

PRELIMINARY PROGRAMME

2nd PCNS Passive Components Networking Symposium

September 10-13th 2019, Bucharest, Romania

media partner:



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10th September 2019 Pre-Event Day

13:00-17:00h **Passive Components Mounting Guidelines Workshop**

17:00-19:00h **Politehnica Bucharest University Tour**

11th September 2019 Main Conference & Networking Day

9:00-10:45h **Welcome and Keynotes**

- **Passive Components - Keys to enabling Advanced Future System Designs;**
Ron Demcko, AVX fellow
- **Design Challenges of Capacitors – What about downsizing, robustness and energy density for future applications?;** Stephan Menzel, Würth Elektronik eiSos
- **Passive Components – Teaching and Learning;**
Paul Svasta, Politehnica University of Bucharest

11:00-12:00h **Speakers and Organisations Flash Presentations**

- 5min flash presentations to introduce speakers, universities and companies and its hot subjects

13:00-17:00h **Advanced Passive Components Workshop**



- Murata: 3-terminal ceramic capacitors, Common mode choke coils, Ferrite beads
- AVX: Supercapacitors, ESD protection and multilayer varistors
- Würth Elektronik: How to choose the best Inductor for a DC/DC converter and consider EMI
- Kemet: Tantalum capacitor advances, Commercialisation of space and ceramic capacitors
- KOA Europe: Resistor technology overview

17:30 **Welcome Drink**

12th September 2019 Panel Discussion and Sessions Day

9:00-11:00h **Hot Topic Panel Discussion MLCC Class II DC BIAS & Ageing Capacitance Loss**

- Manufacturers and end users discussion on definition/reference conditions on capacitance loss with DC BIAS on MLCC class II capacitors
- Panelists: Valeo, AVX, Kemet, Murata, Continental (TBC)

11:20-12:20 **Session 1 NEW DEVELOPMENT**

- 1.1. **A Disruptive Nano-laminate Polymer Capacitor Technology for Electric Drive Applications;** Angelo Yializis; POLyCharge America Inc; United States
- 1.2. **Integrated and discrete capacitors based on carbon nanostructures with capacitance densities in excess of 200nF/mm²;** Vincent Desmaris; Smoltek AB; Sweden
- 1.3. **Advances in Film Resistor Technology;** Stephen Oxley; TT Electronics; United Kingdom

13:20-14:40 Session 2 TECHNOLOGY & ROADMAPS

- 2.1. *Energy Harvesting is not Fiction anymore*; Lorandt Fölkel; Würth Elektronik eiSos; Germany
- 2.2. *Analysis of Multi-Layer Ceramic Capacitors used in Power Distribution Networks*; Marcel Manof; Continental; Romania
- 2.3. *Guidelines How to Downsize MLCCs Efficiently*; Yuki Nagoshi; Murata; Germany
- 2.4. *Capacitor Trends and Challenges*; Martin Barta; TTI; Germany

15:00-16:30 Session 3 QUALITY & RELIABILITY

- 3.1. *COTS procurement for space mission*; Denis Lacombe; ESA ESTEC; Netherlands
- 3.2. *Most Reliable, Most Efficient and Price Effective Solid Tantalum Capacitors*; Yuri Freeman; Kemet; United States
- 3.3. *Real Environment Aluminium Electrolytic Capacitor LifeTime Evaluation and Modelling*; Luca Primavesi; IteCond and Univeristy of Milano; Italy
- 3.4. *Supercapacitor Degradation and Life-time*; Vlasta Sedláková; Brno University of Technology; Czech Republic

16:30 Gala Dinner

13th September 2019 Sessions Day and Closing

9:00-11:00 Session 4. MATERIALS & PROCESSES

- 4.1. *High Bs ferrite material development for high power applications*; JC Sun; Power Loss Tester GmbH; Germany
- 4.2. *High efficient new Hybrid magnetic EMI filter design for Low Voltage DC distribution*; Thomas Ebel; Centre for Industrial Electronics, University of Southern Denmark; Denmark
- 4.3. *Conductive hybrid threads and their applications*; Tomas Blecha; University of West Bohemia; Czech Republic
- 4.4. *Tin Whisker or not Whisker*; Jean Edmond Le Calvé; Valeo; France
- 4.5. *Stable and reliable tantalum supply chain*; Roland Chavasse; T.I.C.; Belgium

11:20-12:20 Session 5. MEASUREMENT & TEST

- 5.1. *Degradation of Polymer Tantalum Capacitors during High Temperature Storage*; Alexander Teverovsky; NASA/GSFC; United States
- 5.2. *Investigation and Experimental Comparison of Magnetic Core Loss for High-Saturation Ferrite Material*; Chang Wang; TU of Denmark; Denmark
- 5.3. *Evaluation of Active Balancing Circuits for Supercapacitors*; Politehnica University of Bucharest, Romania

12:20-12:40 Closing Ceremony

PCNS Fee Rates:

Regular Conference Admission Fee	Registration Rates	
	Standard Rate	Early Rate
pre-event Workshop Only	140 EUR	90 EUR
Main Symposium	320 EUR	270 EUR
Symposium + pre-event Workshop	390 EUR	340 EUR
Speaker	220 EUR	220 EUR
Speaker + pre-event Workshop	320 EUR	270 EUR

Notes: early registration up to 20th Jul 19

Academic Conference Admission Fee	Registration Rates	
	Standard Rate	Early Rate
Main Symposium Academic	270 EUR	220 EUR
Symposium + pre-event Workshop Academic	340 EUR	290 EUR

Notes: early registration up to 20th Jul 19

Exhibition Stand	300 EUR
Exhibition Stand Academic	free
Administration booth person*	55 EUR
Spouse*	55 EUR

Notes: * social events admission only

the exhibitor fee does not include conference admission fee

REGISTRATION OPEN with EXHIBITION BOOTH and FLASH PRESENTATION booking options at:

www.passive-components.eu/pcns