

INTERNATIONAL SOCIETY
ON PULSED POWER
APPLICATIONS e.V.



4th ISP PhD Workshop 2024

PROGRAM



5th and 6th December 2024



University of Pau and Pays de
l'Adour (UPPA), Pau, France



Thursday, Dec. 5th

08:30-08:45	Registration in the lobby of IPREM Technopôle Helioparc, 2 Av. du Président Pierre Angot, Pau.
08:45-09:00	Welcome Session
09:00-10:15	Oral session 1 “Pulsed Power Generator” Chairperson: Dr Roman LEDUC
09:00-09:15	A Modified Trigger Generator for Impact-Ionization Switching Mode: Experimental Results versus Numerical Simulations <i>Ejlal SHAHRIARI, UPPA, France</i>
09:15-09:30	Development of a Pulse Generator for the muEDM Experiment <i>Johanness ALT, KIT, Germany</i>
09:30-09:45	Development and Test of High Pulsed Power Sources for Medical and Defense Applications <i>Laurent ARIZTIA, UPPA, France</i>
09:45-10:00	Impact Ionization Triggering of Small Size Thyristors in a Marx Topology <i>Alicia DEL BARRIO, KIT, Germany</i>
10:00-10:15	Study of Optimization of the Efficiency of Ore Comminution by Electric Discharge <i>Alexandre BRAGA, UPPA & IROX, France</i>
10:15-10:45	Coffee Break
10:45-12:00	Oral session 2 “Pulsed Power Applications 1” Chairperson: Dr Thomas MAYSONNAVE
10:45-11:00	Electro-Optic Validation of Flash Tubes for Laser Amplification Systems <i>Benedict LAND, University West England & AWE Plc, England</i>
11:00-11:15	Fast Streamer Discharges for High-Yield Ozone Generation Driven by (sub)Nanosecond Pulsed Power Sources <i>Chiel TON, Eindhoven University of Technology, Netherlands</i>
11:15-11:30	Influence of Azimuthal and Axial Static Magnetic Polarization Fields on RF Oscillation Generation in a GNLTL <i>Nicolas CHARREL, UPPA & CEA, France</i>
11:30-11:45	Pulsed Electrolysis for Hydrogen Production <i>Peter RUSHFORTH, Loughborough University, England</i>
11:45-12:00	Company Presentation: ITOPP <i>Pierre-Yves GUINET, France</i>
12:00-13:30	Lunch Break
13:30-14:45	Oral session 3 “Pulsed Power Components” Chairperson: Dr Veronika GAVRILENKO
13:30-13:45	High Energy Density BaTiO ₃ Capacitors Shaped by Spark Plasma Sintering <i>Abdellatif RASHED, UPPA, France</i>
13:45-14:00	Investigation of Supercapacitors as a High-Current Pulsed-Power Energy Source <i>Fabian ALBRECHT, ISL & HSU, France & Germany</i>
14:00-14:15	Multilevel Inverters <i>Babacar LEYE, UPPA & ENIT, France</i>
14:15-14:30	Optimizing Control Strategies for High Power Capacitor Charges with a SiC-based LC-resonant Topology <i>Felix HAAG, ISL, France</i>
14:30-14:45	Company Presentation: enaDyne <i>Christian KOCH, Germany</i>

Thursday, Dec. 5th

15:15-18:00 *Visit to Cave de Jurançon*

Technopôle Hélioparc, 2 Av. du Président Pierre Angot, Pau

18:30-20:00 *Euskal pilota*

Le Pilota, 458 Bd. du Cami Salié, Pau

20:00 *Dinner*

Le Pilota, 458 Bd. du Cami Salié, Pau

Friday, Dec. 6th

09:00-10:30	Oral session 4 "Pulsed Power Applications 2" Chairperson: Dr Anton GUSEV
09:00-09:15	LIF-Dip Probe for the Measurement of Plasma Parameters in Pulsed Electron Accelerator <i>Luis ORELLANA, Karlsruhe Institute of Technology, Germany</i>
09:15-09:30	Modelling of GaN HEMTs for Pulsed-Power Circuits <i>Ivan VOROTIAHIN, Karlsruhe Institute of Technology, Germany</i>
09:30-09:45	Reducing Parasitic Oscillations of Capacitive Dividers Using Coaxial Symmetry in the Low-Voltage Arm <i>Thor WENS, Université de Liège, Belgium</i>
09:45-10:00	Study of a Compact High-Power Microwave Source in Ka Band <i>Quentin LESTRADE, CEA, France</i>
10:00-10:15	EMP Generation for Drone Neutralization <i>Kurt SOMERS, Vrij Universiteit Brussel, Belgium</i>
10:15-10:30	Company Presentation: HVP (High Voltage Products) <i>Ahmet F. KILINC, Germany</i>
10:30-11:00	Coffee Break
11:00-12:00	SIAME Laboratory tour

Thank you !

ISP Workshop Committee

PhD@Pulsed-Power.org

www.Pulsed-Power.org