Program Schedule SKI Hotel, September 8 - 12, 2025

Monday, September 8

9.00 - 15.00		Registration (at Ski Hotel)	
12.30		Lunch at Ski Hotel	
13.30 -15.00		Informal Discussions	
15.00	Symposium Opening		
Chairman V. Aubrecht (CZ)			
Invited Lecture			
15.15 – 16.00	P. Robin-Jouan (FR)	High Voltage Interrupting Simulation: Analysis of Expectations and Resources for industrial applications	
Topical Lectures			
16.00 – 16.15	S. Gortschakow (DE)	Modelling of switching arcs at short electrode distances	
16.15 – 16.30	F. Mingers (DE)	Global sensitivity analysis of polymer ablation modeling for magnetohydrodynamic fault arc models	
16.30 – 16.55	Coffee Break		
Topical Lectures			
16.55 – 17.10	C. Simonnet (FR)	Influence of radiation energy losses in a numerical simulation of subsonic vacuum arc in the presence of external axial magnetic field	
17.10 – 17.25	S. V. Rohani (UK)	Efficient Arc Simulation in High-Voltage Circuit Breakers Using the Equal Emission Banding Method	
17.25 – 17.40	R. Fuchs (CH)	Numerical simulation of Circuit Breaker using Overset and Morphing Methods	
19.00 – 22.00		Welcome Reception	

Program Schedule SKI Hotel, September 8 - 12, 2025

Tuesday, September 9

Chairman P. Robin-Jouan (FR)			
Invited Lectures			
9.00 – 9.45	Ch. Franck (CH)	Thermal current interruption in SF6-free gas mixtures	
9.45 – 10.30	M. Anheuser (DE)	Some trends on the field of low voltage switching devices	
10.30 – 10.55	Coffee Break		
Topical Lectures			
10.55 – 11.10	M. Seeger (CH)	Electric breakdown in CO_2/O_2 gas mixture in weakly and strongly non-uniform electric field distributions at temperatures 300- 4000 K	
11.10 – 11.25	N. S. Stoa-Aanensen (NO)	Ageing of C_4F_7N and CO_2 -based insulating gas mixtures by free-burning arcs	
11.25 – 11.40	V. Issartel (FR) S. Gortschakow (DE)	Dielectric withstand analysis for high voltage circuit-breakers using G3 and CO_2 - O_2 gas mixtures	
12.00	Lunch		
13.30 – 15.00		Informal Discussions	
		Chairman D. Uhrlandt (DE)	
Topical Lectures			
15.00 – 15.15	D. Kumari (CH)	Sensitivity of synthetic test circuit parameters on thermal interruption tests in CO ₂ gas mixtures	
15.15 – 15.30	S. V. Rohani (UK)	Effect of Pressure on Nozzle Performance for Arc Interruption	
15.30 – 15.45	T. Gfrörer (CH)	Free burning arc black-box modelling in CO ₂ /O ₂	
15.45 – 16.00	K. Niayesh (NO)	Estimation of dielectric recovery of fast opening commutating switches after short time arcs	
16.00 – 16.25	Coffee Break		
Topical Lectures			
16.25 – 16.40	S. Gortschakow (DE)	Study of correlation between voltage fluctuations and surface temperature during anode mode transitions in a model vacuum switch	
16.40 – 16.55	M. Baeva (DE)	Modeling studies of arcs of short length between copper electrodes	
16.55 – 17.10	A. Gatri (FR)	Numerical modeling of electric arc in a low voltage breaking chambre	
18.00 – 19.00	Dinner		
19.00 – 21.00	Poster Session – Topic II		
20.00 - 21.00	Scientific Committee Meeting		

Program Schedule SKI Hotel, September 8 - 12, 2025

Tuesday, September 9 (cont.)

Poster Session – Topic II		
P. Pietrzak (CH)	Arc conductance decay as a performance indicator for thermal interruption in CO2-based mixtures	
C. Pietri (FR)	Electric arc during contact opening at 540 VDC	
A. Najam (DE)	Characterization of the switching arc in hydrogen under different pressure conditions	
J. Ballentin (DE)	Experimental studies of microarcs between copper electrodes in atmospheric pressure air	
A. Gatri (FR)	Integration of Current Limiting and Circuit Coupling in MHD Models for Low-Voltage Arc Simulation	
P. Freton (FR)	Moving contact in a geometry – Applied to a simplified LVCB geometry	
M. C. Suarez (DE)	Influence of closing speed, filling pressure and mixing ratio on pre-strike arc duration in a MV LBS using N2/CO2 mixtures	
P. Wienkamp (DE)	Characterizing the Diffuse Vacuum Arc Voltage for MVDC Circuit Breaker Applications: Experiment, Data, and Empirical Model	
S. Jugelt (DE)	Medium voltage direct-current interruption by a high velocity flow of dielectric liquids	
M. Ha (KR)	Hot Gas Behavior in Circuit Breakers with SF ₆ and a CO₂-Based Gas Using Microgap Measurement and Simulation	

Program Schedule SKI Hotel, September 8 - 12, 2025

Wednesday, September 10

		Chairman M. Anheuser (DE)
Invited Lectures		
9:00 – 9.45	Y. Tanaka (JP)	A Review of Numerical Appoaches on Decaying Arc Plasmas in Polyatomic C-F-O Molecular Gas Flow with Chemical Non- equilibrium Considerations
9.45 – 10.30	J. Čech (CZ)	Glow Discharge in Hydrodynamic Cavitation - CaviPlasma: Diagnostics and High-Volume Applications
10.30 – 10.50	Coffee Break	
Topical Lectures		
10.50 – 11.05	S. Gortschakow (DE)	Use of optical methods for temperature evaluation of switching CuCr contacts in vacuum
11.05 – 11.20	J. Engelbrecht (CH)	Optical emission spectroscopy evaluation of exhaust gas temperatures after high current interruption in CO ₂ /O ₂
11.20 – 11.35	D. Gonzalez (DE)	How reliable are line intensities for temperature calculation using the Bolzmann plot method
11.45	Lunch	
13.00 – 18.00	Social program – Excursion in Lysice chateau and chateau's terraced garden	
18.30 – 19.30	Dinner	
19.30 – 21.30	Poster Session – Topics I + III+ IV+V	
M. Baeva (DE)	Modelling of microdis measurements	charges in metal vapour of cadmium in comparison with electrical
M. Buffoni (CH)	Numerical Characteriz	ration of Arc-induced Turbulence in the vicinity of Current Zero
Y. Qiao (UK)	Performance evaluation of modified turbulent models in simulating arc quenching process in circuit breakers	
V. Mazánková (CZ)	Study of ozone destru	ction reaction at higher temperatures
	Optical investigation of	
R. Methling (DE)		of microdischarges in zinc metal vapour
R. Methling (DE) O. Nedybaliuk (UA)	Peculiarities of spectradmixtures	of microdischarges in zinc metal vapour oscopy of thermal plasma with copper and molybdenum vapour
O. Nedybaliuk	admixtures	
O. Nedybaliuk (UA)	admixtures OES diagnostics of pla	oscopy of thermal plasma with copper and molybdenum vapour
O. Nedybaliuk (UA) P. Slavíček (CZ)	admixtures OES diagnostics of pla Bidirectional coupling	oscopy of thermal plasma with copper and molybdenum vapour sma nozzle with larger diameter of jet plume and particles in a plasma spraying process sment of silver and gold nanoparticles prepared from liquid
O. Nedybaliuk (UA) P. Slavíček (CZ) T. Zhu (DE)	admixtures OES diagnostics of pla Bidirectional coupling Ecotoxicological asses precursors by non-the	oscopy of thermal plasma with copper and molybdenum vapour sma nozzle with larger diameter of jet plume and particles in a plasma spraying process sment of silver and gold nanoparticles prepared from liquid
O. Nedybaliuk (UA) P. Slavíček (CZ) T. Zhu (DE) Z. Kozáková (CZ)	admixtures OES diagnostics of pla Bidirectional coupling Ecotoxicological asses precursors by non-the Spectroscopy of plasn	oscopy of thermal plasma with copper and molybdenum vapour sma nozzle with larger diameter of jet plume and particles in a plasma spraying process sment of silver and gold nanoparticles prepared from liquid

Program Schedule SKI Hotel, September 8 - 12, 2025

Thursday, September 11

Chairman J. Yan (UK)		
Invited Lectures		
9:00 – 9.45	J. Pawlat (PL)	Non-thermal plasmas for biological materials
9.45 -10.30	L. Zajickova (CZ)	Versatility of material processing with plasma jets: from gliding arc to cold atmospheric plasma
10.30 – 10.55	Coffee Break	
Topical lectures		
10.55 – 11.10	J. Jánský (CZ)	Conditions for Streamer Ignition in the System of Two Approaching Hydrometeors
11.10 – 11.25	D. Uhrlandt (DE)	Towards plasma-enhanced gasification: investigating free-burning carbon arcs in molecular gas mixtures
11.25 – 11.40	S. Schmausser (DE)	Experimental Validation of MHD Arc Simulation for Encapsulated Horn Spark Gaps
11.40 – 11.55	A. Monnoyer (FR)	Modelling the heating and erosion of a non-refractory cathode in a plasma torch
12.00	Lunch	
13.30 – 15.00	Informal Discussions	
		Chairman K. Niayesh (NO)
Topical Lectures		
15.00 – 15.15	S. Kimpeler (DE)	Magnetohydrodynamic modeling of direct current arc interruption in a low-voltage switch
15.15 – 15.30	B. Barbu (DE)	Simulation of contactor for regional hybrid-electric aircraft
15.30 – 15.45	M. Iwata (JP)	Investigation of detecting DC series arcs with short gaps to simulate failure conditions in actual low-voltage DC facilities
15.45 – 16.00	S. M. Gerhard (NO)	Experimental Characterization of Rapidly Elongating and Fast Commutating Arcs in DC Circuit Breakers: Test Setup and Preliminary Results
16.00 – 16.25		Coffee Break
16.25 – 16.40	O. M. D. Razafindrasata (FR)	Study of the behavior of an electric arc during the passage of an 8/20 µs current wave and a follow current in a Spark Gap
16.40 – 16.55	P. Corfdir (CH)	Dielectric recovery of electric arcs confined between PTFE and PA66 walls
17.15		Symposium Closing
18.00 – 19.00		Dinner

Program Schedule SKI Hotel, September 8 - 12, 2025

Friday, September 12

9.00 – 10.00	Informal Discussions
Departure from the Hotel Ski	

Rem.: Board size for poster: 80 cm (width) x 150 cm (height), white colour