

**Timetable(Venue) of ISH2025**

August 24, Sunday		Oral	Oral	Oral	Poster & Exhibition	
Venue	Nagano1	Asama A	Asama B	Asama C	Chikuma	Others
14:00-18:00	Registration					
18:00-20:00	Welcome Reception					
August 25, Monday		Oral	Oral	Oral	Poster & Exhibition	
Venue	Nagano1	Asama A	Asama B	Asama C	Chikuma	Others
9:30-16:00	Registration					
10:00-10:15		ISH 2025 Opening Ceremony				
10:15-11:30		Hanz Prinz Award Lecture and Plenary Lectures				
11:30-12:00					Time to put up posters	
12:00-13:00	Lunch				Poster check time (free)	
13:00-14:20		Special Session (SF6 free) T04: Advanced materials and insulation systems 68, 69, 143, 206			Poster check time (free)	
14:20-15:20					Poster Session 1 & Coffee Break	
15:20-17:00		Special Session (SF6 free) T08: Industrial applications of high voltage 5, 400, 401				
August 26, Tuesday		Oral	Oral	Oral	Poster & Exhibition	
Venue	Nagano1	Asama A	Asama B	Asama C	Chikuma	Others
9:30-16:00	Registration					Technical Tour 1
9:30-10:50		Session A3 T04: Advanced insulation systems 1 40, 146, 205, 41	Session B3 T08: Industrial application of high voltage 56, 121, 202, 344	Session C3 T05: Condition Monitoring 1 30, 71, 72, 220		
10:50-11:10			Break		Time to put up posters	
11:10-12:30		Session A4 T04: Advanced insulation systems 2 57, 70, 86, 102	Session B4 T03: Partial discharge 1 7, 12, 225, 379	Session C4 T05: Condition Monitoring 2 65, 219, 221, 240	Poster check time (free)	
12:30-13:30	Lunch				Poster check time (free)	Technical Tour 2
13:30-14:50		Session A5 T04: Advanced insulation systems 3 406, 399, 149, 162	Session B5 T03: Partial discharge 2 115, 356, 230	Session C5 T05: Condition Monitoring 3 179, 352, 145, 266	Poster check time (free)	
14:50-15:50					Poster Session 2 & Coffee Break	
15:50-17:30		Session A6 T04: Advanced insulation systems 4 332, 434, 78, 4	Session B6 T05: Partial Discharge 3 108, 192, 212, 153, 433	Session C6 T05: Condition Monitoring 4 264, 414, 227, 396, 19		
August 27, Wednesday		Oral	Oral	Oral	Poster & Exhibition	
Venue	Nagano1	Asama A	Asama B	Asama C	Chikuma	Others
9:30-16:00	Registration					
9:30-10:50		Session A7 T04: Advanced insulation systems 5 387, 403, 234	Session B7 T05: Partial Discharge 4 51, 55, 157, 354	Session C7 T05: New Technologies for Hybrid Energy Systems 141, 126, 109, 410		
10:50-11:10			Break		Time to put up posters	
11:10-12:30		Session A8 T04: Advanced insulation systems 6 237, 248, 311, 259	Session B8 T03: High voltage testing techniques 331, 333, 391	Session C8 T05: Degradation of Insulation Materials 285, 348, 186, 367	Poster check time (free)	
12:30-13:30	Lunch				Poster check time (free)	
13:30-14:50		Session A9 T04: Advanced insulation systems 7 381, 398, 13, 350	Session B9 T03: Insulation characteristics 1 75, 92, 209, 131	Session C-9 T02: Transient voltages 1 11, 22, 27	Poster check time (free)	
14:50-15:50					Poster Session 3 & Coffee Break	
15:50-17:10		Session A10 T04: Advanced insulation systems 8 353, 442,133, 82	Session B10 T03: Insulation characteristics 2 170, 280, 183, 83	Session C10 T02: Transient voltages 2 140, 58, 299, 363		
August 28, Thursday		Oral	Oral	Oral	Poster & Exhibition	
Venue	Nagano1	Asama A	Asama B	Asama C	Chikuma	Others
9:30-16:00	Registration					
9:30-10:50		Session A11 T04: Advanced insulation systems 9 99, 155, 106	Session B11 T03: Electromagnetic Interference 181, 297, 404, 351	Session C11 T02: Lightning 1 229, 34, 91		
10:50-11:10			Break		Time to put up posters	
11:10-12:30		Session A12 T10: Space charges 1 111, 151, 182, 193	Session B12 T03: High voltage testing techniques 1 43, 176, 188, 425	Session C12 T02: Lightning 2 326, 330, 378, 275	Poster check time (free)	
12:30-13:30	Lunch				Poster check time (free)	
13:30-14:50		Session A13 T10: Space charges 2 200, 231, 281, 300	Session B13 T03: High voltage testing techniques 2 392, 380, 405, 262	Session C13 T02: Lightning 3 64, 46, 440	Poster check time (free)	
14:50-15:50					Poster Session 4 & Coffee Break	
15:50-17:10		Session A14 T10: Space charges 3 388, 407, 287, 395,	Session B14 T07: HVDC technologies 1 114, 163, 261, 283	Session C14 T02: Lightning 4 142, 437, 397, 435		
18:00-20:00	Banquet					
August 29, Friday		Oral	Oral	Oral	Poster & Exhibition	
Venue	Nagano1	Asama A	Asama B	Asama C	Chikuma	Others
9:30-12:00	Registration					
9:30-10:30		Session A15 T01: Electromagnetic field 1 25, 302	Session B15 T07: HVDC technologies 2 303, 393, 130	Session C15 T03: High voltage testing techniques 3 31, 32, 389		
10:30-10:50			Break			
10:50-11:50		Session A16 T01: Electromagnetic field 2 416, 438, 279	Session B16 T07: HVDC technologies 2 323, 239	Session C16 T06: Smart technologies 124, 364, 365		
12:00-13:00	Closing Session					

軽井沢プリンスホテル ウェスト  
Karuizawa Prince Hotel West



Oral Session Room A

August 25, Monday			
Asama A			
Special Session (SF6 free)			
T04: Advanced materials and insulation systems	Paper ID	1st Author	Title
A1-1	68	Mr. Takanori Yasuoka	Insulation Performance of CO2(70%)/O2(30%) Gas Mixture as SF6 Alternative for High-voltage GIS
A1-2	69	Dr. Yusuke Nakano	Experimental Investigation on Breakdown Characteristics in CO2/O2 Gas Mixture under Extreme High Temperatures above 3000 K
A1-3	143	Dr. Ryuta Someya	Review of The Organic Material in The Natural Origin Gas for GIS / GCB.
A1-4	206	Mr. Takuya Igarashi	High-Voltage Breakdown Properties of High-Temperature N2/O2 Mixed with Cu Vapor at Temperature of 3000 K -Influence of Excitation Collision Process-

Special Session (SF6 free)			
T08: Industrial applications of high voltage	Paper ID	1st Author	Title
A2-1	5	Dr. Kunal Soni	Dielectric Recovery after Small Current Switching in C4-FN/O2/CO2
A2-2	400	Mr. Junwei Deng	The Spatiotemporal Distribution Measurements of Electron and Neutral Particle Densities in The C4F7N-CO2 Gas Mixture
A2-3	401	Mr. Minchuan Cao	Active Learning-Driven Multi-Objective Optimization of SF6-free Circuit Breakers
A2-4			

August 26, Tuesday			
Asama A			
Session A3			
T04: Advanced insulation systems 1	Paper ID	1st Author	Title
A3-1	40	Prof. Yoshimichi Ohki	Effects of Installation in a Nuclear Power Plant on the Insulation Properties of Silicone Rubber Insulated Cables
A3-2	146	Prof. Robert Ross	Implementation Requirements for Superconducting Cables in various Grid Types
A3-3	205	Ms. Yirui Zhang	Study on the Grounding Wire Current-Division Factor of Multi-Circuit Cable Incoming and Outgoing Lines in 500 kV Urban Terminal Substations
A3-4	41	Mr. Michael Kempf	Electro-Thermal Aging of Epoxy Resin Based Insulating and Field Grading Materials under High Frequency High Voltage Stress

Session A4			
T04: Advanced insulation systems 2	Paper ID	1st Author	Title
A4-1	57	Mr. Koki Juni	Research Trends and Perspectives on Surface Charge Accumulation on DC-GIS/GIL Insulating Spacers: Experimental and Computational Approaches
A4-2	70	Ms. Jiahui Li	Introducing Side-Chain Structures With Strong Electron AffinityTowards Enhanced Electrical Insulating Performance for Dielectric Polymers
A4-3	86	Prof. Xuetong Zhao	High Performance Insulating Material with Excellent Degradability and Electrical Performance based on O-Vanillin based Epoxy Resin
A4-4	102	Mr. Zdenek Rychlik	Synthesis Optimisation of A Polyimine with A Reversible Covalent Network for Improved Dielectric Properties

Session A5			
T04: Advanced insulation systems 3	Paper ID	1st Author	Title
A5-1	406	Dr. Salakjit Blanchard	The Investigation of Electrical Properties of Rubber Nanocomposites for High Voltage Electrical Insulators
A5-2	399	Mr. Jie Li	Effect of Aromatic and Aliphatic Curing Agents on High-Temperature Electrical Performance of Epoxy Resin
A5-3	149	Mr. Kein Kimura	Electrical Insulating Properties of Cellulose Nano-Fiber (CNF) Board for Electrical Insulation Systems of Rotating Machines
A5-4	162	Mr. Daisuke Katase	X-Ray Spectroscopic Trap Depth Profiling (X-TDP): A Novel Method for Determining Charge Trap Depths in Polymer Nanocoposites

Session A6			
T04: Advanced insulation systems 4	Paper ID	1st Author	Title
A6-1	332	Dr. Daniar Fahmi	The Effects of Circulation Velocity and Cellulose Impurities on The Dielectric Strength of Synthetic Ester Oil-Based Nanofluids
A6-2	434	Dr. Abdallah Hedir	Study of the UV-Aging Resistance of Cyclic Olefin Copolymer (COC) Elastomer for Utilization in Medium Voltage Power Conductor Insulation
A6-3	78	Dr. Xiangyang Ye	Multiobjective Optimization and Machine Learning Application in the Design of Eco-Friendly High-Voltage Circuit Breakers
A6-4	4	Mr. Reza Mirzadarani	Exploring 3D-Printed Solutions for Medium-Voltage Insulation Applications

August 27, Wednesday			
Asama A			
Session A7			
T04: Advanced insulation systems 5	Paper ID	1st Author	Title
A7-1	387	Mr. Dimitris Axiotis	Evaluation of 3D Printed Materials for High-Voltage Applications: A Comparative Study of Dielectric and Mechanical Properties
A7-2			
A7-3	403	Mr. Pinwu Liu	Inverse Molecular Design Method for Insulating Gas Based on Generative Adversarial Networks
A7-4	234	Mr. Yoitsu Sekiguchi	Electrical Conduction in Polymeric Insulating Materials as Observed Using The Q-t Method

Session A8			
T04: Advanced insulation systems 6	Paper ID	1st Author	Title
A8-1	237	Mr. Junzhe Zhang	Partial Discharge of Power Modules Under Thermo-Pressure Coupling Conditions
A8-2	248	Prof. Wu Lu	Numerical Modeling of Streamer Branching in Alternative Transformer Oils under Positive Sub-microsecond Pulsed Voltages
A8-3	311	Mr. Xiuhan Guan	Plasma Jet Treatment on Metal Needle Defects for Partial Discharge Suppression
A8-4	259	Dr. Kyoko Kamiya	Experimental Study on Ignition and Combustion Behaviors of Natural Ester for Power Transformers

Session A9			
T04: Advanced insulation systems 7	Paper ID	1st Author	Title
A9-1	381	Prof. Man Ding	Study on the Radiation Damage Effect of HfO <sub>2</sub> -Based Ferroelectric Film under Gamma-Ray
A9-2	398	Prof. Pawel Rozga	Discharge Inception and Breakdown of Model Insulated Electrode System Immersed in Various Dielectric Liquids under Positive Lightning Impulse Voltage
A9-3	13	Mr. Muhammad Muzamil	Statistical Analysis of AC Breakdown Voltage for Palm Oil Aged in the Presence of Low Molecular Weight Acid and Moisture in Paper
A9-4	350	Mr. Ruifeng Wang	Gassing Analysis of Methane Ethylene and Ethane in Natural Ester Liquid Under Heating Conditions

Session A10			
T04: Advanced insulation systems 8	Paper ID	1st Author	Title
A10-1	353	Dr. ju min bao	Study on Characteristics of SF6 Gas Decomposition Products under High Temperature Arc Plasma Catalysis
A10-2	442	Ms.Obianuju Rosemary	Power Semiconductor Module Packaging with Reduced Electric Field and Common Mode Noise
A10-3	133	Prof. Hongfong Zhao	Simulation Analysis of Local Breakdown Phenomenon During Streamer Discharge Development of Natural Ester Insulating Oil Containing Copper Ions
A10-4	82	Mr. Heyu Wang	Exploring Carrier Injection and Migration Behavior in beta-Nucleation Regulated Polypropylene Insulation

August 28, Thursday			
Asama A			
Session A11			
T04: Advanced insulation systems 9	Paper ID	1st Author	Title
A11-1	99	Prof. Jin Li	Suppressing Interface Residual Stress of Epoxy Resin/Metal Inserts with Ultrasonic Assisted Curing Process
A11-2	155	Dr. Ze yu Zhao	Variable-Weight Fusion Detection of External Insulation Characteristic Parameters of Electrical Equipment Based on MTL Neural Network
A11-3	106	Dr. Zimin Luo	Simulation Study on Toughness Regulation of Epoxy Composites by Modified Dianhydrides
A11-4			

Session A12			
T10: Space charges 1	Paper ID	1st Author	Title
A12-1	111	Dr. Hanwen Ren	A Novel Non-Contact Space Charge Measurement Method Inside Insulation Based on Optical Ellipsometry Detection Principle
A12-2	151	Dr. Chao Dai	Space Charge Characteristics of Epoxy Based Nanocomposites Under High Electric Fields and High Temperature
A12-3	182	Mr. Pavel Pichugin	Investigation of The Space Charge Distribution in Polymeric Insulating Materials under HVDC with Superimposed Medium-Frequency AC Voltage
A12-4	193	Mr. Sebastian Braun	Impact of Different Embedding Insulating Liquids on the Space Charge Distribution in Polyethylene

Session A13			
T10: Space charges 2	Paper ID	1st Author	Title
A13-1	200	Dr. Shosuke Morita	Estimation of Conductivity in XLPE Cable Insulation Using Electric Field Distributions obtained from Space Charge Measurements by Pulsed Electro-acoustic Method
A13-2	231	Prof. Li Cai	Experimental Study of Leader Tortuosity and Velocity of Long Air Discharges at an Altitude of 4650m in China
A13-3	281	Mr. Qiang Wu	Positive Streamer Discharge of Rod-Plate Electrodes in High-Speed Airflow
A13-4	300	Mr. Tianrun Qi	A New Approach to Optical Measurements of Space Charge in Solid Insulation for High Spatial-Temporal Resolution

Session A14			
T10: Space charges 3	Paper ID	1st Author	Title
A14-1	388	Ms. Shafira Zahra	Pulse Voltage Application in Space Charge Measurement for Full Size Cable Using Pulsed-electroacoustic Method
A14-2	407	Prof.Oliver Pischler	Considerations on The Signal Amplification for PEA Space Charge Measurements
A14-3	287	Mr. Tobias Tamms	Development of A Nanosecond Transient Endurance Testing Bench
A14-4	395	Dr.Salman Minhas	Optically Visible Discharge Paths of Surface Flashover on Insulator

August 29, Friday			
Asama A			
Session A15			
T01: Electromagnetic field 1	Paper ID	1st Author	Title
A15-1	25	Prof. Carsten Trinitis	A Novel Dielectric Simulation Platform for Designing High Voltage Devices: Evaluation of Surface Charging Using High Performance and Cloud Computing
A15-2			
A15-3	302	Mr. Yanze Zhang	Research on The Influencing Factors of Electric Field Measurement Method Based on Electric-Field Induced Second Harmonic Effect of Focused Laser

Session A16			
T01: Electromagnetic field 2	Paper ID	1st Author	Title
A16-1	416	Dr. Weiwang WANG	Simulation of Temperature Distribution Based on Different Heat Dissipation Modes of High Frequency Transformer under Non-Sinusoidal Excitation
A16-2	438	Dr. Jinxin Cao	A Novel Approach for 50Hz Electromagnetic Induction Analysis of OPGW in High-voltage Transmission Line Systems
A16-3	279	Dr. Xiyu Yin	Dynamic Response Optimization and Simulation Analysis of a Novel MCR Based on Fast Excitation Structure

Oral Session Room B

August 25, Monday			
Asama B			
Special Session (SF6 free)			

Special Session (SF6 free)			

August 26, Tuesday			
Asama B			
Session B3			
T08: Industrial application of high voltage	Paper ID	1st Author	Title
B3-1	56	Dr. Kuniaki Kondo	Verification of Nitric Acid Immersion Test of Polymer Insulator Housing Materials for OHLs
B3-2	121	Ms. Arik Subhana	Effect of Ageing on Partial Discharge Characteristics of Technical Air and CO2 in Gas Insulated Switchgears
B3-3	202	Mr. Fuma Ueno	Deconditioning during Spark Conditioning for Vacuum Circuit Breaker
B3-4	344	Dr. Shuhang Shen	Size Optimisation for Active Part of Quadrature Booster Based on Genetic Algorithm

Session B4			
T03: Partial discharge 1	Paper ID	1st Author	Title
B4-1	7	Mr. Zhi Yang Lim	Examination of Denoising Techniques for UHF Partial Discharge Localization
B4-2	12	Ms. Nur Darina Ahmad	Partial discharge localization in Refined Bleached and Deodorized Palm Oil (RBDPO) based on Ultra High Frequency Signal
B4-3	225	Dr. Ruizhi Wang	Multimode Interferometric Optical Fiber Sensor for Partial Discharge Detection
B4-4	379	Dr. Petr Mraz	Utilization of Time- and Frequency- Domain for PD Measurement

Session B5			
T03: Partial discharge 2	Paper ID	1st Author	Title
B5-1			
B5-2	115	Ms. Ceren Briano	Reliable Partial Discharge Monitoring Data Analysis Based on Consistent Measurement Settings and System Configurations over The Life Cycle of Rotating machinery
B5-3	356	Dr. Norasage Pattanadech	Experience of On-line Partial Discharge in a 6.6 kV Induction Motor
B5-4	230	Mr. Hao Yang	The Study of Frequency-Domain Dielectric Spectroscopy of 72.5kv Resin-Impregnated Paper Bushings Under Moisture-Affected Conditions

Session B6			
T05: Partial Discharge 3	Paper ID	1st Author	Title
B6-1	108	Dr. Yong Joo Kim	Online Partial Discharge Measurement in Two Modes: Voltage Peak Mode (VPM) and Charge Integration Mode (CIM)
B6-2	192	Mr. Philipp Eifers	A Measurement Environment Suitable for The Evaluation of Corona Cameras
B6-3	212	Dr. Uwe Riechert	UHF PD Diagnostics of Eco-Efficient Gas-Insulated Switchgear
B6-4	153	Dr. Shigeyoshi Yoshida	Cumulative Energy Leading to Pb Damage due to Partial Discharge of Turbulence Type Bubble
B6-5	433	Mr. Iwan Lloyd Williams	A 3D Ray Tracing Based Model to Improve Substation-Wide Partial Discharge Localisation Accuracy

August 27, Wednesday			
Asama B			
SessionB7			
T05: Partial Discharge 4	Paper ID	1st Author	Title
B7-1	51	Dr. Toshihiro Hoshino	Degradation Diagnosis of GIS Insulator Based on Machine Learning of Partial Discharge
B7-2	55	Mr. Shiro Maruyama	Partial Discharge Sensitivity Characteristics of Spacer Type Sensor for GIS
B7-3	157	Prof. Pavel Trnka	Predictive Diagnostic Systems for High-Voltage Devices
B7-4	354	Dr. Shanika Matharage	Development of A Steady State 2-Furfural Production and Partitioning Model

SessionB8			
T03: High voltage testing techniques	Paper ID	1st Author	Title
B8-1			
B8-2	331	Mr. Promsak Apiratikul	Design and Testing of A Salt Fog Chamber for Installation in The High Voltage Laboratory Following IEC62217 Standard
B8-3	333	Ms. Zhaozhi Long	Development and Comparative Validation of a 1000 kV Coaxial-Shielded Resistive Voltage Divider
B8-4	391	Mr. Mateusz Kujda	Experimental Setup for 500 kV Step Voltage Generation to Establish the Dynamic Performance of High-Voltage Impulse Dividers at Nominal Voltage.

SessionB9			
T03: Insulation characteristics 1	Paper ID	1st Author	Title
B9-1	75	Ms. Nur Afqah Abdul Rahman	Effect of Lightning Waveshapes on Lightning Critical Current for 275 kV Transmission Line Performance
B9-2	92	Mr. Petros Tsouris	Breakdown Characteristics of Short Rod-Rod Air Gaps under Positive Standard Lightning Impulse Voltages
B9-3	209	Dr. Hiroya Homma	Influence of Volcanic Ash Deposits on Power Transmission Lines - Volcanic Ash Deposition and Insulation Performance of Insulators-
B9-4	131	Mr. Daniel Haze	Image-Based Analysis of Electric Tree Growth in Self-Healing Insulating Material

SessionB10			
T03: Insulation characteristics 2	Paper ID	1st Author	Title
B10-1	170	Mr. Hironori Komoda	Consideration of Test Method for Evaluating Dielectric Strength of Insulator Units of Cap and Pin Type for DC Transmission Lines
B10-2	280	Ms. Hasupama Piumupuli Jayasinghe	Humidity Effect on Electrical Discharge of Different Electrode Configurations under Positive DC Voltage
B10-3	183	Dr. Liliana Arevalo	Approximation of Air Humidity Correction Factor k for Indoor High Voltage HVDC Applications
B10-4	83	Mr. Matimba Louis Mathebula	Research into the Effect of Altitude on Conductor Corona Using a Mobile Corona Cage

August 28, Thursday			
Asama B			
SessionB11			
T03: Electromagnetic Interference	Paper ID	1st Author	Title
B11-1	181	Mr. Denis Baecker	Multi modular synthetic test circuit
B11-2	297	Dr. Kangmin Hu	Research on Electromagnetic Interference Characteristics of Digital Recorder for Impulse Current
B11-3	404	Dr. Alf-Peter Elg	Report on Progress on Novel Short Wavelength Fiberoptic Current Sensor
B11-4	351	Dr. Xin Li	A Real-time Correction Scheme for Wideband Voltage Measurement Errors

SessionB12			
T03: High voltage testing techniques 1	Paper ID	1st Author	Title
B12-1	43	Mr. Reza Mirzadarani	Design And Prototyping Of A Test Setup For Ampacity And Loss Analysis For A Six-Phase Cable System
B12-2	176	Dr. Zhiyun Han	Molecular Dynamics Simulation of Arc Erosion Characteristics of Graphene/Copper-Tungsten Alloy Contacts
B12-3	188	Prof. Shimin Li	Vacuum Breakdown Mechanism Classification Based on Class Weight Optimization with Imbalanced Samples
B12-4	425	Dr. Wei Wang	Characteristics of Package Insulation Interface Discharge under High-Frequency Steep-Pulse Square-Wave

SessionB13			
T03: High voltage testing techniques	Paper ID	1st Author	Title
B13-1	392	Dr. Urs Hammer	Demonstration and Validation of the Step Response Method at Nominal Voltage of High-Voltage Impulse Dividers
B13-2	380	Mr. Daniel Osterbacka	Influence of High-Voltage Loop Inductance and Proximity Effect on The Performance of A 1000 kV Damped Capacitive LI Divider.
B13-3	405	Dr. David Archie Wallace	Comparison of Temperature Rise Test Methods on Station Service Voltage Transformers
B13-4	262	Mr. Yudai Tomita	Numerical Simulation of Pressure Rise During Arc Inside Power Cable Termination

SessionB14			
T07: HVDC technologies 1	Paper ID	1st Author	Title
B14-1	114	Prof. Hongfeng Zhao	Research on Miniaturization and High Electrical Performance of SnO2 Varistor
B14-2	163	Prof. Naoki Hayakawa	Flashover Characteristics of Permittivity and Conductivity Graded Materials (z/o-FGM) in Dry Air for DC-GIS Spacer under DC/Impulse Superimposed Voltage
B14-3	261	Dr. Changzhi Peng	Three-Dimensional Full Process Simulation of Long Air Gap Discharges under Positive Switching Impulse Voltage
B14-4	283	Mr. Deniz Targitay	Effect of Moisture on the Dielectric Polarization in Liquid Silicone Rubber

August 29, Friday			
Asama B			
Session B15			
T07: HVDC technologies 2	Paper ID	1st Author	Title
B15-1	303	Mr. Kotaro Matsuyama	A Study on Flashover Characteristics under Lightning Impulse with DC Voltage Superimposed in High-Pressure Dry Air
B15-2	393	Mr. Mateusz Kujda	TOV voltages on HVDC Cable Systems - Approach, challenges, and limitations of generation
B15-3	130	Prof. George CHEN	Issues Related to HVDC Insulation Systems

Session B16			
T07: HVDC technologies 3	Paper ID	1st Author	Title
B16-1	323	Mr. Yao Wu	Micro-Structural Analysis of Self-Healing Evolution in Metallized Film Capacitors for HVDC Applications
B16-2	239	Dr. Wenyuan Li	Insulation Characteristics of 6.5kV High-Voltage SiC Power Module Packaging Structures under AC, DC, and Unipolar Square Wave Conditions
B16-3			



Oral Session Room C

August 25, Monday			
Asama C			
Special Session (SF6 free)			

Special Session (SF6 free)			

August 26, Tuesday			
Asama C			
Session C3			
T05: Condition Monitoring 1	Paper ID	1st Author	Title
C3-1	30	Dr. Igor Gutman	Evaluation of Repeatability and Reproducibility of The New-Developed Hydrophobicity Transfer Test for Polymeric Insulators
C3-2	71	Mr. Yoshinobu Kitagawa	Identification of Bubble-Induced Partial Discharge in Oil-Immersed Transformers
C3-3	72	Mr. Ryota Kuriyama	Fundamental Study on The Life Diagnosis of Oil-Immersed Power Transformers with Thermally Upgraded Kraft Paper
C3-4	220	Mr. Aref Sharifi	Implementation of a Fiber Optic Sensor for Rapid Arc Detection in Transformers to Prevent Explosions

Session C4			
T05: Condition Monitoring 2	Paper ID	1st Author	Title
C4-1	65	Prof. Ebrahim Rahimpour	Detection of Disk Space Variation in Power Transformers using Nonlinear Dimensionality Reduction Algorithm
C4-2	219	Dr. Anatoli Saveliev	Vibroacoustic Monitoring of On-Load Tap-Changers in Power Transformers: Methodology and Insights
C4-3	221	Prof. Issouf Fofana	Feasibility Study on Monitoring and Localization of Winding Deformations in Transformers via Vibration Signal Analysis
C4-4	240	Dr. Wojciech Koltunowicz	Benefits from Application of Monitoring System to Diagnose Insulation Defects in OIP Bushings of 300 MVA Power Transformers

Session C5			
T05: Condition Monitoring 3	Paper ID	1st Author	Title
C5-1	179	Dr. SAURAV PRAMANIK	Multi-Winding Inductive-Fault Detection in Star-Connected Transformer Windings Using Frequency Response Analysis
C5-2	352	Ms. Amita Singha	Suitability of Operational Modal Analysis for Online Condition Monitoring of In-Service Transformers
C5-3	145	Mr. Koma Sato	The Impact of Decomposition Gases on Equipment Operation due to Discharge Phenomena in Dry-Air Insulated Switchgear
C5-4	266	Mr. Behnam Balali	Feasibility of Using Red Pitaya SDR for Online UHF PD Monitoring in Power Transformers

Session C6			
T05: Condition Monitoring 4	Paper ID	1st Author	Title
C6-1	264	Dr. Peter Wouters	Real-Time Temperature Monitoring of Individual Power Cable Segments in Medium-Voltage Networks
C6-2	414	Mr. Takenao Sato	Phase-Resolved Measurement of Electric-Field-Induced Second Harmonics for Noninvasive Electric Field Sensing
C6-3	227	Ms. Ziying Cheng	In-situ Detection of Acetylene Dissolved in Current Transformer Oil Based on Micro-nano Fiber Sensor
C6-4	396	Ms. Petra Kristof	Practical Insights into The Use of FDS Method for Transformer Bushing Diagnostics
C6-5	19	Ms. Sandra Ploetz	The Influence of Connected Elements on The Frequency Response of Rotating Machines

August 27, Wednesday			
Asama C			
Session C7			
T05: New Technologies for Hybrid Energy Systems	Paper ID	1st Author	Title
C7-1	141	Prof. She Chen	High-Performance Hybrid Energy Harvester for Self-Powered Sensors in High-Voltage Transmission System
C7-2	126	Prof. Ying-Ting Huang	A Master-Slave Distributed Battery Management System Architecture for Scalable Energy Storage Applications
C7-3	109	Dr. Yong Joo Kim	Consideration in Pulse Sequence Analysis for High Voltage DC Systems and BESS
C7-4	410	Dr. Aart-Jan de Graaf	Maintaining Power Electronic Reliability Through The Resilience Triangle

Session C8			
T05: Degradation of Insulation Materials	Paper ID	1st Author	Title
C8-1	285	Mr. Anupa Ekanayaka	Study of ac Voltage Insulating Characteristics of Air under Smoke Conditions
C8-2	348	Dr. ARJIT BARAL	Combined Effect of Thermal Stress and Moisture on Degradation of Nomex Paper-Based Dry Insulation
C8-3	186	Dr. Ying Zhao	A Direct Characterization Method for Moisture Content Content of Transformer Insulating Oil Based on THz-TDS
C8-4	367	Dr. chen chen	Study on Morphological Characteristics of Cellulose Particle Shed During Thermal Aging of Oil-Paper Insulation Based on Microflow Imaging

Session C9			
T02: Transient voltages 1	Paper ID	1st Author	Title
C9-1			
C9-2	11	Mr. Urukundu K	Mitigation Strategies for Reducing very fast front Transient overvoltage Impact on Intelligent Protection Systems in 420 kV Gas Insulated Substations
C9-3	22	Prof. Shuji SATO	Generalised Impulse Generator Circuit's Waveform Analysis and Its Application to Inverse Problem
C9-4	27	Mr. Kosei Furusawa	FDTD Simulation of Lightning-induced Voltages in a Railway Facility

Session C10			
T02: Transient voltages 2	Paper ID	1st Author	Title
C10-1	140	Prof. Rastko Zivanovic	Modelling of Capacitive Voltage Dividers in Wide Frequency Domain Based on Rational Function Approximation
C10-2	58	Mr. Tobias Wendlinger	No-Load Power Transformer Switching with 145 kV Vacuum Circuit Breaker: Comparative Study of Connection Topology on Transient Voltage Stress at Transformer Terminals
C10-3	299	Mr. Katsuya Hayashi	The Measurement Result of Disconnecter Switching Surge and The Influence to Vacuum Monitoring System in Dry Air GIS
C10-4	363	Mr. Xiang Wang	Study on Arc Voltage and Dissolved Gas Characteristics of Oil under Transformer Arc Faults

August 28, Thursday			
Asama C			
Session C11			
T02: Lightning 1	Paper ID	1st Author	Title
C11-1	229	Mr. Takahiro Tajiri	Lightning Discharge Progression and Charge Distribution of Neutralized Charge in Thundercloud During Continuing Current
C11-2	34	Mr. Takashi Yamamoto	A Table-lookup Estimation of Overvoltage at Substation Based on Condition of Transmission Tower and Lightning Surge Arrester
C11-3	91	Mr. Petros Tsouris	Evaluation of The Lightning Overvoltages Arising on An Insulating Down-Conductor Using ATP-EMTP: Effects of Cross-Sectional Area and Lateral Placement from The Adjacent Grounded Structure

Session C12			
T02: Lightning 2	Paper ID	1st Author	Title
C12-1	326	Mr. Ahmad S Ayub	Effect of Lightning Peak Currents on Grounding for Solar PV Panels Assemblies
C12-2	330	Prof. I Made Yulistya Negar	The Effect of Installing Grounding Rods on the Frame and Mounting of Solar Panels on the Impact of Direct Lightning Strikes: Simulation Approach
C12-3	378	Mr. Anderson Ricardo Justo	Influence of the Soil Resistivity on the Quantification of Induced Effects on Hybrid Transmission Lines
C12-4	275	Dr. Linyu Zhang	Transient Characteristics of Distribution Networks with a Generalized Load Model Containing Distributed Photovoltaics

Session C13			
T02: Lightning 3	Paper ID	1st Author	Title
C13-1	64	Mr. Martin Meuser	An Inductance Matrix Expansion Method for Transient Analysis of Power Transformers using Single Turn Model
C13-2	46	Dr. Toshihiro Tsuboi	Experimental Results of Lightning Strikes on Wind Turbine Blades in Relation to Lightning Polarity and Receptor Placement
C13-3	440	Prof. Mi Zhou	Transient Response of Electrical Equipment in an Operational Wind Turbine Generator Subjected to a Rocket-Triggered Lightning Flash

Session C14			
T02: Lightning 4	Paper ID	1st Author	Title
C14-1	142	Prof. Daohong Wang	Remote Detection of Winter Upward Lightning Using A MF-HF Radio Wave Lightning Mapping System
C14-2	437	Mr. Muhammad Noh Hamza	Non-Destructive Testing for Corrosion Monitoring in Lightning Protection Systems
C14-3	397	Mr. Vladimir Djurica	Analyzing Lightning-Induced Outages in Medium-Voltage Networks: Insights from 15 Years of SCALAR System Correlation Data
C14-4	435	Mr. Vladimir Djurica	Analyzing Lightning-Induced Outages in Medium-Voltage Networks: Insights from 15 Years of SCALAR System Correlation Data

August 29, Friday			
Asama C			
Session C15			
T03: High voltage testing techniques 3	Paper ID	1st Author	Title
C15-1	31	Dr. Alejandro Figueroa	Impact of Tulip Contact Dynamics on Pressure Rise in High Voltage Circuit Breakers
C15-2	32	Dr. Alejandro Figueroa	Modelling Valve Dynamics and Its Influence on Pressure Rise in High Voltage Circuit Breakers
C15-3	389	Dr. ShanikaYasanthaMathar	Comparison of Laminar and Turbulent Flow Models for Simulating SF6 High-Pressure Arc Based on Finite Element Method

Session C16			
T06: Smart technologies	Paper ID	1st Author	Title
C16-1	124	Mr. Sohrab Ghafoor	Resonance Frequency Optimization in Transformer Gate Drivers of Series-Connected SIC MOSFETs with Programmable Switching Characteristics for High-Voltage Testing
C16-2	364	Prof. Yi Tian	Research on Surge Suppression Method on High Voltage Side of Voltage Transformer
C16-3	365	Prof. Yi Tian	Research on the Failure Mechanism and Failure Suppression Methods of High Voltage Circuit Breaker Closing Resistance

Poster Session 1

August 25, Monday

Chikuma			
Poster Session 1 (T04)	Paper ID	1st Author	Title
PS1-1	17	Prof. Shinji Yasui	SF6 Gas Resource Recycling Technology into High-Purity Fluorite
PS1-2	28	Dr. Tetjana Tomaskova	Innovative Approaches to Optimizing the Thermal Balance of Turbogenerators
PS1-3	39	Prof. Naoki Osawa	Effect of Nanofiller Addition to Dielectric Material on Impulse Flashover Voltage and Surface Charging in Dry Air
PS1-4	44	Prof. Katsumi Kato	Numerical Investigation of the Application of 2D FGM Insulating Spacer for Electric Field Relaxation
PS1-5	45	Mr. Hiromitsu Hirai	Effect of Composite Insulation on Breakdown Voltage in Dry Air
PS1-6	66	Mr. Takashi Sakamori	A Study on the Relationship between Discharge Time Lag and Electric Structure in Insulating Films
PS1-7	76	Mr. Seiya Kamohara	Basic Leads Insulation Characteristics for Realizing Gas Insulated Transformers with SF6 Alternative Gas
PS1-8	81	Ms. Laureen Stahl	PDIV and Breakdown Behavior of Magnet Wire Measured with Different Electrode Arrangements
PS1-14	144	Ms. Meike Jopert	Investigation of Degradation Products and Changes in Properties of Insulation Liquids and Paper due to Thermal Aging
PS1-9	97	Prof. Yang Feng	Synthesis of Grafted Polypropylene and Its Modulation Mechanism on Dielectric Energy Storage Performance
PS1-10	101	Prof. Radek Polansky	Effect of Various Carbon Particle Fillers on the Dielectric Properties of Epoxy-Based Composites
PS1-11	112	Ms. Jun Ting Loh	Electrothermal Model of a Medium Voltage Cable Joint with Refractive Field Grading under the Influence of Harmonics
PS1-12	118	Dr. Shinya Iwata	Impact of Polyethylene Density on Water and Ion Behavior: Insights from Molecular Dynamics Simulations
PS1-13	129	Mr. Hendrik Hensel	Numerical Simulation of Ion-Drift-Diffusion Models for Alternative Gases for SF6
PS1-15	172	Dr. Xiaoxiao Kong	PDA-Assisted Nanosilica Modification for Enhanced Dielectric Properties of Aramid Fiber Reinforced Epoxy Composite
PS1-16	185	Mr. Jiri Kopriva	Evaluation of Voltage Endurance of LLDPE/MgO Nanocomposites at Different Stress Fields
PS1-17	194	Mr. Patrick Gambeck	Insulating Capacity of a Coaxial Electrode Arrangement with Thick Dielectric Coating under Lightning Impulse Voltage Stress in Synthetic Air at High Pressures
PS1-18	201	Mr. Takuma Kinoshita	Effect of Stirring on Breakdown Voltage of Dissolved Water in Ester Insulating Oils at Power Frequency
PS1-19	203	Dr. Gi-dong Nam	Analysis of the Pressure Characteristics according to Insulation Gases under Internal Arc Test
PS1-20	207	Mr. Maik Kahn	Electrical Investigations of PLA: Impact of 3D Printing on Material Properties
PS1-21	215	Ms. Ingrid Gunheim Folkestad	Evaluation of Critical Triple Junctions for Medium Voltage GIS Applications
PS1-22	228	Ms. Laura Tiedemann	Investigation of the Dependency of AC Breakdown Strength of a CO2 Mixture on Different Parameters
PS1-23	247	Ms. Yifan Gao	Thermally Reversible Self-Healing Epoxy Resin for Power Electronic Packaging
PS1-24	250	Dr. Liuqing Yang	Collaborative Promotion of Both Dielectric and Mechanical Strength of Epoxy/Basalt-Fiber Composites by Potassium Ion Displacement
PS1-25	254	Mr. Shengtao Li	The Lifetime Assessment of Epoxy Insulation under Power Frequency Superimposed by High Frequency Bipolar Square Wave Voltages
PS1-26	263	Dr. Xiaojing Zhang	Effect of Silane Coupling Agent Grafting on the Dispersion of Nano-SiO2 Modified Insulating Paper
PS1-27	265	Dr. Xiaojing Zhang	Study on Thermal Conductivity and Dielectric Properties of Epoxy Resin Filled with Multiscale Silica-Boron Nitride
PS1-28	272	Dr. Manxi Li	A Copolyimide Film with Superior Energy Storage Performance at High Temperature
PS1-29	289	Dr. Yury Solovyev	Condition Assessment of Composite Insulators with Incorporated Communication Channel under Continuous Surface Charge Stresses in AC Applications
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PS1-31	301	Dr. RYUL HWANG	Surface Flashover Characteristics of Epoxy Within Fluorinated Nitrile Mixture Gas
PS1-32			
PS1-33	317	Dr. Kangning Wu	Effects of Rubber Phase on Thermal Ageing Characteristics of Eco-friendly Polypropylene Copolymer for Cable Insulation
PS1-34	328	Mr. Felix Kaiser	Influence of the Oxygen to Nitrogen Ratio on the Breaking Capacity of a Gas Insulated High-Speed Switch
PS1-35	347	Mr. Chan Yeol Ryu	A Study on the Electrical Properties of Insulation Materials for Modular Multilevel Converters in DC Ship Environments
PS1-36	355	Dr. Tessa Martins Carvalho carneiro	New OGTI Nanofluid as Insulating for High Voltage Transformers
PS1-37	371	Dr. Sukhwinder Singh	Exploring the Compatibility between C4F7N-Gas Mixture and Common GIS Insulator Material Using the Thermal Method
PS1-38	372	Dr. Michail Michelarakis	Decomposition of the C4F7N-O2-CO2 Gas Mixture Under Repetitive Lightning Impulse Breakdown Events
PS1-39	375	Dr. Michail Michelarakis	Gas Analysis of C4F7N Gas Mixture After the Exposure of Epoxy Resin and PTFE to Repetitive Surface Flashover Events
PS1-40	38	Prof. Yoshinobu MURAKAMI	Charge Behavior Measurement in Epoxy/BN Composite Material

Poster Session 2

August 26, Tuesday

Chikuma			
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PS2-2	15	Mr. Josip Ivankic	Accuracy Testing of Inductive Voltage Transformers with Open-Core for Transfer of Higher Harmonics
PS2-3	33	Prof. Hiroyuki Shimizu	Proposal of the Normalised Sum of Two Exponential Functions and Validity of the IEC 60060-1 Discriminant Separating LI and SI
PS2-4	49	Mr. Ryota Kitani	Analysis of Q(t) Measurement Data Using A 2nd-Order Time-Dependent Circuit Model
PS2-5	50	Mr. Yosuke Hoshi	Life Evaluation of Enamel Wire by High-Speed, High-Voltage Continuous Pulses
PS2-6			
PS2-7	63	Mr. Thorsten Klauke-Queder	Equivalent Circuit-Based Real-Time Determination of Conductor Temperatures for Type Testing of AC Power Cables with Integrated Extraction of the Skin Effect Factor
PS2-8	148	Dr. Satoru Miyazaki	Evaluating Overshoot in Lightning Impulse Test of Power Transformers and Reactors - Comparison of Definition in IEC60060-1 Ed. 2 and Ed. 3 -
PS2-9	175	Mr. Keonhee Park	Evaluation of Tracking Resistance using Fractal Analysis for Overhead Polypropylene Distribution Cable
PS2-10	187	Dr. Johann Meisner	Metrological Infrastructure for Traceable Electrical Insulation Testing for a Reliable Electricity Grid - ELITE
PS2-11	218	Mr. Kai Zhang	The Impact of Current Source Rectifier Polarity Reversal on Triple Junction Surface Discharge Characteristics in DC-GIS
PS2-12	222	Ms. Franziska Gebhardt	Comparison of the Dielectric Performance of Polluted Composite Insulators under AC and DC Stress using the Up-and-Down Method
PS2-13	235	Ms. Mengchen Yang	Deep Learning-Based Detection of Partial Discharge Characteristics Under Repetitive Pulses Excitation
PS2-14	238	Dr. Thiago Arantes Nogueira	Effects of Height/Radius Ratio of Surge Arrester Varistors on their Ageing by Short Duration Current Impulses
PS2-15	241	Mr. Felix Graff	Influence of Different Antenna Geometries and Structures on the Waveform Recorded During Contactless Impulse Voltage Measurements
PS2-16	257	Dr. Zexi Xing	The Influence of Metallic Liquid Films on Sliding Electrical Contact at the Armature-Rail Interface under Electromagnetic Launch Conditions
PS2-17	269	Mr. Zhen Li	Design of a Two-stage Steepening Electromagnetic Pulse Source Based on Pre-Ionization Switch
PS2-18	290	Dr. mohamadreza namavar zeyni vandi	Experimental Modeling of Partial Discharge Inception Voltage in Subtransmission Dry-type Transformers
PS2-19	291	Prof. Thomas John Hammarstroem	Evaluation of High Voltage Reflections and Their Influence on Voltage Stress on Motor Insulation Systems
PS2-20	292	Prof. Ricardo Diaz	Revisiting Disruptive Discharges in Non-uniform Short Air Gaps
PS2-21	295	Dr. Yusuke Aoki	Prediction of Insulation Life Based on the Relationship Between Discharge Energy and Erosion Depth by Void Discharge
PS2-22	304	Ms. Wenting Li	Research on the Characteristics Test of TMR Sensors for Measuring Impulse Current
PS2-23	309	Prof. Yunxiao Zhang	Simulation and Regulation Methods for Interface Breakdown in Double-Layer Dielectrics of Cable Joints
PS2-24	346	Mr. Il KWON	Impact of Grounding Resistance on Interruption performance in Current Injection type MVDC Circuit Breakers
PS2-25	368	Dr. Sukhwinder Singh	Thermal Decomposition of C4F7N-CO2-O2 Gas Mixture Based on Molecular Dynamics
PS2-26	441	Dr. Simon Podkoritnik	Impact Analysis and Protective Measures for Medium-Voltage Cable Systems Subjected to Nearby Lightning Strikes
PS2-27			
PS2-28	59	Mr. Tomoya Iizuka	Study on the Effectiveness of Various Artificial Pollution Test Methods for RTV Insulators
PS2-29	73	Ms. Chihiro Suzuki	Accumulated Charge Density Characteristics in Ester Oils
PS2-30	74	Mr. Yoshiki Kitaichi	Lightning Impulse Insulation Characteristics of Eco-friendly Transformer Winding Models using Natural Esters
PS2-31	77	Mr. Yosuke Ogura	Studies about Suppression of Rise in Ground Potential for Mesh Grounding Electrode
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PS2-34	190	Prof. Estacio Tavares Wanderley Neto	Analysis of Correlation between Voltage Distribution and Ageing of Medium Voltage Arresters
PS2-35	312	Ms. Rino Miura	Observation of Fermentation Process by Dielectric Spectrum Analysis
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PS2-39	376	Ms. Yu-Jin Kwak	Analysis of HVDC Fault Characteristics According to Inverter Side Short Circuit Ratio Values
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Poster Session 3

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Chikuma			
Poster Session 3 (T05)	Paper ID	1st Author	Title
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PS3-2	23	Dr. Chen Chen	Wireless Ultrasonic Signal Transmission Technology for GIS/GIL Sensor communication
PS3-3	47	Prof. Hideki Ueno	Analysis of EM and TEV Signals by Partial Discharge in Dry Air and SF6
PS3-4	48	Mr. Keiichi Nakajima	Deterioration Diagnosis Method of the Oil Filled Transformers using Thermally Upgraded Kraft Paper
PS3-5	60	Mr. Sven Musielak	Anomaly and Trend Detection in Powerline Communication Signals for the Condition Assessment of Distribution Network Cables
PS3-25	189	Mr. Sven Musielak	Quantitative Analysis of Volatile Operation and its impact on Turbine Generators
PS3-6	67	Prof. Nobuyuki Naoe	Experimental Assessment on Pumping Properties of Novel EHD Pump Prototype
PS3-7	85	Mr. Makoto Miyashita	Observations of Partial Discharge to Breakdown Transition in Highly Pressurized Dry Air
PS3-8	90	Prof. Yoji Fujita	Study on the Charge/Discharge Behavior of Lithium-ion Batteries Installed in High Voltage Positions
PS3-9	96	Dr. Mohd Fairouz Mohd Yousof	Stator Winding Diagnosis Using Frequency Response Analysis and Insulation Resistance Test
PS3-10	100	Dr. Pavel Prosr	Assessment of Aging Effects on Thermal Properties of Insulation System in Synchronous Generator under Fault Condition
PS3-11	105	Prof. Hideki Ueno	Proposal of Diagnosis Method by Discrimination between Corona and Creeping Discharge inside Equipment using Frequency Analysis of Partial Discharge Sensor Signals
PS3-12	110	Mr. Yusuke Jinno	Phase-Resolved Partial Discharge Pattern in Aluminum Foil/Oil-Impregnated Paper Composite Insulation System for Insulation Diagnosis of Capacitor Voltage Transformers
PS3-13	119	Dr. Tomoka Tsuya	Partial Discharge Measurement and Signal Analysis using Three Types of Sensors
PS3-14	120	Dr. Xinyan Wang	Influence of Voltage Pulse Width on the Discharge Termination Field in a Partial Discharge
PS3-15	125	Mr. Taisei Homma	A Study on Lifetime Evaluation of Thermally Upgraded Insulating Paper in Natural Ester-Immersed Transformer
PS3-16	132	Dr. Takashi Kurihara	Investigation of Water Trees as Degradation Factors of Insulation Performance of Removed E-E Type 6.6 kV XLPE Cables and Application of Degradation Diagnostic Methods to Cable with Bridging Water Trees
PS3-17	134	Dr. Richard Cselko	Detection of Moisture Ingress in Composite Insulators
PS3-18	135	Mr. Tae Yun Hong	Study on Partial Discharge Energy Calculation for Quantification of AC Partial Discharge
PS3-19	150	Mr. HA-YOUNG LEE	Life Evaluation Method of Cast-resin Transformer by Tan Delta Measurement : A Case Study
PS3-20	156	Dr. Shin Nakamura	Impact of Winding Temperature on Partial Discharge in Stator Windings
PS3-21	161	Mr. Yusaku Abe	Novel Method of Measuring Snow Conductivity Using ACM Sensor
PS3-22	165	Dr. TaLun Lo	A Case Study of Monitoring and Analysis of Inter turn Fault without Partial Discharge in the Cast-Resin Transformer
PS3-23	166	Mr. Yu-Wen Tseng	Comparative analysis of integrating trends and Phase Resolve Partial Discharge to identify partial discharge modes
PS3-24	174	Mr. Keonhee Park	The Application of Statistical Kappa for Comparing Reproducibility According to the VLF TD Deterioration Grades
PS3-26	204	Mr. Munseop Lim	A Study on Maintenance and Replacement Determination Using the Aging Index of Transformer DGA
PS3-27	210	Mr. Christian Kohlsaatz	Fault Detection and Localisation in High-Voltage Power Cables using Frequency Domain Analysis (FDA)
PS3-28	224	Ms. Thallia F. D. Fagundes	Modeling and Simulation of Partial Discharges in Distribution Transformers Using PLECS Software
PS3-29	226	Dr. Can Ding	ISCSO-VMD and Clustering Based Fault Line Identification Method for Distribution Networks
PS3-30	242	Dr. Richard Cselko	Investigation of Various Contaminants on the Performance of Non-Ceramic Insulators
PS3-31	251	Dr. Liuqing Yang	Terahertz Response Characteristics of Moisture Content in Oil-Paper Insulation at Extreme Low Temperature
PS3-32	233	Dr. Zehua Wu	A Novel Fast Calculation Method of Electro-Thermal Coupling Field for Digital Twin of Converter Transformer Bushing
PS3-33	267	Prof. Chanin - Bunlaksananusorn	The Experiment of the UHF Partial Discharge Measurement Based on Signal Conditioning Technique
PS3-34	282	Mr. Zhenyu Yi	Uncertainty and Sensitivity Analysis of Carbon Emission Calculation for 110 kV Cross-Linked Polyethylene and Polypropylene Cables
PS3-35			
PS3-36	296	Dr. Tsuguhiro Takahashi	Study of Statistical Failure Rate Analysis for Risk Evaluation of Electric Power Equipment Based on Operational Results
PS3-37	313	Mr. Hayato Katsume	Assessment of Electrical Tree Size in Silicone Gel using Waveform Characteristics of Partial Discharge
PS3-38	324	Mr. Janusz Szczechowski	Interaction between Transformer Monitoring Systems for Enhanced Asset Management
PS3-39	329	Dr. Jianfeng Liang	Vibration Characteristics Analysis of Extra High Voltage Cable under the Abnormal Cable Cleats Installation
PS3-40	373	Mr. Ho-Rim Ahn	AI-Based Prediction of Tan &Delta; in 6.6 kV XLPE Cables Under Accelerated Aging
PS3-41	377	Dr. Rahmat Ullah	Measurement of Surface Discharge Behaviour of Epoxy Insulation in Technical-Air/Co2/C4-Fn Mixture under Highly Divergent Electric Field Condition
PS3-42	382	Dr. Anantawat Kunakorn	Experience of Online Partial Discharge in Medium Voltage Switchgear
PS3-43	408	Mr. Shion Toyoda	Partial Discharge Current Propagation Characteristics of an Unmolded 6.6 kV Voltage Transformer
PS3-44	413	Dr. Jung-Hun Kwon	A Study on the Lifespan and Diagnostic Techniques of Molded Case Circuit Breakers
PS3-45	430	Prof. Hongwei Mei	A Diagnosis Method for Low-Voltage AC Series Fault Arcs Based on Time-Frequency Domain Features
PS3-46	20	Mr. Qiang Zeng	Fast Prediction of Static Magnetic Field Distribution in Transformers based on Physical-Informed Neural Networks



Poster Session 4

August 28, Thursday

Chikuma			
Poster Session 4 (T01,T02,T07,T10)	Paper ID	1st Author	Title
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PS4-2	61	Dr. Ivan Semenov	Thomson Coil Actuator with Multiple Current Excitations for Enhanced Reliability
PS4-3	168	Prof. YADONG YADONG FAN	Stray Current Distribution in Subway Tunnel Steel Structures with Hollow Section Structure
PS4-4	169	Mr. ZIHAO WANG	The Influence of Relative Spatial Orientation Variation of Metal Pipeline and Running Rails on Polarization Potential Distribution
PS4-5	253	Mr. Sixiao Xin	A study on the Influence of Different Short-circuit Faults on Deformation of Transformer Winding Based on Multi-physical Field Coupling
PS4-6	35	Dr. Ryuichi Nakane	Experimental Study on Concurrent Flashover of EGLA and Arcing Horn for Multi-Phase Back-Flashover Phenomena in Overhead Transmission Lines
PS4-7	52	Mr. Shinya Aichi	Evaluation of the Application of Vacuum Circuit Breaker for Capacitor/Reactor Bank Switchgear
PS4-8	103	Prof. Estacio Tavares Wanderley Neto	Effects of Transient Overvoltages on Phone Chargers
PS4-9	171	Dr. Akifumi Yamanaka	Electro-Geometric Model Based Shielding Failure Analysis Considering Sag of Transmission Lines, Lightning Channel Inclinations, and Non-flat Terrain
PS4-10	21	Mr. Yuki Okegawa	Study on Achieving Both Semiconductor Switch Protection and Fast Interruption in Fuse-Current-Limiting Hybrid DC Circuit Breakers
PS4-11	26	Mr. Tobias Mueller	Impact of Material Uncertainties: A Simulation and Uncertainty Quantification Approach
PS4-12	62	Dr. Ivan Semenov	Influence of Relative Humidity on Partial Discharge Inception Voltage under DC Stress in Presence of a Mid-electrode
PS4-13	113	Prof. Hongfeng Zhao	±1100kV UHVDC Transmission Line Insulator Balancing Ring Optimization
PS4-14	139	Ms. Wenjiao Zhang	Temperature Distribution and Ampacity Limitation of ±400 kV HVDC Submarine Cable Based on Electro-Thermal-Flow Multiphysics Simulation
PS4-15	164	Ms. Sakurako Tomii	Development of Outdoor Termination for 525 kv EHVDC Cable System
PS4-16	249	Mr. Shixiang He	Anchor Damage Analysis of 400 kV HVDC Submarine Cable Based on Finite Element Method
PS4-17	431	Dr. Roger Schurch	Characterization of Internal Solid Interfaces in Composite Insulators Under DC and AC Excitation
PS4-18	443	Mr. Amir Basiri	Probabilistic Estimation of Partial Discharge Inception Voltage in Air Insulation under Various Pulse Shapes
PS4-19	84	Mr. Yifan Yin	Effect of Graft Modification on the Conductivity and Space Charge Characteristics of PP/POE Composite Insulation
PS4-20	95	Dr. Naohiro Hozumi	A Short Review of the Calibration Methods used in the Pulsed Electro-acoustic Measurement of Space Charge and Electric Field Distribution
PS4-21	128	Mr. Pavel Slama	Effect of Thickness on Space Charge Accumulation in PP Film with Embedded Flame Retardants
PS4-22	160	Mr. Jinyang Peng	Experimental and Simulation Studies on the Simultaneous Measurement of Space Charge and Current in LDPE
PS4-24	213	Ms. Chenyu Wu	The Formation and Transport of Space Charge Packets in LDPE under Temperature Fluctuation
PS4-23	184	Mr. Henry Hirte	Direct Space Charge Measurement Using LIPP Method Without Amplifier
PS4-25	232	Mr. Haosen Du	Estimation of Insulating Performance Degradation in Epoxy Resin by Thermal Aging under Air Atmosphere or Vacuum Conditions Using Current Integrated Charge Method
PS4-26	314	Mr. Kohei Kuroki	Proposal of Approximate Method for Two-Dimensional Electric Field Distribution Using One-Dimensional Space Charge Distribution
PS4-27	357	Mr. Jinqiang Zhang	Study on Space Charge Characteristics of Silicone Elastomers at High Temperatures of 25 Celsius to 200 Celsius
PS4-28	439	Dr. Beibei Jia	Micro-zone Charge Transport Characteristics in Barium Titanate/Epoxy Composite
PS4-29	361	Prof. Yusuke Kikuchi	Modeling Study of Partial Discharge Phenomena between Enameled Wires under Repetitive Pulsed Voltages for Insulation of Inverter-Fed Motor Coils
PS4-30	339	Mr. Kanya Tojima	Streamer Discharge Inception and Propagation Behavior for a Needle-plane Electrode System in Compressed Dry Air
PS4-31	342	Mr. Ayumu Iwami	Partial Discharge Investigation on SiC Inverter-Fed Motor Windings under Reduced Air Pressure for More Electric Aircraft

List of Session Chair and Co-Chair

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A1&A2	25	13:00	17:00	Prof. Hayakawa@Nagoya University	Dr. Okabe@University of Tokyo
A3&A4	26	9:30	12:30	Prof. Radek Polanský@University of West Bohemia in Pilsen	Dr. Sekiguchi@Sumitomo Electric Industries, Ltd.
A5&A6	26	13:30	17:30	Dr. Roger Schurch@Universidad Tecnica Federico Santa Maria	Dr. Hayase@Fuji Electric Co.,, Ltd.
A7&A8	27	9:30	12:30	Prof. Tanaka@Tokyo City University	Dr. Nakamura@Central Research Institute of Electric Power Industry
A9&A10	27	13:30	17:10	Prof. Ohki@Waseda University	Dr. Sekiguchi@Sumitomo Electric Industries, Ltd.
A11&A12	28	9:30	12:30	Dr. Hiroki Kojima@Nagoya University	Dr. Kurihara@Central Research Institute of Electric Power Industry
A13&A14	28	13:30	17:10	Prof. Kai Wu@Xi'an Jiaotong University	Prof. Miyake(A13) & Prof. Tanaka(A14)@Tokyo City University
A15&A16	29	9:30	11:50	Dr. Okamoto@Fuji Electric Co., Ltd.	Prof. Umemoto@University of Tokyo
B3&B4	26	9:30	12:30	Prof. JA-YOON KOO@Hanyang University	Dr. Hoshino@Toshiba ESS Co.
B5&B6	26	13:30	17:30	Prof. George Chen@University of Southampton	Prof. Hikita@Kyushu Institute of Technology
B7&B8	27	9:30	12:30	Dr. Uwe Riechert@Hitachi Energy Ltd	Dr. Okabe@University of Tokyo
B9&B10	27	13:30	17:10	Dr. Alf-Peter Elg@RISE, Research Institute of Sweden	Dr. Homma@Central Research Institute of Electric Power Industry
B11&B12	28	9:30	12:30	Prof. Ricardo Diaz@National University of Tucuman	Prof. Sato@Utsunomiya University
B13&B14	28	13:30	17:10	Prof. Manu Haddad@Cardiff University	Prof. Kumada@Univercity of Tokyo
B15&B16	29	9:30	11:50	Dr. Liliana Arevalo@Hitachi Energy Ltd.	Dr. Fuse@Central Research Institute of Electric Power Industry
C3&C4	26	9:30	12:30	Prof. Wang Feipeng@Chongqing University	Dr. Nakamura@Central Research Institute of Electric Power Industry
C5&C6	26	13:30	17:30	Prof. Pavel Trnka@University of West Bohemia, FEE, RICE	Dr. Nakane@Central Research Institute of Electric Power Industry
C7&C8	27	9:30	12:30	Prof. Issouf Fofana@ViAHT - UQAC	Dr. Tsujkao@TEPCO Power Grid, Inc.
C9&C10	27	13:30	17:10	Dr. Motoyama@Central Research Institute of Electric Power Industry	Dr. Matsumoto@Central Research Institute of Electric Power Industry
C11&C12	28	9:30	12:30	Prof. Behzad Kordi@University of Manitoba	Dr. Yamanaka@Central Research Institute of Electric Power Industry
C13&C14	28	13:30	17:10	Prof. Hikita@Kyushu Institute of Technology	Dr. Tsuboi@TEPCO Holdings, Inc.
C15&C16	29	9:30	11:50	Prof. Nakano@Kanazawa University	Prof. Kikuchi@University of Hyogo