

FINAL PROGRAMME

2nd PCNS Passive Components Networking Symposium

September 10-13th 2019, Bucharest, Romania

Event location: Library of University Politehnica Bucharest, Splaiul Independenței, 313, Bucharest

media partner:



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Pre-Event Day 10th September 2019

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

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

Main Conference & Networking Day 11th September 2019

9:00-11:30h **Welcome and Keynotes**; Chairman: Tomas Zednicek; EPCI

- **Passive Components - Keys to enabling Advanced Future System Designs;**
Ron Demcko; Technical Sales Group Manager; AVX fellow
- **Design Challenges of Capacitors – What about downsizing, robustness and energy density for future applications?;**
Stephan Menzel; Product Development Manager Capacitors; Würth Elektronik eiSos
- **Shortage of Products - Market Mechanisms and How to avoid Fake-Products;**
Rüdiger Scheel; VP Automotive, Murata Electronics Europe
- **Passive Components – Teaching and Learning;**
Paul Svasta, Emeritus Professor; Politehnica University of Bucharest

11:30-13:00h **Speakers and Organisations Flash Presentations**

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

14:00-17:50h **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

18:00 **Welcome Drink**

Panel Discussion & Sessions Day 12th September 2019

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 (Tentative list): Valeo, AVX, Kemet, Murata, Continental

tutorial paper and facilitation by: Tomas Zednicek; EPCI

- 11:20-12:20 **Session 1 NEW DEVELOPMENT**; Chairman: Ron Demcko; AVX Corporation
- 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*; Sascha Krause; Smoltek AB; Sweden
 - 1.3. *Advances in Film Resistor Technology*; Stephen Oxley; TT Electronics; United Kingdom
- 13:20-14:40 **Session 2 TECHNOLOGY & ROADMAPS**; Chairman: Vlad Bande; TU of Cluj
- 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 Manofu; 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**; Chairman: Alexander Teverovsky; NASA/GSFC
- 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; Ed Jones; Kemet; USA
 - 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** (bus coach to country restaurant)

Sessions Day & Closing 13th September 2019

- 9:00-11:00 **Session 4. MATERIALS & PROCESSES**; Chairman: Lorandt Fölkel, Würth Elektronik eiSos
- 4.1. *High Bs ferrite material development for high power applications*; JC Sun; Bs&T Frankfurt am Main GmbH
 - 4.2. *High efficient new Hybrid magnetic EMI filter design for Low Voltage DC distribution*; Thomas Ebel; Wai Keung Mo; 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**; Chairman: Luca Primavesi; IteCond
- 5.1. *Degradation of ESR in 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; JC Sun; TU of Denmark; Denmark
 - 5.3. *Evaluation of Active Balancing Circuits for Supercapacitors*; Ciprian Ionescu; Politehnica University of Bucharest
- 12:20-12:40 **Closing Ceremony**

PCNS Fee Rates:

Regular Conference Admission Fee	Registration Rates Standard Rate
pre-event Workshop Only	140 EUR
Main Symposium	320 EUR
Symposium + pre-event Workshop	390 EUR
Speaker	220 EUR
Speaker + pre-event Workshop	320 EUR
Exhibition Stand	300 EUR*
Administration booth person and spouse**	55 EUR

Academic Conference Admission Fee	Registration Rates Standard Rate
Main Symposium Academic	270 EUR
Symposium + pre-event Workshop Academic	340 EUR
Exhibition Stand Academic	free

Notes:

* the exhibitor fee does not include conference admission fee

** social events admission only