruiz Martínez - Chancellor University Miguel Hernández de Elche* Main Auditorium			14:45 - 15:00
15:00 - 15:40	**Plenary session chaired by Véronique Ferlet-Cavrois and Ferdinando Tonicello (ESA)** **Plenary talk 1: The Artemis I mission (1st part). Power system of the Service Module (2nd part).** *Carlos Garcia-Galán (NASA) and Arturo Fernández (ESA)* Main Auditorium			15:00 - 15:40
15:40 - 16:10	**Plenary talk 2: Challenges of human and robotics space exploration** *Stéphanie Lizy - Destrez (ISAE-SUPAERO)* Main Auditorium			15:40 - 16:10
16:10 - 16:40	**Plenary talk 3: Photovoltaics on Earth vs. Space** *David Lackner and Jens Ohlmann (Fraunhofer ISE)* Main Auditorium			16:10 - 16:40
16:40 - 17:00	Special Coffee Break courtesy of Microchip Exhibition Hall			16:40 - 17:00
17:00 - 18:20	**Plenary talk 4: Historic evolution of the Power System for Space application in Europe** *Moderated by José Antonio Carrasco (UMHE) and Ferdinando Tonicello (ESA)* *Alan Weinberg (former ESA), Ed Bongers (former Airbus DS Netherlands), Albert Crausaz (former ESA), Geoffrey Dudley (former ESA)* Main Auditorium			17:00 - 18:20
18:20 - 20:20	Exhibition Cocktail Exhibition Hall			18:20 - 20:20

TUESDAY OCTOBER 03

9:00 - 10:40	**System 1 (MO1a)** *Nicolas Neugnot (ADS)* Main auditorium	**Solar array performance and design (I) (GO1)** Emanuele Ferrando (SpaceTech GmbH), Rainer Müller (ADS) Conference room	**Components 1 (MO1b)** Sven Landstroem (ESA) Room S1	**BATTERIES - Cells and Materials Part 1 (EO1)** Vanessa Armel (Saft), Rachel Buckle (ABSL Space Products) Room S2	9:00 - 10:40
	Quasi-Regulated bus for deep space missions *Daniele Renzoni (OHB)*	**Design and development of JUICE Solar array** *Martin Kroon (ADS)*	**TPS7H1111-SP 1.5-A, Ultra-Low Noise, High PSRR Radiation Hardened Low Dropout Linear Regulator** *Kyle Rakos (TI)*	**Dual phase high entropy oxide based on AlFeCoNiCu as advanced anode material for lithium-ion batteries with self-healing properties** *David Csik (Slovak Academy of Sciences)*	
	Europa Clipper Power Subsystem Implementation and Lessons Learned *Brandon Burns (JPL)*	**MSR-ERO Solar Array** *Jens Müller (ADS)*	**Impact of Single Event Effects on Modern COTS DC-DC Buck Converter ICs** *Philipp Mand (ESA)*	**Design of advanced niobium pentoxide anodes for Lithium-ion batteries operating at low-temperature conditions** *Asenbauer Jakob (ESA)*	
	High voltage power bus: solar array power conversion and power distribution *Ausias Garrigos (Elche University)*	**The Plato Sunshield Solar Array** *Stefano Riva (Beyond Gravity)*	**Impact of Radiation on a GaN FET capable PWM Controller IC Prototype for Space Applications** *Volodymyr Burkhay (SpaceIC)*	**CFx_MnO2 hybrid cathode for Lithium primary batteries used in landers** *Louise Dauga (University Clermont Auvergne)*	
	A Power Engineer View on Space Based Solar Power *Henri Barde (ESA retiree)*	**Consistent approach of predicting the degradation of solar cells due to particle irradiation** *Carsten Baur (ESA)*	**GR716B: mixed-signal rad-hard microcontroller for switching power and motor control** *Mikael Ekström (Frontgrade Gaisler)*		
10:40 - 11:10	Special Coffee Break courtesy of SpaceTech GmbH Exhibition Hall				10:40 - 11:10
11:10 - 12:50	**DCDC 1 (MO2a)** Giulio Simonelli (ESA) Main auditorium	**Solar array performance and design (II) (GO2)** David Lackner (Fraunhofer), Paolo Fidanzati (Leonardo) Conference room	**EP 1 (MO2b)** Matthias Gollor (ESA) Room S1	**BATTERIES - Cells and Materials Part 2 (EO2)** Aurore Carre (ESA), Jakob Asenbauer (ESA) Room S2	11:10 - 12:50
	On the design of sequentially switched DCX converters for solar array regulation: S3ZVZCS *Carlos Orts (University of Elche)*	**HERA Photovoltaic Assembly - low intensity characterisation of large area triple-junction solar cells** *Giorgio Tesser (Leonardo)*	**Analysis and Design of a Radio Frequency Generator for Gridded Ion Technology Thruster** *Miguel Astudillo Martínez (UPM)*	**High energy density solid state batteries based on Li metal anode** *Armel Vanessa (Saft)*	
	bPOL48V, a rad-hard 48V DC/DC Converter for Space and HEP Applications *Nils van der Blij (CERN)*	**High efficiency solar array for high power solar electric propulsion missions** *Raimond Foekema (ADS)*	**Evaluation of the Qucs Software for MSR-ERO Electric Propulsion Power Processing Assembly Modelling and Design Check** *Dominique Nicolas (ESA)*	**High Specific Energy VL10ES cell qualification status** *Yannick Borthomieu (Saft)*	
	Low Voltage, High Current Power Converter for High Power Integrated Circuit *Patrick Dubus (ISD SA Greece)*	**Development of Solarflex and testing of Engineering Model** *Eric Garcin (TAS)*	**Comparative of different Direct Drive architectures** *Pablo Fernandez Miaja (University of Oviedo)*	**VES16 - Cell and Battery Safety** *Jacky Clemente (Saft)*	
	Microchip SA50-28 isolated power module: a new dc to dc platform for RH and RT space power *Amit Gole (Microchip)*	**Sparkwing catalogue solar arrays for small sats** *Martin Kroon (ADS)*	**New developments, technologies and status for high power Gridded Ion Thrusters Power Processing Units** *Marcos Nunez (Airbus)*		
13:00 - 14:30	Lunch Hotel Huerto del Cura				13:00 - 14:30
14:45 - 16:00	**Round Table: Power and SAVOIR reference architecture and interfaces** F. Tonicello (ESA) Main auditorium	**Round Table: Future solar cells for space** A. Caon (ESA), S. Taylor (ESA), C. Baur (ESA) Conference room		**Round Table: Space Fuel Cell, Electrolyser and Regenerative Fuel Cell - Nuclear in Space** B. Buergler (ESA), C. Fongarland (ESA) Room S2	14:45 - 16:00
16:00 - 16:20	Special Coffee Break courtesy of SpaceTech GmbH Exhibition Hall				16:00 - 16:20
	Poster Session Chaired by David Marroquí (UMHE) Outside of Conference Centre				
	Power Management	**Power Generation**		**Power Storage and Nuclear**	

	Smart Battery Modules for distributed electrical power systems	Quantitative photoluminescence inspection of solar cells and photovoltaic assemblies for quality assurance in space applications	SPARK, a supercapacitor-based pyrotechnic actuator dedicated to extreme environments	
	Modular Power Conditioning and Distribution Unit within the Advanced Data & Power Management System	About why the argument that claims that the electric field in a pn junction is the responsible of the photovoltaic effect is wrong	Pouch cell in space behaviour assessment	
	MicroSADA-18 development of one axis solar array drive mechanism for small satellites	SmallSat Solar Array Product Line at Hemeria	Overview of the development of Graphene-based energy storage from material to system level	
	HERA EPS Design Challenges	INTEGRAL: Solar Array in-orbit performance analysis and power prediction	VL10ES Batteries Safety Test	
	High Voltage on PCB study	First Flight of a New Test Facility for Solar Cell Characterization in the Stratosphere	Off-The-Shelf (OTS) 28V battery for rockets and small-sats	
16:20 - 18:00	Flexible base power and isolation unit for robotic payloads	Electrical Perfomance Results of multi-junction space solar cells under High Temperature High Intensity Environmental Conditions	State of health estimation of lithium-ion batteries based on incremental capacity and pulse analysis	16:20 - 18:00
	Accurate Controllable 325W Laser Diode Driver for Optical Inter-Satellite Links	Space welding process for terrestrial silicon heterojunctions solar cells	Emerging Applications and Open Challenges for Graphene-based Catalytic Inks for Membrane Electrode Assemblies	
	Evolution of in-orbit health management strategy for GEO satellite lithium-ion battery	On the performance and use of the Large Area Multi-junction Solar Array Tester: HighLIGHT SAT	Production of Americium Oxide using the Americium and Plutonium Purification by Extraction Process (AMPPEX)	
	ADS SpE Fr - New Space Electronics for OneSat Avionics	Solar Cell Impedance Measurement: leveraging test equipment modernization to obtain equivalent circuit model of multijunction solar Cells	Feasibility evaluation on European Capabilities for 238Pu based radioisotope power systems	
	External Battery Charging and Thermal Management for Deep-Space Micro-Satellite: DART & LICIACube Missions	Study of the causes of degradation of space III-V multijunction solar cells at reverse bias operation	Influence of the Thermal Transient Response of Thermoelectric Generators in Maximum Power Point Tracking Algorithms	
	Design and Optimization of Reconfigurable High-Voltage Power Supply with Interlock Function	Investigation of thin Poly-Si/SiOx passivated contact p-type silicon cells radiation hardness & annealing	Proof-of-concept of a novel internal heating method using integrated heating wires in a battery electrode	
	Spacecraft Wireless Solar Array Drive Assembly Based on Magnetically Coupled Wireless Transmission Technology	Adaptive 3J/4J flasher system to measure multi-junction photovoltaics for space applications		
18:10 - 20:30	Touristic visit Elche, courtesy of Elche's City Council Departure from Conference Centre (walking tour)			18:10 - 20:30

WEDNESDAY OCTOBER 04

	System 2 (MO4b) *Christian Elisabelaer (CNES)* Main auditorium	Solar cells and materials (I) (GO3) Wolfgang Guter (Azur), Navid Fatemi (Rocket Lab) Conference room	Components 2 (MO3b) Salvo Pappalardo (ST) Room S1	BATTERIES (EO3) Aakesh Data (OHB), Yannick Borthomieu (Saft) Room S2	
	Statistical Sizing of a Satellite Power Subsystem *Manon Huguenin (ADS)*	**Flexible and Lightweight III-V Space Multijunction Solar Cells with High Power Density** *Carlos Algora (UPM)*	**Impact of Radiation on a Point-of-Load IC Prototype for Space Applications** *Volodymyr Burkhay (SpaceIC)*	**Li-ion Battery hard passivation** *Eric Pasquier (Saft)*	
9:00 - 10:40	**Quantitative Comparison of Power Architecture for LEO missions** *Pilar Mingorance (ESA)*	**SolAero Space Power Solutions and Product Roadmap** *Alexander Haas (Rocket Lab)*	**Adaptation and control of a latching current limiter based on a SiC N-MOSFET** *Abraham Lopez Antuna (University of Oviedo)*	**Thermal Batteries as Power Sources for Space Applications** *Luc Faget (ASB)*	9:00 - 10:40
	Microsatellite Power System for Deep Space Exploration *Cristian Torres Vergara (University of Elche)*	**Towards high-efficiency ultra-thin GaAs solar cells for space applications. A comparative study of back reflector designs** *Rosalinda van Leest (TF2 Devices)*	**Impact of Radiation on a Voltage Clamp IC Prototype for Space Applications** *Volodymyr Burkhay (SpaceIC)*	**ARTES VL10ES Modular Batteries** *Hélène Tricot (Saft)*	
	Modular EPS for small mobile robotic space systems *Benjamin Hülsen (DFKI)*	**Engineered Ge-on-Ge substrates by bipolar electrochemical etching** *Kristof Dessein (Umicore)*	**Do not harm; a novel methodology to protect electrical failure propagation, applying safety barriers and using modern and inexpensive power electronics devices.** *Pablo Hernandez (ESA)*		
10:40 - 11:10	Coffee Break Exhibition Hall				10:40 - 11:10
	DCDC 2 (MO4a) J.A. Carrasco (UMHE) Main auditorium	Solar cells and materials (II) (GO4) Victor Khorenko (Azur), Erminio Greco (CESI) Conference room	Control 1 (MO3a) Jesus Oliver (ESA) Room S1	BATTERIES - Modelling (EO4) Eloi Klein (TAS), Carl Twaite (ABSL Space Products) Room S2	
	Four-switch buck-boost based module block for highly modular power architecture *Miguel Fernandez Costales (University of Oviedo)*	**GaInP/GaAsP/SiGe Low Ge Alternative Triple Junction for Space** *Jens Ohlmann (Fraunhofer)*	**Decentralized Control for a Fault-Tolerant, Fully Scalable Microprocessor Power Supply for Spacecraft Applications** *Gregory Almeida (INP)*	**Mars Express Lithium Ion Batteries Performance Update** *Geoffrey Dudley (ESA retiree)*	
11:10 - 12:50	**Comparison of 100V-28V Switched-Capacitor DC DC Converters Based on Cascaded Buck, Boost and 3-Level Buck Topologies for Space Application** *Regina Ramos (UPM)*	**Direct Wafer Bonded and Metamorphic Four-Junction Solar Cells for Space Applications** *David Lackner (Fraunhofer)*	**A comparative study on experimental loop gain measurement techniques applied to digitally controlled buck-type power converters** *Christophe Delepaut (ESA)*	**Assessing Lifetime, Performance, and Functionality Impact for CubeSat Battery Packs via Modelling** *Vaclav Knap (Czech Technical University Prague)*	11:10 - 12:50
	ADS SpE Fr - High Efficiency, Versatile and Space Tolerant Point Of Load *Lucien Lecocq (ADS)*	**A New Generation of Quadruple Junction Solar Cells** *Wolfgang Guter (Azur Space)*	**Digital controllers design using the ESA Control Toolbox in MATLAB Simulink** *Angel de Castro (Univ Autonoma Madrid)*	**Physics-based Multiscale Modelling of Lithium-ion Batteries at Low Temperatures** *Joao Cunha (INL)*	
		Reinforced and Doped Epitaxial layers grown from GeCl4 on reusable germanium substrates for multijunction space solar cells *Jinyoun Cho (Umicore)*	**Digital control for a modular system of DC/DC converters for primary distribution system** *Pablo Zumel (Universidad Carlos III de Madrid)*		
13:00 - 14:30	Lunch Hotel Huerto del Cura				13:00 - 14:30
	PCDU 1 (MO6b) Alberto Lazzeretti (LDO) Main auditorium	Solar array and materials (III) (GO5) Kristof Dessein (Umicore), Antonio Martí (UPM) Conference room	Electric Propulsion 2 (MO5b) Andreas Franke (ESA) Room S1	BATTERIES - Test (EO5) Yannick Borthomieu (Saft), Jakob Asenbauer (ESA) Room S2	
	Future PCDU and PCU for new space *Mourad Merabtene (TAS)*	**In-situ and ex-situ study of protons and electrons irradiations of perovskite solar cells** *Carla Costa (CEA)*	**Isolated DC/DC Converter for RF generator of a Power Propulsion Unit: topology comparison based on GaN semiconductors** *Guillermo Núñez Rodríguez (UPM)*	**Analysis of Li-ion cells ageing process trough ECM characterization, statistics and Machine-Learning algorithms** *Desireé Ruiz Ponce (Fundacion Centro Tecnologico)*	
14:45 -					14:45

16:00	**Isolated Auxiliary Power Supply Designs Using COTS Components** *Nils van der Blij (CNES)*	**Low Sheet Resistance Conductive Coatings For Space Applications** *Glenn M Jones (Qioptiq Space Technology)*	**Satellite Electrical Power Subsystem for Direct-Drive Electrical Propulsion** *Benjamin Spitaels (TAS)*	**High-precision coulometry used in combination with X-ray imaging and spectroscopy for rapid assessment of lithium-ion batteries fade behavior** *Alexander Dimitrijevic (UCL/ESA)*	- 16:00
	Microsatellite Solar Array Regulator Digital Twin Development and Validation *Pablo Casado Perez (UMHE)*	**4 Ways Porous Germanium substrates for Multi-Junction Solar Cells can generate business opportunities for the European Satellite supply chain** *Bendix De Meulemeester (Umicore)*	**A Robustness Analysis of PPU Anode Power Supply To Hall-effect Thruster Flickering Phenomenon** *Dominique Nicolas (ESA)*		
		The silicon heterojunction photovoltaic array: a promising technology for space *Romain Cariou (CEA)*			
16:00 - 16:20	Coffee Break Exhibition Hall				16:00 - 16:20
	DCDC 4 (MO6a) Hans Jensen (Terma) Main auditorium	**Radiation effects on solar cells (GO6)** Ana Gras (Inta - Spasolab), Sophie Duzellier (Onera) Conference room	**Control 3 (MO5a)** Christophe Delepaut (ESA) Room S1	**FUEL CELLS Part 1 (EO6)** Brandon Buergler (ESA), Géraldine Palissat (ESA) Room S2	
16:20 - 18:00	**High Power Density Sequential Switching Shunt Regulator Module** *Berk Ince (UZAI)*	**Effective annealing of proton and electron radiation damage in ultra-thin Silicon solar cells** *Yana Gurimskaya (Solestial)*	**MPPT Finite-State Supervisor for Electrical Power System Management in LEO Satellites** *Salvatore Sagnelli (AVIO)*	**Regenerative Fuel Cell System breadboard for Lunar Night Survival at TRL 4+ (2019-2022)** *Dmitry Bokach (Clara Venture Labs)*	16:20 - 18:00
	Smart Power Supply for FPGA and SoC *Markus Plattner (Engineering Minds Munich)*	**Irradiation degradation of partly shielded III-V multijunction cells** *Manuel Wildfeuer (ADS)*	**An On-line Detection Optimization Method of SSPC Based on Transient Temperature Analysis** *Yonggang Chen (Academy of Space Tec. Beijing)*	**Regenerative fuel cells for lunar night survival** *Alessandro Bacchini (TAS)*	
	Power Unit for High Power Radars and Altimeters *Erik Mache (Advanced Space Power Equipment)*	**Comprehensive study of performance & defects of Silicon Heterojunction solar cells under electron irradiation** *Océane Guillot (CEA)*	**Impacts of distributed power consumption on the power system stability for a huge power satellite** *Kang Li (Academy of Space Technology Beijing)*	**Simplifications in Regenerative Fuel Cell Systems enabled by inclusion of a static water vapour feed high pressure PEM electrolyser subsystem** *Bjarte G. B. Solheim (Clara Venture Labs)*	
18:15 - 20:20	Cocktail, sponsored by Airbus Huerta del Cura				18:15 - 20:20

THURSDAY OCTOBER 05

	DCDC 3 (MO7a) Erich Strixner (ADS) Main auditorium	**In-orbit performance (GO7)** Christian Elisabelar (CNES), Gianfelice D'Accolti (ESA) Conference room	**Distribution 1 (MO7b)** Sergio Alia (Beyond Gravity) Room S1	**FUEL CELLS Part 2 (EO7)** Brandon Buergler (ESA), Géraldine Palissat (ESA) Room S2	
9:00 - 10:40	**Modular converter analysis and design for the standardization of the power bus in satellites** *Abraham Lopez Antuna (University of Oviedo)*	**Galileo Solar Arrays In-orbit Performance Analysis and Power Prediction using PEPS** *Pier Luigi Coz (ESA)*	**Comparative analyses of distribution by LCLs and fuses for 100V application** *Mourad Merabtene (TAS)*	**High pressure Solid Oxide Electrolysis for Lunar In-Situ Resource Utilisation using a novel nickel-free fuel electrode** *Ivar Wærnhus (Clara Venture Labs)*	9:00 - 10:40
	A Comparison of Technologies for the Implementation of Low Voltage, High Current Power Converters for High Power Integrated Circuits *Alan Mathewson (ISD Aerospace Ltd)*	**Calibration of solar cells: CASOLBA 2022s flight review** *Loris Ibarrart (CNES)*	**Towards higher current and voltage LCLs** *David Marroqui (UMHE)*	**Solid oxide electrolysis of CO2 for in situ resource utilization on Mars** *Veronika Reckova (Clara Venture Labs)*	
	On the implementation of a DC-DC Power Supply for Reducing Electromagnetic Interference from Power Converters and Filters *José Carrasco (UMHE)*	**Monitoring the in flight performance of solar arrays for the BepiColombo mission** *Stephen Taylor (ESA)*	**LCL performances based on GaN transitors** *Mourad Merabtene (TAS)*	**Solid Oxide Fuel Cells for Ice Giant Exploration** *Ivar Wærnhus (Clara Venture Labs)*	
	Battery Discharge Regulator based on Weinberg Topology for High Power Communication Satellites *Emre Cetin (UZAY)*	**In flight data of Integral assembled solar cells** *Roberta Campesato (CESI)*		**Membrane Electrode Assemblies Based on Platinum-Cobalt-Ceria Doped Graphene Oxide for PEMFCs Applications** *Adriana Marinoiu (ICSI)*	
10:40 - 11:10	Coffee Break Exhibition Hall				10:40 - 11:10
	GaN 1 (MO8a) Mourad Merabtene (TAS) Main auditorium	**Solar array performance and design (III) (GO8)** Francesco Faleg (Leonardo), Vicente Díaz (DHV) Conference room	**Control 2 (MO8b)** Esteban Sanchis (UV) Room S1	**NUCLEAR: Future missions needs innovative applications and products (NO1)** Stephanie Barron (ESA), Christophe Fongarland (ESA) Room S2	
11:10 - 12:50	**High efficiency GaN based Resonant reset Forward Converter with Synchronous rectification for Space applications** *Miguel Gonzalez (TAS)*	**SpaceTech Solar Array Experience in Series Production** *Emanuele Ferrando (Spacetech)*	**Hardware-In-the-Loop model design using the ESA Control Toolbox in MATLAB Simulink** *Angel de Castro (Univ. Autonoma Madrid)*	**Radioisotope Power Sources: A Novel Approach to Ice Mining on the Moon** *Hannah Sargeant (University of Leicester)*	11:10 - 12:50
	GaN FET-based, scalable DCDC converter development for space and stratospheric applications *László Bagó (C3S LLC)*	**SolarCube: An origami-inspired lightweight deployable solar panel for nano satellites** *Alessandro Buscicchio (Polytechnic University Bari)*	**Analog Global MPPT Techniques for Complex I-V Curves** *Cristian Torres Vergara (UMHE)*	**Am-241 Powered Dynamic Radioisotope Power System (DRPS) for Long Duration Lunar Rovers** *Alessandra Barco (University of Leicester)*	
	GaN Based Solar Power Regulator *Andreas Isaksson (ASP)*	**A deployable membrane-based 100W Solar Array for SmallSats** *Tom Sproewitz (German Aerospace Center)*	**SMPT: a sequential MPPT approach for power bus management in space vehicles** *Luigi Schirone (Sapienza University of Rome)*	**Development of a Small Low-Power Radioisotope Thermoelectric Generator Using the General Purpose Heat Source** *Chris Whiting (University of Dayton)*	
		On-orbit Demonstration of Lightweight Solar Array Paddles by Destinity Spacecraft *Hiroyuki Toyota (JAXA)*	**A new generation of MPPT based on GaN for EVO PCDU** *Pablo Lopez Cenamor (ADS)*	**PULSAR Project** *Nicolas Delannay (Tractebel)*	
13:00 - 14:30	Lunch Hotel Huerto del Cura				13:00 - 14:30
	PCDU 2 (MO9a) Ferdinando Tonicello (ESA) Main auditorium	**Solar cells and components testing (GO9)** Bernard Boulanger (TAS), Emilio Fernández (ESA) Conference room	**System 3 (MO9b)** Jon Caudepon (OHB) Room S1	**NUCLEAR: Capabilities and development in Europe (part 1) (NO2)** Stephanie Barron (ESA), Christophe Fongarland (ESA) Room S2	

14:45 - 16:00	**Innovative COTS Based PCU Solution for Telecommunications Market** *Pablo Lopez Cenamor (ADS)*	**High temperature accelerated life tests for GaInP/GaAs/Ge solar cells: forward versus forward-reverse bias** *Manuel Vásquez (UPM)*	**Generic High Power System for manned missions to the Moon and beyond** *Emilio Lapena (ADS)*	**UK Development of Radioisotope Power Systems (RPS)** *Gemma Mathers (National Nuclear Laboratory)*	14:45 - 16:00
	High-Power Modular Power Conditioning and Distribution Unit for an Integrated Microsatellite Avionics Stack *Quentin Mannes (DSI)*	**Assessment of Spectrally Matched Cells** *Ana Gras (INTA-Spasolab)*	**Generational Change of EMC Verification in Japanese Spacecraft Power Supply Systems** *Toru Kasai (JAXA)*	**Ensuring the safety of European missions with radioisotope power systems** *Remy Croxatto (ArianeGroup)*	
	MSR ERO: PCDU & PPU Subsystem *Pablo Lopez Cenamor (ADS)*	**Characterization and early qualification activities on Si planar blocking diodes** *Emanuele Ferrando (Spacetech)*	**On the Electrical Power System of the ASTROBIO CubeSat** *Luigi Schirone (Sapienza University of Rome)*	**Research in Support of European Radioisotope Power System Development at the European Commission's Joint Research Centre** *Daniel Freis (European Commission)*	
16:00 - 16:20	Coffee Break Exhibition Hall				16:00 - 16:20
16:20 - 18:00	**PCDU 3 (MO10a)** **Electrical Propulsion 3 (MO12b)** Pablo Lopez (ADS) Main auditorium	**Solar array performance prediction (GO10)** Claus Zimmermann (ADS), Martin Kroon (ADS) Conference room	**Units 1 (MO10b)** Mihalis Tourloukis (ESA) Room S1	**NUCLEAR: Capabilities and development in Europe (part 2) (NO3)** Stephanie Barron (ESA), Christophe Fongarland (ESA) Room S2	
	PLATO PCDU Design with Maximum Power Point Tracking *Hans Jensen (Terma)*	**Understanding and managing solar cell mismatch losses through statistical evaluation and simulation** *Patrick Hornung (ADS)*	**Power and Synchronization Unit for Cameras in Space Applications** *Felice Forrisi (ASP)*	**Pu238 Production Feasibility in Europe** *Ruben Van Parys (Tracetebel)*	16:20 - 17:05
	A High Voltage and High Power PCDU for Space *Xue long Hou (Shenzhen Aerospace New Power Technology)*	**Power Performance Implications of a Different Binning Strategy** *Emanuele Ferrando (Spacetech)*	**Modular Architecture for a Control Unit for a Martian Robotic Arm** *Luca Zerilli (Leonardo)*	**Heat Source Architecture of a Radioisotope Power System within the PULSAR project** *Benjamin Turquais (CEA)*	
	ADS SpE Fr - New Space Modular and Versatile PPU 1 to 20kW *Florent Guedon (ADS)*	**Solar cell grading analysis and related impact to the solar array power** *Pierluigi Coz (ESA)*	**Centralized Power Supply Unit for Active Antenna RF equipment** *Miguel Perez (Sener)*	**Motor 1 (MO12b)** Tim Strous (ESA) Room S2	
	A Multifunctional Power Processing Unit (M-PPU) that drives multiple thrusters of different types. *Erik Mache (ASP)*		**Flexible buck-converter design using the new ST Rad-hard Power MOSFET** *Giuseppe Camonita (STMicroelectronics)*	**A Dual Three-Phase DC-Link Inverter Prototype Powering a Redundant Space Robotics Motor Drive** *Tilman Wimmer (DLR)*	17:05 - 18:00
				Integrated Power Solution for Electrical Motor Control in TVC Actuation Applications *Shane O`Donnell (MicroChip)*	
19:00 - 19:30	Transport to Hotel Meliá Alicante From Congress Centre (c/ Eugeni D'Or) to Hotel Meliá Alicante				19:00 - 19:30
19:30 - 20:30	Cocktail Pre-Gala Dinner (sponsored by Azur Space Solar Power)				19:30 - 20:30
20:30 - 24:00	Gala Dinner (Music sponsored by SAFT)				20:30 - 24:00
24:00 - …	Transport back to Elche From Hotel Meliá Alicante to Congress Centre (c/ Eugeni D'Or)				24:00 - …

FRIDAY OCTOBER 06					
10:15 - 10:45	Coffee Breakfast Exhibition Hall				10:15 - 10:45
10:45 - 12:25	**Battery Electronics (MO11a)** Brieuc De Smet (ESA) Main auditorium	**Other concepts (Solar Arrays) (GO11)** Mitsuru Imaizumi (Sanjo City Univ), Stefano Riva (Beyond Gravity) Conference room	**Simulation 1 (MO11b)** Bruno Samaniego (ESA) Room S1	**GaN 2 (MO12a)** Arturo Fernandez (ESA) Room S2	
	Development of an Active Battery Management System for Spacecraft *Alberto Nunez (Abengoa)*	**High-Efficiency 1064 nm Metamorphic Photonic Power Converters for Spacecraft Wireless Power Transfer** *Carmine Pellegrino (Fraunhofer)*	**Co-simulation of Electrical propulsion and power systems in Direct Drive applications** *Pablo Fernandez Miaja (University of Oviedo)*	**GaN based PCDU for MSR ERO Mission** *Mario Gomez Alonso (ADS)*	
	The Impact of Modern Battery Cell Technologies on Spacecraft DNEL functionality *Tim Strous (ESA)*	**Manufacturing of a novel micro-concentrator prototype and assessment of its electrical performances** *Victor Vareilles (CEA)*	**Fully transient energy balances on EcosimPro** *Jon Caudepon (OHB)*	**Size and Efficiency Improvements Using GaN FETs** *Jeremy Ferrell (VPT, Inc.)*	10:45 - 12:25
	End-of-Life Battery Passivation Management System for Small Satellite Constellations in LEO and GEO *Davide Istria (Argotec)*	**Validating a new solar cell performance prediction tool for space applications against ground tests** *Soufian Yjjou (TRAD Tests & Radiations)*	**Open-Source GUI for Fast Prototyping of Magnetic Components based on Planar Conductors** *Alberto Delgado (UPM)*	**ADS SpE Fr - Multipurpose power cell with GaN FETs for PCU** *Hugues Colas (ADS)*	
	A new battery cell simulator and main frame for EGSE Equipment *Adam Kiss (Rovsing)*		**A complete approach on validating satellite electrical and power sub-system using Systema** *Camille Sanchez (ADS)*	**COTS-Based modular BLDC power stage using GaN-FETs for robotic space application** *Benjamin Hülsen (DFKI)*	
12:30- 14:00	Farewell Cocktail Hotel Huerto del Cura				12:30 - 14:00