

SUNDAY 2nd October				
16:00			Installation of exhibition and posters	Check-in and on-site registration
17:00				
18:00	Welcome cocktail, courtesy of SAFT			
19:00				
20:00				

MONDAY 3rd Oct.				
08:00	Welcome coffee			Check-in and on-site registration
09:00	Opening Plenary Session		Installation of exhibition and posters	
10:00				
11:00				
12:00				
13:00	Lunch			
14:00	Exhibition opening and poster session			
15:00	Coffee break, courtesy of CESI			
16:00	Round Table Regenerative Fuel Cells for Exploration	Round Table Units Power Margin Policy	Round Table Electric Propulsion Cost Reduction	
17:00	Conference Opening Cocktail, courtesy of TERMA			
18:00				
19:00				

TUESDAY 4 Oct.				
09:00	Tutorial Space Power Basics (1)	Tutorial GaN and SiC for Power (1)	Tutorial Passivation (1)	Check-in and on-site registration
10:00			Industry session 1 (1)	
11:00	Coffee break			
12:00	Tutorial Space Power Basics (2)	Tutorial GaN and SiC for Power (2)	Tutorial Passivation (2)	
13:00	Lunch			
14:00	Batteries: Mission design and experience (1)	PMD: EEE Components	Solar generators (1)	
15:00	Coffee break, courtesy of Airbus			
16:00	Batteries: Mission design and experience (2)	Nuclear power sources	Solar generators (2)	
17:00			Industry session 2 (2)	

WEDNESDAY 5 Oct.				
09:00	Tutorial Space Power Basics (3)	Workshop Solar Cell Radiations (1)	Workshop COTS (1)	Check-in and on-site registration
10:00			Industry session 3 (1)	
11:00	Coffee break			
12:00	Tutorial Space Power Basics (4)	Workshop Solar Cell Radiations (2)	Workshop COTS (2)	
13:00	Lunch			
14:00	Wide Bandgap Components (1)	Power Systems 1 (1)	Solar cells & generators testing (1)	
15:00	Coffee break, courtesy of Clemessy			
16:00	Wide Bandgap Components (2)	Power Systems 1 (2)	Solar cells & generators testing (2)	
17:00				

THURSDAY 6 Oct.				
09:00	Batteries: Modelling and ground/flight testing (1)	Power Systems 2 (1)	Solar cells 1 (1)	Check-in and on-site registration
10:00				
11:00	Coffee break			
12:00	Batteries: Modelling and ground/flight testing (2)	Power Systems 2 (2)	Solar cells 1 (2)	
13:00	Lunch			
14:00	Future developments in energy storage (1)	DC/DC Converters 1 (1)	Solar generators: mission design (1)	
15:00	Coffee break			
16:00	Future developments in energy storage (2)	DC/DC Converters 1 (2)	Solar generators: mission design (2)	
17:00				
18:00	Transfer by bus from the Porto Palace Hotel to the Gala Dinner venue			
19:00	Cocktail, courtesy of ABSL, and group picture			
20:00	Piano recital, courtesy of Azur Space			
21:00	Gala Dinner			
22:00				
23:00	Transfer by bus to Thessaloniki town center and the Porto Palace Hotel			

FRIDAY 7 Oct.				
10:00	Electrochemical components (1)	High voltage (1)	Solar cells 2 (1)	Check-in and on-site registration
11:00				
12:00	Electrochemical components (2)	High voltage (2)	Solar cells 2 (2)	
13:00	Lunch			
14:00	Fuel cells (1)	DC/DC Converters 2 (1)	Dismantling of exhibition	
15:00				
16:00	Coffee break			
17:00	Fuel cells (2)	DC/DC Converters 2 (2)		
18:00				

ORAL PRESENTATIONS

Topic: Power Generation

Solar Cells – 1 (Thursday 6 October a.m.)

Paper Title	Authors
Metal Matrix Composite Solar Cell Metallization	David M. Wilt, Geoffrey Bradshaw, Lt. Nathan Gap, Omar K. Abudayyeh, Cayla Nelson, Sang Han, Nathanael Cox, Aaron Rape, Brian Landi, Steve Whipple
Next Generation Radiation Hard Immx+ Space Solar Cells	P. Sharps, D. Aiken, B. Cho, S. Cruz, D. Derkacs, N. Fatemi, A. Haas, C. Kerestes, N. Miller, B. Pantha, P. Patel, M. Stan, A. Stavrides, J. Steinfeldt, C. Struempel, S. Whipple
31% European Ingap/Gaas/Ingas Solar Cells For Space Application	Roberta Campesato, Antti Tukiainen , Arto Aho, Gabriele Gori , Riku Isoaho, Erminio Greco , Mircea Guina
Limiting Efficiencies Of Novel Solar Cell Concepts In Space	A. Martí, A.Datas, J.R.González and C. Baur
Space Solar Cells – 3G30 And Next Generation Radiation Hard Products	W. Guter, F. Dunzer, L. Ebel, K. Hillerich, W. Köstler, T. Kubera, M. Meusel, B. Postels, C. Wächter
Advances In Dilute Nitride Multi-Junction Solar Cells For Space Power Applications	F. Suarez, T. Liu, A. Sukiasyan, J. Lang, E. Pickett, E. Lucow, T. Bilir, S. Chary, R. Roucka, I. Aeby, L. Zhang, S. Siala

Solar Cells – 2 (Friday 7 October a.m.)

Paper Title	Authors
Novel Concepts For High-Efficiency Lightweight Space Solar Cells	F. Cappelluti, G. Ghione, M. Gioannini, G. Bauhuis, P. Mulder, J. Schermer, M. Cimino, G. Gervasio, G. Bissels, E. Katsia, T. Aho, T. Niemi, M. Guina, D. Kim, J. Wu, H. Liu
Performance Of Dilute Nitride Triple Junction Space Solar Cell Grown By MBE	Arto Aho, Riku Isoaho, Antti Tukiainen, Ville Polojärvi, Marianna Raappana, Timo Aho, Mircea Guina
Status Of Four-Junction Cell Development At Fraunhofer Ise	D. Lackner, O. Höhn, A.W. Walker, M. Niemeyer, P. Beutel, G. Siefer, M. Schachtner, V. Klinger, E. Oliva, K. Hillerich, T. Kubera, W. Guter, A.W. Bett, F. Dimroth
The Next Generation Of Germanium Substrates: ExpoGer	Pieter Arickx, Rufi Kurstjens, Wim Geens, Kristof Desein
Bol And Eol Characterization Of Azur 3G Lilt Solar Cells For ESA JUICE Mission	Victor Khorenko, Carsten Baur, Gerald Siefer, Michael Schachtner, Seonyong Park, Bruno Boizot, Jacques C. Bourgoin, Mariacristina Casale, Roberta Campesato
Qualification Test Results Of IMM Triple-Junction Solar Cells, Space Solar Sheets , And Lightweight & Compact Solar Paddle	Mitsuru Imaizumi, Tatsuya Takamoto, Naoyuki Kaneko , Shinji Nozaki, Takeshi Ohshima

Solar Generators (Tuesday 4 October p.m.)

Paper Title	Authors
Novel Deployment Mechanism For Conventional Solar Array Enhancement	Paul A. Hodgetts, Jean-Paul Collette, Don de Wilde
Advanced Photovoltaic Development At The U.S. Air Force Research Laboratory	John M. Merrill, David M. Wilt, David Chapman, Geoff Bradshaw, Kyle Montgomery, Nathan Gapp, Bernie Carpenter
In Flight Detection And Localisation Of Short Circuits On Solar Generators	Henri Barde, Emanuelle Carla, Nicolas Neugnot, Etienne Rapp
Ara Mk4 Solar Array Development	Ron van der Ven ,Ed Bongers
Development Of Innovative Mechanical Flexible Solar Array Architecture	Bernard Boulanger , Yannick Baudasse , Francois Guinot, Laurent D'abrigéon, Mikael Thibaudeau , Marina Heim, F. Buffe , Etienne Rapp
Development Of A New, High-Power Solar Array For Telecommunication Satellites	C. G. Zimmermann, A. Bals, A. Übner, F. Schlerka and A. Schindler

Solar Generators: Mission Design (Thursday 6 October p.m.)

Paper Title	Authors
Multijunction Solar Cell Performance In Mars Orbiter Mission(Mom) Conditions	Uma BR, M Sankaran, EP Suresh
Photovoltaic Assemblies For The Power Generation Of The Exomars Missions	Emanuele Ferrando, Pietro Zanella, Stefano Riva, Giulia Damonte, Romano Romani, Luigi Ferrante
Electro Static Discharge Testing On Meteosat 3Rd Generation Photovoltaic Assembly	Giulia Damonte, Giorgio Saltanocchi, Pietro Zanella, Emanuele Ferrando, Stefano Riva, Gianfranco Meniconi, Damiano Pagano, Fabrizio Scortecci
Origin Of The Degradation Of Triple Junction Solar Cells At Low Temperature	Seonyong Park, Jacques Bourgoïn, Olivier Cavani, Victor Khorenko, Carsten Baur, Bruno Boizot
Status Of Solar Generator Related Technology Development Activities Supporting The Juice Mission	Carsten Baur, Victor Khorenko, Gerald Siefer, Virginie Inguibert, Seonyong Park, Bruno Boizot, Jacques C. Bourgoïn, Mariacristina Casale, Roberta Campesato, Hans-Georg Schnell, Andreas Gerhard, Pietro Zanella, Emanuele Ferrando, Xavier Reutenauer, Ed Bongers, Ana Gras
The Bepicolombo Mercury Planetary Orbiter (MPO) Solar Array Design, Major Developments And Qualification	A. Löhberg, C. Grünwald, J. Birkel, A. Brandl, N. Kübler, H. Perrin, T. Andreev, U. Schuhmacher, S. Taylor
Degradation Of Solar Array Components In A Combined Uv/Vuv High Temperature Test Environment	Christel Nömayr, Claus Zimmermann, Premysl Janik, Christopher Semprimoschnig

Solar Cells and Generators testing (Wednesday 5 October p.m.)

Paper Title	Authors
CASOLBA: Balloon Calibration Of Solar Cells	Etienne Rapp, Valérie Pichetto, Christian Elisabelar, Denis Bausch, Carsten Baur
Recent Advances In Synthetic Calibrations Of Multi Junction Solar Cells And Their Corresponding Component Cells.	Florian Witt, Ingo Kröger, Stefan Winter
Direct Comparison Of Ground And In-Flight Measurements Of New Three And Four Junction Solar Cell Technologies	Phillip P. Jenkins, Benjamin Cho, David Wilt, James H. Ermer, Eric Rehder, Daniel Law, Michael J. Krasowski, Lawrence Greer, Joseph Flatico
GaAs Displacement Damage Dosimeter Based On Diode Dark Currents	Jeffrey H. Warner, Scott R. Messenger, Cory D. Cress, Nicolas J-H Roche, Michael Yates, Kenneth Clarke, Mitchell F. Bennett, Phillip P. Jenkins, Robert J. Walters
Subcell Light Current-Voltage Characterization Of Irradiated Multijunction Solar Cell	Don Walker, John Nocerino, Yao Yue, Colin J. Mann, Simon H. Liu
External Quantum Efficiency And First Results Of Electric Performance Measurements On A Quadruple Junction Space Solar Cell	Jüngst G, Gras A, Campesato R, Gori G, Greco E
Simulating Large Area, High Intensity Am0 Illumination – Test Results From Bepicolombo And Solar Orbiter Qualification	C. Oberhüttinger, H. Nesswetter, D. Quabis, C. G. Zimmermann

Nuclear Power Sources (Tuesday 4 October p.m.)

Paper Title	Authors
Exploratory Research On Radioisotope Thermoelectric Generators For Deep Space Missions	D. Freis , J.F. Vigier, K. Popa, T. Wiss, J.-C. Griveau, E. D`Agata, J. Somers
Recent Joint Studies Related To The Development Of Space Radioisotope Power Systems	Daniel P. Kramer , Richard Ambrosi, Mark Sarsfield , Emily Jane Watkinson , Ramy Mesalam , Hugo Williams , Chadwick Barklay , Tim Tinsley, Steve Goodrich, Timothy Pierson, Christofer Whiting
The Separation Of ²⁴¹ Am From Aged Plutonium Dioxide For Use In Radioisotope Power Systems	M.J. Sarsfield, C. Campbell, C. Carrigan, M.J. Carrott, J-Y. Colle, D. Freis, C. Gregson, T.Griffiths, J. Holt , P. Lajarge, C. J. Maher , D. Manara, B. McLuckie , C. Mason , M. Naji, R.J. Taylor, T. Tinsley, J. Somers , K. Stephenson, J-F. Vigier
Investigation On The Use Of Americium Oxide For Space Power Sources: Radiation Damage Studies	T. Wiss, D. Freis, J.-C. Griveau, K. Popa, J.-F. Vigier, J. Somers , E. D`Agata, vR.J.M. Konings, O. Benes, J.-Y. Colle, O. Dieste

Topic: Energy Storage

Batteries: Mission Design and Experience (Tuesday 4 October p.m.)

Paper Title	Authors
Battery For Extended Temperature Range - Exomars Rover Mission	Steve AMOS, Paul BROCHARD
Mars Express Lithium Ion Batteries Performance Analysis	G. Dudley , R. Blake, L. Lucas
Li-Ion Cots Cells For Low Temperature Mars Landers	Rachel Buckle, Carl Thwaite, Sanjay Vijendran, Max Schautz
Saft Ves16 Solution For Small Geo	Emmanuel Bonneau, Stéphane Remy
Performances Of Saft Lithium-Ion Cells In Leo Cycling	D. Prevot, Y. Borthomieu, E. Ligneel, R. Hague, J-P. Peres, C. Cenac-Morthe
Rosetta Lander Batteries Experience During All Operation Phases	Céline Cénac-Morthé, Laurence Mélac, Stéphane Fredon, Laurène Gillot, Philippe Gaudon, Michael Maibaum, Barbara Cozzoni, Valentina Lommatsch, Koen Geurts, Paul Brochard, Alex Clarke

Battery Modelling and Ground / Flight Testing (Thursday 6 October a.m.)

Paper Title	Authors
Accelerating Rate Calorimetry Tests Of Lithium-Ion Cells Before And After Storage Degradation At High Temperature	Omar Samuel Mendoza-Hernandez, Shuichi Taniguchi, Hiroaki Ishikawa, Kohei Tanaka, Seisuke Fukuda, Yoshitsugu Sone, Minoru Umeda
Battery Simulation Tool For Worst Case Analysis And Mission Evaluations	Stéphane Lefeuvre, Abdossamad Benkhalfia, Edouard Mosset, Maria Nestoridi, Olivier Mourra
Lot Acceptance, Abuse And Life Testing Of Varta Lithium Polymer Pouch Cells	Amy Anderson, Alan Kane, Thomas Parry, Alexander Wright
A Novel In-Flight Space Battery Health Assessment System	Brandon Buegler, Francois Bausier
Internal Impedance Of The Lithium-Ion Secondary Cells Used For Reimei Satellite After The Eleven Years Operation In Space	Yoshitsugu Sone, Hiromi Watanabe, Kohei Tanaka, Omar Mendoza-Hernandez, Seisuke Fukuda, Masayuki Itagaki, Keita Ogawa, Kazushi Asamura, Atsushi Yamazaki, Hiroyuki Nagamatsu, Yosuke Fukushima, Hirofumi Saito
Non-Intrusive Battery Health Monitoring	Laurent Gajewski, Celine Cenac Morthe , Aurore Carre , Patrice Simon , Pierre-Louis Taberna

Electrochemical Components (Friday 7 October a.m.)

Paper Title	Authors
Graphene-Based Systems For Enhanced Energy Storage	Aris Amlianitis, Athanasios Masouras, Giorgos Gkikas, Zampia Kalogridi, Athanasios Baltopoulos, Antonios Vavouliotis, Stavros Tsantzas, Giorgos Gkikas, Vassilis Kostopoulos, Ugo Lafont
High Specific Li-Ion Cells Based On High Voltage Materials	E. Ligneel, M. Defer, F. Fischer, E. Dumont, F. Fusalba, M. Chami, V. Gineste, M. Nestoridi
Cathode Materials For High Energy Density Lithium Batteries	G. Lefèvre, J.B. Ducros, M. Nestoridi, F. Renard, J.F. Colin, D. Peralta, M. Chakir, M. Chapuis, S. Martinet
Carbon Tolerant Fuel Electrodes For Reversible SOFC Operating On Carbon Dioxide	Kalliopi Maria Papazisi, Dimitrios Tsiplakides, Stella Balomenou, Ivar Wærnhus, Crina S. Ilea, Arild Vik, Max Schautz
Investigation Of Advanced Components In A High Pressure Single-Cell Electrolyser For The Development Of A HP-PEM-ELY Stack As Part Of A Regenerative Fuel Cell System	D.K.Niakolas, S. Neophytides, C. G. Vayenas, A. Katsaounis, N. Athanasopoulos, S. Balomenou, K.-M. Papazisi, D. Tsiplakides, M. Schautz
Polymeric Electrolyte Membrane Photoelectrochemical (Pem-Pec) Cell With A Web Of Titania Nanotube Arrays As Photoanode And Gaseous Reactants	M.N. Tsampas, T. Stoll, G. Zafeiropoulos

Fuel Cells (Friday 7 October p.m.)

Paper Title	Authors
Carbon Support Corrosion Induced By High Temperature PEMFC Operating Conditions	María Rau, Florina Jung, Carsten Cremers, Jens Tübke
High Temperature PEM Fuel Cell Stacks With Advent TPS MEAS	Stylianos Neophytides, Maria K. Daletou, Nikolaos Athanasopoulos, Nora Gourdoupi
Optimum Energy Management Of Pem Fuel Cell Systems Based On Model Predictive Control	Chrysovalantou Ziogou, Michael C. Georgiadis, Spyros Voutetakis, Simira Papadopoulou
Optimized High Temperature PEM Fuel Cell & High Pressure PEM Electrolyser For Regenerative Fuel Cell Systems In Geo Telecommunication Satellites	Jarle Farnes, Dmitry Bokach, Sander ten Hoopen, Kim Skåtun, Max Schautz, Xavier Geneste, Arild Vik
Regenerative Energy Storage System For Space Exploration Missions	Ivar Wærnhus, Crina S. Ilea, Arild Vik, Dimitrios Tsiplakides, Stella Balomenou, Kalliopi Papazisi, Max Schautz

Future Developments in Energy Storage (Thursday 6 October p.m.)

Paper Title	Authors
Rhombohedral Iron Trifluoride With A Hierarchized Macroporous/Mesoporous Texture From Gaseous Fluorination Of Iron Disilicide	Diane Delbègue, Katia Guérin, Barbara Laik, Jean-Pierre Pereira-Ramos, Moulay-Tahar Sougrati, Céline Cénac-Morthe
Enhanced Power Sources Compatible With Extended Thermal Environment	Yvan Reynier , Florence Fusalba , Julien Labbé, Valery Gineste , Brandon Bürgler
High Specific Energy Lithium Cells For Space Exploration	F. Farmakis, N. Georgoulas, I. Karafyllidis, I. Amoiridis, C. Elmasides, S. Balomenou, D. Tsiplakides, M. Nestoridi
VI51Es (Generation 6) Li-Ion Cell For Satellites	Defer M., Borthomieu Y., Ligneel E., Badet S., Chocinski D.
Beyond Lithium-Ion: Lithium- Sulphur Batteries For Space?	Maria Nestoridi , Henri Barde
High Specific Energy Lithium Sulfur Cell For Space Application	Bruno Samaniego , Emmanuelle Carla , Laura O'Neill , Maria Nestoridi

Topic: Power Management and Distribution

Power Systems – 1 (Wednesday 5 October p.m.)

Paper Title	Authors
ECSS-E-ST&HB-20-20C – A Power Interface Standard & Handbook For Products Development	Ferdinando Tonicello, Bruno Mauret, Hans Jensen, Luciano Croci, Nicolas Deplus, Nicolas Neugnot, Peter Rumler, Tadeusz Kocman
Spacecraft Electrical Passivation - From Study To Reality	François Bausier, Maria Nestoridi, Bruno Samaniego, Juhani Simola, Andrew Wolahan, Julian Austin, Tiago Soares
Passivation Strategies On Board Airbus DS LEO PCDUs	E.Lapeña, D.Ruf, J.L.Herranz, F.Gómez-Carpintero, M.Rodríguez, J.Otero
Power Subsystem Approach For The Europa Mission	Antonio Ulloa-Severino, Gregory A. Carr, Douglas J. Clark, Sonny M. Orellana, Roxanne Arellano, Marshall C. Smart, Ratnakumar V. Bugga, Andreea Boca, Stephen F. Dawson
In-Orbit Trend Analysis Of Galileo Satellites For Power Sources Degradation Estimation	Frederic Bard, Maria Nestoridi, Aurore Carre, Sergio Alia, Aakesh Datta, Olabisi Durodola
Cosmo Sg Sar Antenna Electrical Power Chain And Platform Power Distribution	E. Scorzafava, G. Gianninoto, M. Cantamessa, P. Zanella, D. Cariani, E. Scione

Power Systems – 2 (Thursday 6 October a.m.)

Paper Title	Authors
MPBUS: Modular Power Bus For Space Vehicles	Ricardo Martin, Eduardo Ramirez, Javier Alonso, Eran Priel, Alain Carapelle, Daniel Actis
Functional Study of a Distributed MPPT Power Management System	S. Bifaretti, S. Pipolo, T. F. Catalano, G. Daprati, V. Iacovone, E. Scione
Modeling Of The Section Capacitance To Interface With a S3R	A. Fernandez, J.R Gonzalez
Power System For The Eu:Cropis Satellite - Results From Design Trade-Offs, Analysis, Simulation And Testing	Jakob Fromm Pedersen
The Grace Follow-On Quiet Electrical Power System	Manfred Amann, Mike Gross, Hauke Thamm
Exomars 2016 Mission Electrical Power System	Ezio Ciancetta, Giuseppe Cuzzocrea, Jean-Jacques Digoin, Federico Chiusano

DC / DC Converters – 1 (Thursday 6 October p.m.)

Paper Title	Authors
Multi-Output Power Converter, Operated From A Regulated Input Bus, For The Sireus Rate Sensor	Marcos Compadre Torrecilla, Alan H Weinberg, Patrick Hutton, Craig Clark
A New European High Fidelity Solar Array Simulator For Near Earth And Deep Space Applications	H. P. Thorvardarson, F. Gøttsche, F. Tonicello,
Very High Frequency Power Switching: A Road Map To Envelope Tracking	Christophe Delepaut, Natanael Ayllon
Watkins-Johnson Topology Integrated In A Full-Bridge Converter	Giulio Simonelli, Oliver El-Korashy, Hadrien Carbonnier
Two-Domain Control Of A Buck Converter	Mariel Triggianese, Hadrien Carbonnier, Ferdinando Tonicello, Maria Rodriguez Rogina
Benefits And Drawbacks Of A High Frequency GaN ZvZcps Converter	J. M. Blanes, A. Garrigós, R. Gutierrez, J. A. Carrasco, D. Marroquí, E. Maset, J.B Ejea, E. Sanchis-Kilders, A. Ferreres, J. L. Lizán
Dynamic Modelling Of The Series Resonant Converter Operating In Discontinuous Conduction Mode And Its Application In Space	A. Soto, J. Cortes, F. Pascual

DC / DC Converters – 2 (Friday 7 October p.m.)

Paper Title	Authors
MC ² : A Power Conditioning And Distribution Unit For Stratospheric Balloons	Bonnet François, Vivian Bernard, Stephanie Venel, Thomas Baldran
A Study Of A B3R Converter Based PCU, To Confirm The Flexibility And Performance Of The Converter Topology	Erik Mache, Michael Koch
Interleaved, Multi-Switch, Multi-Phase Boost Converter For Battery Discharge Regulators	Fernando Sobrino-Manzanares, Ausias Garrigos
Improvements To Fail-Proofing Of Onboard Autonomous Battery Charge Regulators	Sreenivasa Prasad K. , S.Kalpana , P.Anandhi
Output Impedance Improvement Using Coupled Inductors	E. Sanchis Kilders, A. Ferreres, J.L. Gasent Blesa, D. Osorno, D. Gilabert, E. Maset, J. Jordan, V. Esteve, J.B. Ejea
Efficient Point Of Load Conversion From The Satellite Main Bus	Patrick Franks, Tom Gati, Jean Louis DeBauche
A New, Single Diode, Sequential Switching Shunt Regulator	G. Gianninoto, E. Scorzafava, D. Carlani

High Voltage (Friday 7 October a.m.)

Paper Title	Authors
PPU Mk3 For 5 Kw Hall Effect Thrusters	Eric Bourguignon, Stéphane Fraselle
Hall Effect Thruster Direct Drive PPU's, Experimental Investigation Of The Cathode Potential Grounding Problem	Luca Ghislanzoni, Luca Benetti, Tommaso Misuri, Giovanni Cesaretti, Lorenzo Fontani
Development Of A Low Cost PPU For FEEP Electric Propulsion Using Cots Components	Bernhard Seifert, Alexander Reissner, David Jelem, Thomas Hörbe
Power Processing Unit For Micro Satellite Electric Propulsion System	Spiridon Savvas, Dimitrios Malamas, Alexandros Manoudis, Pavlos Ramnalis, Luca Benetti, Silvia d'Argliano, Luca Onida, Davide Caniglia, Lorenzo Fontani, Tommaso Misuri
The High-Voltage System Of Calet Apparatus	Francesco Petroni, Lorenzo Fontani, Luca Onida, Pierpaolo Pergola, Guido Castellini, Andrea Viciani,
High Voltage Smart Power Module For Fault-Tolerant Launcher Applications	Debrouwere Richard, Guillaume Michel

Wide Bandgap Components (Wednesday 5 October p.m.)

Paper Title	Authors
High Power Self-Aligned, Trench-Implanted 4H-Sic JFETs	K. Vamvoukakis, A. Stavrinidis, D. Stefanakis, G. Konstantinidis, M. Kayambaki, K. Zekentes
GaN Transistor In Space Equipment: From Selection To Applications	P. Fayt, M. Fossion, P. Maynadier & M. Notarianni
Design And Fabrication Of Silicon-On-Silicon-Carbide Substrates And Power Devices For Space Applications	P.M. Gammon, C.W. Chan, F. Gity, T. Trajkovic, V. Kilchytska, L. Fan, V. Pathirana, G. Camuso, K. Ben Ali, D. Flandre, P.A. Mawby, J.W. Gardner
Silicon Carbide And Magnetoresistive Technologies For Solid State Power Controllers	A. Garrigós, J. M. Blanes, R. Gutiérrez, J. Borrell, E. Maset, D. Ramirez, S. Cardoso
Prototyping And Characterization Of 1.2Kv Sic Schottky Diodes For TWTA Application: The Challenge To Meet The User Specification	E. Maset, E.Sanchis-Kilders, S. Massetti, J. Montserrat, P. Godignon, J.Moreno, E. Cordero, J. Bevan
Low Side GaN FET Driver For Space Applications	O.E. Mansilla, J. Broline, H. Satterfield, L.G. Pearce, E.J.Thomson

PMD: EEE Components (Tuesday 4 October p.m.)

Paper Title	Authors
Failure Rate Measurement On Silicon Diodes Reverse Polarized At High Temperature	D. Osorno, E. Sanchis-Kilder, E. Maset, D. Gilabert, A. Ferreres, J. Jordán, V. Esteve, J.L. Gasent-Blesa
Miniaturised Integrated Circuit Core Element For Point Of Load Conversion	S.Pappalardo - A.Alessandro - C.Santagati - C.Ardizzone - I.Mirabella - O.Principato - F.Tonicello
Planar Magnetics For Optimised Manufacturing, Performance And Limitations	Erich Strixner, DR.Frank Herty, Vittorio Pascucci

POSTER SESSION (Monday 3rd October p.m.)

Topic 1: Power Generation

Paper Title	Authors
Si-Doped InAs/GaAs Quantum Dot Solar Cell With AlAs Cap Layers	Dongyoung Kim, Mingchu Tang, Jiang Wu, Sabina Hatch, Yurii Maidaniuk, Vitaliy Dorogan, Yuriy I. Mazur, Gregory J. Salamo, Huiyun Liu
Dedicated Tool For Irradiation And Electrical Measurement Of Large Surface Samples On The Beamline Of A 2.5 MeV Pelletron Electron Accelerator : Application To Solar Cells	J��r��mie Lef��vre, Patrice Le Houedec, J��r��me Losco, Olivier Cavani, Bruno Boizot
Suggested Test Sequence Amendments Of The Current ECSS E-ST-20-08C Standard For Bare Solar Cells Qualification	J��ngst, G. Blanco, G. Gr��s, A.
Cheops Solar Cell Assemblies Life Test	Emilio Fern��ndez Lisbona, Gianfelice D'Accolti, Joel Asquier , Robert Holloway ,Bob Witteveen , Pietro Zanella , Luigi Ferrante
Enhancement Of Solar Cell Efficiency For Space Applications Using Two-Dimensional Photonic Crystals	P.A. Postigo, E. Baquedano, I. Prieto
Commercial Photodiode Suitability For Solar Simulator Light Monitoring	C. Barber, P. L��pez, G. Mart��nez
Development Of A New Time Resolved Irradiance Uniformity Mapper At Spasolab	C. Barber, A. Mart��nez de Olcoz, J.M. Fern��ndez, P. L��pez, G. Mart��nez

Topic 2: Energy Storage

Paper Title	Authors
Advanced Carbon Fluorides For Primary Lithium Batteries	K. Guérin , M. Dubois , A. HAMWI
Use Of Fuel Cells And Electrolyzers In Space Applications: From Energy Storage To Propulsion/Deorbitation	Javier Brey, Delia Muñoz, Verónica Mesa, Tamara Guerrero
Soft Solutions For Full Geo Electric Propulsion	D. Prevot , Y. Borthomieu , F. Malet , A. Carre , C. Cenac-Morthe
Qualification And Life Testing Of Li-Ion Ves16 Batteries	Stéphane Remy, Serge Lawson, Stéphane Lefevre, Edouard Mosset, Maria Nestoridi
Towards Supercapacitors In Space Applications	Brandon Buergler, Bertrand Faure, David Latif, Lukas Diblik, Petr Vasina , Valery Gineste, Marek Simcak
Toward State Estimation Of Satellite-Borne Lithium-Ion Battery Based On Low Frequency Impedance Data	Kohei Tanaka, Omar S. Mendoza-Hernandez, Sone Yoshitsugu, Seisuke Fukuda, Masayuki Itagaki
Review Of Commercial Cells For Space Applications	Rachel Buckle, Sam Roberts
High Performances Of Oxyfluoride Electrode Used In Lithium Ion Battery	K. GUERIN , N. LOUVAIN , M. EL-GHOZZI , C. CENAC-MORTHE
Proton Exchange Membrane Fuel Cell With Enhanced Durability Using Fluorinated Carbon As Electrocatalyst	Yasser Ahmad, Katia Guérin, Laetitia Dubau, Marian Chatenet, Sandrine Berthon-Fabry

Topic 3: Power Management And Distribution

Paper Title	Authors
The Global Precipitation Measurement (GPM) Spacecraft Power System Design And Orbital Performance	George Dakermanji, Michael Burns, Leonine Lee, John Lyons , David Kim, Thomas Spitzer, Bradford Kercheval
Digital Control For Power Management Systems	Bekemans Marc , Acconci Terence, Van Humbeeck Thierry, Van Esbeen Alain
The As400 Power Control And Distribution Unit - A Modular And Flexible Unit With B2R Solar Array Regulation For High Power Leo Missions	Daniel RUF, Erwin HUG, Axel VOGT, Ignacio BARBERO
On-Orbit Operations Of Power System For Japan's Venus Explorer Akatsuki	Hiroyuki Toyota, Nobuaki Ishii, Masato Nakamura, Hiroki Ooto, Kazuya Koide, Tomohiko Sakamoto, Hidetoshi Abe, Hideki Yoshino, Hiroyuki Takamura, Takayuki Ose, Yukishige Nozaki
The Leo PcdU Evo - A Modular And Flexible Concept For Low TO	E.Lapeña, J.L.Herranz, F.Gómez-Carpintero, M.Rodriguez
Power Processing Units Activities In Airbus Ds Space Equipments	Fernando PINTÓ , Javier PALENCIA , Nicoletta WAGNER, Guillaume GLORIEUX
Electrical Power Subsystem For The Euclid Spacecraft	Ezio Ciancetta, Marco Cimino, Giuseppe Cuzzocrea , Elena Maiorano , Ignacio Martinez , Luc Sanchez
Loss Modelling And Experimental Verification Of A 98.8% Efficiency Bidirectional Isolated Dc-Dc Converter	Rakesh Ramachandran, Morten Nymand
Modular And Decentralized Pcu	F. Bonnet , L. Rivière , C.Elisabelar, S. Brun, H. Gras, J. Domingo-Salvany
Determination Of Boundary Conditions For The Optimal Use Of Battery Alone Power System In Short Life Mission Spacecrafts	Sreenivasa Prasad K., S. Ananda
Introducing The Radiation-Hardened Voltage Regulators Rhfl4913 And RHFL6000	G. Bonna, C. Ribellino, S. Pappalardo
Microsatellite Power Control And Distribution Unit For The Innosat Platform	Moysis Tsamsakizoglou, Henrik Löfgren, Marcus Gunnarsson

INDUSTRY SESSIONS

Power sources (Tuesday 4 October a.m.)

Part 1 (09:00 – 10:30)	Part 2 (11:00 – 12:30)
Aerospatiale Batteries	Umicore Electro-optic materials
SAFT	AZUR SPACE Solar Power GmbH
Energys - ABSL	CESI SpA

Components, assembly and design tools (Tuesday 4 October p.m.)

Part 1 (13:30 – 15:00)	Part 2 (15:30 – 17:00)
SP Control Technologies	PRISMA electronics
Exxelia Group	SPACE IC GmbH
Microsemi	3D PLUS

Equipment and EGSE (Wednesday 5 October a.m.)

Part 1 (09:00 – 10:30)	Part 2 (11:00 – 12:30)
Foundation for Research and Technology - Hellas (FORTH)	SITAEL Hellas S. Ltd.
SENER	Airbus Defence and Space
Terma A/S	Clemessy Switzerland AG