



# PCNS Passive Components Networking Days Sep 12th - 15th 2017

## Final Programme

Brno, Czech Republic

jointly organised by:



main sponsors:



Tuesday Sep 12th pre-event			
12:00 to 13:00	Registration Desk Opening		
13:00 to 17:00	<b>CLR Seminars</b>  <b>Capacitors</b> <b>Capacitor Technology Overview</b> Ing.Tomáš Zedníček Ph.D. EPCI	<b>Resistors</b> <b>Resistor Technology Overview</b> Dipl.-Ing. Reiner W. Kühl Independent Specialist	<b>Inductors</b> <b>Inductors for SMPS with high efficiency and best EMI</b> Lorandt Fölkel M.Eng. Würth Elektronik
17:00 to 19:00	<b>CEITEC Tour</b> 17:00 move to CEITEC Central European Institute of Technology CEITEC Tour		

Wednesday Sep 13th		
8:00 to 9:00	Registration Desk Opening	
9:00 to 9:15	<b>Opening Ceremony</b> <b>Welcome Speech</b> Tomáš Zedníček, European Passive Components Institute EPCI	
9:15 to 9:45	<b>Keynote Speech</b> chair: T.Zedníček	<b>Plenary I.</b> Independant Laboratory Feedback on All Industry Passive Components Failure Analysis Eric Zaia, Serma Technology
9:45 to 10:15		<b>Plenary II.</b> Power-over-Coax Filter Design Challenges for Automotive Vision Applications Luděk Šubrt, Valeo
10:15 to 10:45	Break	
10:45 to 13:00	Networking chair: T.Zedníček	<b>Speakers Introduction</b> 5 min flash introduction of speakers and invitation to their speech
13:00 to 14:00	Lunch Break	
14:00 to 15:00	Networking chair: T.Zedníček	<b>University and Industry Introduction</b> 5 min flash presentations of universities and companies
15:00 to 15:30	Break	
15:30 to 15:55	<b>Speaker Session I.</b> <b>Space Components</b> chair: A.Teverovsky	1.1. Approach for passive parts procurement for space in New Space scenario David Nunez Teruel, Alter Technology <span style="float: right;">Invited Paper</span>
15:55 to 16:20		1.2. Ta SMD capacitors with Polymer Counter Electrode for Space Applications Ana Tomás, Kemet
16:20 to 16:45		1.3. Passive component embedding in printed circuit boards for space applications Maarten Cauwe, IMEC
16:45 to 17:10		1.4. High reliable fuses versus COTS fuses Bruno Zemp, Schurter AG
17:30 to 19:30	<b>Welcome Drink</b> Networking and Welcome Drink at the Conference Venue Art of Sabrage	

Thursday Sep 14th		
8:00 to 9:00	Registration Desk Opening	
9:00 to 9:30	Session II.	2.1. Lessons learnt at ESA from failure with commercial product/proces in space applications Denis Lacombe and Léo Farhat, ESA
9:30 to 10:00	<b>Hot Topic Panel Discussion</b>	2.2. Parametric Failures in COTS Capacitors Alexander Teverovsky, ASRC Federal Space and Defense (NASA)
10:30 to 11:00	<b>Commercial for Space Components</b> chair: T.Zedníček	2.3. Commercial vs. Hi-Rel Tantalum Capacitors in Space Applications Yuri Freeman and Philip Lessner, Kemet
11:00 to 11:30		<b>Panel Discussion</b> Q&A from audience
11:30 to 11:45	Break	
11:45 to 12:05	Speaker Session III.	3.1. Assessment of Supercapacitor's Quality by Means of Low Frequency Noise Arkadiusz Szewczyk, Gdańsk University of Technology <span style="float: right;">Invited Paper</span>
12:05 to 12:30	<b>Super-capacitors</b> chair: P.Sedlák	3.2. Investigation of Supercapacitor's Impedance Based on Spectroscopic Measurements Ciprian Ionescu, University Politehnica of Bucharest CETTI
12:30 to 12:55		3.3. Supercapacitor Degradation and Reliability Tomáš Kuparowitz, Central European Institute of Technology CEITEC Brno
12:55 to 14:00	Lunch Break	
14:00 to 14:25	Speaker Session IV. Part 1	4.1. Aerosol Jet® Printing Opportunity Jiří Navrátil, FEE University of West Bohemia RICE <span style="float: right;">Invited Paper</span>
14:25 to 14:50	<b>New Development</b> chair: L.Fölkel	4.2. Next Generation of Polymer Capacitors: Boosting Performance of Electrolytic Capacitors by Conductive Polymer Dispersions Udo Merker, Heraeus Deutschland GmbH & Co KG
14:50 to 15:15		4.3. Printed and Embroidered Electronic Passive Components Tomáš Blecha, FEE University of West Bohemia
15:15 to 15:45	Break	
15:45 to 16:10	Speaker Session IV. Part 2	4.4. Embroidered textile antennas based on hybrid sewing thread Martin Pavec, FEE University of West Bohemia RICE
16:10 to 16:35	<b>New Development</b>	4.5. Carbon nanotubes ammonia sensor printed by Aerosol Jet System Jiří Štulík and Aleš Hamáček, FEE University of West Bohemia
17:00 to 24:00	<b>Gala Dinner</b>	Networking and Gala Dinner at Templar Knights Wine Cellar Cejkovice coach transport leaves 17:00 from the venue and back at the scheduled times



Friday Sep 15th		
8:00 to 9:00	Registration Desk Opening	
9:00 to 9:25	Speaker Session V. <b>Applications</b> chair: J.Petržilek	5.1. Capacitors and Resistors with Extended Operating Temperature Range for GaN Applications– Development and Space Evaluation David Nunez Teruel and Demetrio López Molina, Alter Technology <span style="float: right;">Invited Paper</span>
9:25 to 9:50		5.2. Energy harvesting is not fiction any more Lorandt Fölkel, Würth Elektronik eiSos GmbH & Co.KG
9:50 to 10:15		5.3. Tantalum Polymer Capacitors: Hermetic Packaging Solutions for Space Applications Slavomír Pala, AVX Corporation
10:15 to 10:45		5.4. Project for Energy Storage on a Chip for MEMS Jaromír Hubálek, Central European Institute of Technology CEITEC Brno
10:45 to 11:00	Break, Sandwiches to Go	
11:00 to 11:25	Speaker Session VI.	6.1. Moisture-Related Reverse Bias Degradation in Chip Tantalum Capacitors and Kinetics of Moisture Sorption Alexander Teverovsky, ASRC Federal Space and Defense (NASA)
11:25 to 11:50	<b>Quality &amp; Processes</b> chair: A. Szewczyk	6.2. Temperature Dependence of Leakage Current Degradation of Tantalum Capacitors at High Electric Field Vlasta Sedláková, Brno University of Technology, CEITECet
11:50 to 12:15		6.3. Thick Film Power Resistor with Thick Printed Copper Terminals Jiří Hlína, FEE University of West Bohemia RICE
12:15 to 12:30	<b>Closing Ceremony</b>	<b>Closing Speech</b> Tomáš Zedníček, EPCI