

Timetable(Venue) of ISH2025

August 24, Sunday						
Venue	Nagano1 (Main venue)	Asama A	Asama B	Asama C	Chikuma	Others
14:00-16:00	Registration					
August 25, Monday						
Venue	Nagano1 (Main venue)	Asama A	Asama B	Asama C	Chikuma	Others
9:30-16:00	Registration					
10:00-10:15	ISH 2025 Welcom					
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, 402				
August 26, Tuesday						
Venue	Nagano1 (Main venue)	Asama A	Asama B	Asama C	Chikuma	Others
9:30-16:00	Registration					
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	Technical Tour 1
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)	
13:30-14:50		Session A5 T04: Advanced insulation systems 3 406, 399, 149, 162	Session B5 T03: Partial discharge 2 19, 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	Technical Tour 2
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		
August 27, Wednesday						
Venue	Nagano1 (Main venue)	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, 214, 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 1, 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 3, 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						
Venue	Nagano1 (Main venue)	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 158, 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						
Venue	Nagano1 (Main venue)	Asama A	Asama B	Asama C	Chikuma	Others
9:30-10:50	Registration					
9:30-10:30		Session A15 T01: Electromegnetic field 1 25, 233, 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: Electromegnetic 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					

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 CO ₂ (70%)/O ₂ (30%) Gas Mixture as SF ₆ Alternative for High-voltage GIS
A1-2	69	Dr. Yusuke Nakano	Experimental Investigation on Breakdown Characteristics in CO₂-O₂-O₂-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 N ₂ O ₂ 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 C4F7N/O ₂ /CO ₂
A2-2	400	Prof. Boya Zhang	The spatiotemporal distribution measurements of electron and neutral particle densities in the C4F7N-CO ₂ gas mixture
A2-3	401	Prof. Boya Zhang	Active Learning-Driven Multi-Objective Optimization of SF ₆ -free Circuit Breakers
A2-4	402	Prof. Xingwen Li	Non-thermal Equilibrium Interruption Characteristics of C4F7N Gas Mixtures as an Alternative to SF ₆

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 affinity towards enhanced electrical insulating performance for dielectric polymers
A4-3	86	Prof. Xuetong Zhao	A Novel O-vanillin based Epoxy Insulating Material with Great Degradability, Hydrophobicity and Excellent Electrical Performance
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	Prof. Boya Zhang	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 Nanocomposites

Session A6			
T04: Advanced insulation systems 4	Paper ID	1st Author	Title
A6-1	332	Dr. Daniar Fahmi	The Influence of Varying Cellulose Impurities on The Dielectric Properties of Circulated 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	214	Prof. Christof Humpert	Development and Investigation of Silicone Rubber Bushings with 3D-Printed Electrodes for 52 kV
A7-3	403	Prof. Boya Zhang	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-1 method

Session A8			
T04: Advanced insulation systems 6	Paper ID	1st Author	Title
A8-1	237	Mr. Junzhe Zhang	Partial Discharge in 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 hafnium oxide 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 SF ₆ 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	The Charge Dynamics of Epoxy Based Nanocomposites with Nano-silica Doping at high temperatures
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 Tamm	Development of a nano second transient endurance testing bench
A14-4	395	Dr. Salman Minhas	Optically Visible Discharge Paths of Surface Flashover on Insulators

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	233	Dr. Zehua Wu	A novel fast calculation method of electro-thermal coupling field for digital twin of converter transformer bushing
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	Research on Dynamic Response Speed Optimization of Magnetic Controlled Reactors Based on New Fast Excitation Structure and Control Method

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 in Power Transformer
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	19	Ms. Sandra Ploetz	The influence of connected elements on the frequency response of rotating machines
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 Pattanadach	Experience of On-line Partial Discharge in a 6.6 kV Induction Motor
B5-4	230	Mr. Hao Yang	Investigation on Frequency Domain Dielectric Spectroscopy of 72.5 kV Resin-Impregnated Paper Bushings under Moisture 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	Charge Amount and Discharge Energy Damaging Pressboard due to Partial Discharge of Turbulance 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			
Session B7			
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

Session B8			
T03: High voltage testing techniques			
Paper ID	1st Author	Title	
B8-1	1	Prof. Christian Staubach	EXPERIENCE ON INVERTER VOLTAGE ENDURANCE TESTING OF ENAMELLED WIRES ACC. TO RELEVANT STANDARDS
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.

Session B9			
T03: Insulation characteristics 1			
Paper ID	1st Author	Title	
B9-1	75	Ms. Nur Afiqah 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 - Properties of 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

Session B10			
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			
Session B11			
T03: Electromagnetic Interference			
Paper ID	1st Author	Title	
B11-1	158	Ms. Sitti Amalia	DETECTION OF LEAKAGE CURRENT IN NATURAL CONTAMINATED INSULATORS USING FAST FOURIER TRANSFORM AND LINEAR REGRESSION FOR TRANSMISSION LINE DIAGNOSTICS
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 fiber-optic current sensor
B11-4	351	Dr. Xin Li	A Real-time Correction Scheme for Wideband Voltage Measurement Errors

Session B12			
T03: High voltage testing techniques 1			
Paper ID	1st Author	Title	
B12-1	43	Mr. Reza Mirzadaran	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

Session B13			
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 Arcing Inside Power Cable Termination

Session B14			
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 in Dry Air for DC-GIS Spacer under DC/Impulse Superimposed Voltage
B14-3	261	Dr. Changzhi Peng	Three Dimensional Full Process Simulation of Positive Long Air Gap Discharges under 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 6.5 kV High-Voltage SiC Power Module Packages Under AC, DC, and Square Waves
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 composite 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	Prof. Jun JIANG	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

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	Analysis techniques for pulse sequences in medium and high voltage DC and battery energy storage systems.
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 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	3	Dr. Aliasghar razikazemi	The Impact of Gas Pressure on the Very Fast Transient Overvoltage (VFTO)
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. Rasko 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 disconnector 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 Arresters
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 Negara	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 resources 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
PS1-9	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
PS1-14	144	Ms. Meike Jopert	Investigation of Degradation Products and Changes in Properties of Insulation Liquids and Paper due to Thermal Aging
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 Coastal 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
PS1-30	294	Dr. JaeKyoo Seong	Evaluation of Conductor Surface Treatment Methods for Eco-Friendly Dry-Air Insulated Gas Switchgear
PS1-31	301	Dr. RYUL HWANG	Surface Flashover Characteristics of Epoxy Within Fluorinated Nitrile Mixture Gas
PS1-32	305	Mr. Man Jin Ha	Study on the characteristics of ZnO Microvaristor sintering temperature of nonlinear resistive paint for GIS enclosure coating
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			
Poster Session 2 (T03, T08)	Paper ID	1st Author	Title
PS2-1	10	Mr. Amran Mohd Selva	EFFECT OF DIBENZYL DISULFIDE ON PARTIAL DISCHARGE CHARACTERISTICS IN OIL-IMPREGNATED CELLULOSE INSULATION
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	54	Dr. Yuxin Lu	A STUDY OF GROUNDING ELECTRODE DISCHARGE IN SOIL UNDER NEGATIVE DC VOLTAGE
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 vand	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
PS2-32	116	Dr. Seungmin Bang	Study on the Combined Accelerated Aging Test of Outdoor High Voltage Apparatus with respect to KEPCO Standard
PS2-33			
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
PS2-36	339	Mr. Kanya Tojima	Streamer discharge inception and propagation behavior for a needle-plane electrode system in compressed dry air
PS2-37	342	Mr. Ayumu Iwami	Partial Discharge Investigation on SiC Inverter-Fed Motor Windings under Reduced Air Pressure for More Electric Aircraft
PS2-38			
PS2-39	376	Ms. Yu-Jin Kwak	Analysis of HVDC Fault Characteristics According to Inverter Side Short Circuit Ratio Values
PS2-40	436	Prof. Wen CAO	Experimental Study on Dissipation Characteristics of Grounding Electrodes for Transmission Line Towers under Continuous Impulse

Poster Session 3

August 27, Wednesday

Chikuma			
Poster Session 3 (T05)	Paper ID	1st Author	Title
PS3-1	8	Mr. Oliver Resing	Condition Monitoring of On-Load Tap Changer Based on Feature Extraction of Vibroacoustic Signals and Motor Currents
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
PS3-6	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 in cast resin transformers
PS3-24	174	Mr. Keonhee Park	The Application of Statistical Kappa for Comparing Reproducibility According to the VLF TD Deterioration Grades
PS3-25	189	Mr. Sven Musielak	Quantitative Analysis of Volatile Operation and its impact on Turbine Generators
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 Kohlsaat	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	Fault line selection method for distribution network based on optimized VMD and K-means parameters
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	252	Mr. Ruohan Wu	Modeling and simulation analysis of X-ray backscattering for monitoring insulation defects in XLPE cable
PS3-33	267	Prof. Chanin - Bunlaksanusorn	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	284	Dr. Faisal Peer Mohamed	Partial Discharge Signal Extraction in Medium Voltage Cables using Machine Learning
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
PS3-40	373	Mr. Ho-Rim Ahn	AI-Based Prediction of Tan Δ 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-ARICODCAFN 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 unimolded 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

Poster Session 4

August 28, Thursday

Chikuma			
Poster Session 4 (T01,T02,T07,T10)	Paper ID	1st Author	Title
PS4-1	20	Dr. Jiahao Li	Fast prediction of static magnetic field distribution in transformers based on physical-informed neural networks
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. ZHAO 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	Simulating the Impact of Material Uncertainties on HVDC Cable Joint Design by Uncertainty Quantification
PS4-12	62	Dr. Ivan Semenov	Partial discharge inception under DC voltage in presence of a mid electrode in dependence of relative humidity
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			
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	Investigation of the effect of thickness on space charge accumulation in PP film with embedded flame retardants
PS4-22	160	Mr. Jinyang Peng	Simultaneous measurement and simulation of LDPE space charge and current characteristics
PS4-23	184	Mr. Henry Hirte	Direct Space Charge Measurement Using LIPP Method Without Amplifier
PS4-24	213	Ms. Chenyu Wu	The Formation and Transport of Space Charge Packets in LDPE under Temperature Fluctuation
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. Kohel 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 Enamelled Wires under Repetitive Pulsed Voltages for Insulation of Inverter-Fed Motor Coils