



Session Nr.	Author	Paper Title
Oral session 1	Simon Rowland	KEYNOTE: Chemical analysis of Solid Insulation Degradation using the AFM-IR Technique
	Christoph Felix Niedik	Effects on charge packets in XLPE: Field strength dependent formation and generation related to crosslinking temperatures
	Stephen Dodd	Assessing the ageing state of extruded HVDC cables with dielectric spectroscopy measurements
	Tao Liu	Evolution Process of Surface Discharge on Gas-solid Interface Under High Frequency Repetitive Impulses
	Shin Nakamura	Cavity propagation under repetitive voltage impulses in silicone gel for encapsulation of power modules
Oral session 2	J. Keith Nelson	KEYNOTE: Pathways to Self-healing Nanodielectrics
	Sijiao Wang	The thermal conductivity and electrical properties of epoxy resin composite with different size BN
	Rashid Hussain	Comparison of different dielectric characterization methods with TSDC spectra of silicone rubber filled with carbon black nanofillers
	Wenfeng Liu	Morphology and energy storage properties of nano-ZrO ₂ PP composite
	Yoshimichi Ohki	Several Experimental Results Indicating Filler/Polymer Interfacial Interactions in Polymer Nanocomposites
Oral session 3	Sombel Diahm	KEYNOTE: An original in-situ way to build field grading materials (FGM) with permittivity gradient using electrophoresis
	Guillaume Belijar	Impedance network modeling of non-linear resistive material
	Mitsunori Saito	Bistable Optical Functions of Polyethylene Glycol
	Qi Li	High-temperature and high-energy-density polymer dielectrics for capacitive energy storage
	Pugazhendhi Sugumaran Chelladurai	Analysis of Liquid, Polymer and Nanocomposite Polymer electrolyte for Lithium Battery



Oral session 4	Severine Le Roy	KEYNOTE: Modelling charge generation and transport in low density polyethylene irradiated by an electron-beam
	Mikael Unge	Identification of structural criteria for valence state localization in linear alkanes
	Christina Villeneuve-Faure	Handling geometric features in nanoscale characterization of charge injection and transport in thin dielectric films
	Philipp Simka	Air Breakdown at Sharp Edges
	Masahiro Sato	First-principles study of electron and hole transfer properties in various polymers
Oral session 5	Jinkai Yuan	KEYNOTE: Electrostrictive polymer composites based on liquid crystalline graphene for mechanical energy harvesting
	Muneaki Kurimoto	Influence of Elastomer Material and Stretch Direction on Relative Permittivity of Stretched Dielectric Elastomer
	Xiaoqing Zhang	Vibration energy harvesting with stretchable electrets
	Tobias Stubning	Design optimization of EAP-based haptic surfaces
	Christian Peter	Feedback of the amorphous phase on the ferroelectric phase - Imprint effects in P(VDF-TrFE)
Oral session 6	Allison Shaw	KEYNOTE: The dielectric effect of xylene on an organoclay-containing composite
	Diana El Khoury	Nanodielectric model samples to assess the detectability of interphases with Electrostatic Force Microscopy
	Marlene Stuefer	Influence of moisture and filler surface properties on the dielectric spectrum of epoxy-based nanocomposites
	Xinyu Wang	Effect of Surface Functionalization on the Dielectric Properties of Polypropylene Aluminium Nitride Nanocomposites



Oral session 7	Xingyi Huang	KEYNOTE: Dielectric Polymer Nanocomposites with Interconnected Boron Nitride Nanosheets for Thermal Management Application
	Dongri Xie	DC and High Frequency Dielectric Breakdown Characteristics of PP/Al ₂ O ₃ Nanocomposites
	Feipeng Wang	The Effect of Polyhedral Oligomeric Silsesquioxanes on Electrical Properties of Mineral Oil
	Thomas Paramanandam	The effect of Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ (BCZT) nanoparticles on the critical parameters of synthetic ester based nanofluids
	Eric David	Electrical properties of EVA/LLDPE blends with selectively located graphene nanoplatelets
Oral session 8	Ian Hosier	KEYNOTE: Polymer Blend Systems for HVDC Cable Applications
	Nicola Freebody	Enhanced Electrical and Thermal Rating Materials for Renewable Power Cable Connections
	Paolo Seri	Potentiality of nanofilled thermoplastic insulation for DC cables and capacitors
	Istebreq Abdulla Hamad Saeedi	On The Design of The Structure of Epoxy Resin Networks
	Yanqiu Yuan	Space Charge Accumulation in Polypropylene/Elastomer Blends with Different Elastomer Types
Oral session 9	Khaled Arafa Aly Helal	KEYNOTE: Partial discharge characteristics of a gas void embedded between oil impregnated papers under the effect of AC and DC voltage
	Priscillia Daniel	Partial Discharges for Diagnosis of Cavity Growth under Harmonics in HVDC XLPE Model Cables
	Axel Mellinger	Finite-Element Analysis of Three-Dimensional Polarization Mapping with Pulsed Diode Lasers
	Nathalie Morette	Partial discharges measurements and analysis as an evaluation tool for the reliability of polymeric-insulated cables used under HVDC conditions
	Didier Marty-Dessus	On the feasibility of (F)LIMM measurements on thin polymer films submitted to an external thermal stress



Dialogue session 1	Tomohiro Kubo	Partial Discharge Inception Voltage of Enameled Cellular Wire under Impulse Voltage
	Nageshwar Rao Burjupati	Ageing Indicators of Stator Winding Insulation Subjected to Elevated Frequency Voltage & Thermal Stress
	Michał Kunicki	Behavior of partial discharges in mineral oil with solid dielectric barrier under long-term AC voltage
	Takuya Kaneko	Effects of Heat and Radiation on the Terahertz Absorption in Silicone Rubber
	Pavel Hahn	Initial survey on application of infrared spectroscopy for estimating the lifetime of transformer oil
	Pavel Hahn	Changes in activation energy of thermal decomposition of mineral oil during accelerated thermal ageing
	Sven Schumann	Investigation of the Effect of Moisture on the Hydrophobicity Loss of Silicone Rubber for Outdoor Applications
	Sebastian Wels	Limitation of test sample arrangements according to IEC 60243-1: Electrical strength of insulating materials - Test methods
	Mikael Ritamaki	DC Voltage Endurance of Capacitor BOPP Films at High Temperature
	Sebastian Wels	Investigation of the partial discharge inception voltage of semiconductor sensor packages at impulse stress under the variation of pulse slope and temperature
	Toan Phung	Effects of Surface Charge on Partial Discharge Characteristics in a Cavity at Very Low Frequency Excitation
	Wenfeng Liu	Effect of moisture absorption on dielectric properties of polypropylene-based copolymer
	Subrata Karmakar	Study of Degradation Phenomena of Solid Insulation used in Extra High voltage Cable under Alternating Voltage Stress
	Yacine Abderrahmane Bencherif	Assessment of composite insulator's behavior during the aging of its housing material
	Yu Su	Effect of Interfacial Pressure on Electrical Tree between XLPE and Silicone Rubber
Shengya Qiao	Effect of Typical Adsorbents on the Evolving Law of Target Gases Involving Solid Insulation Dielectric Discharge in GIS	



Dialogue session 1	Xiaoxiao Kong	Effects of Electron Beam Irradiation on the Trap Distribution of Epoxy Resin under Repetitive Pulse Voltage
	Jingang Su	Mechanical Stretching Dependence of Electrical Treeing Phenomenon in EPDM
	Jingang Su	Effect of High Temperature on Electrical Treeing of Polypropylene with Repetitive Pulse Voltage
	Youcef Kemari	Unthresholded Recurrence Plots Analysis for Degradation Assessment of Power Cables Insulation
	Zhou Mu	Effect of Moisture on Frequency Domain Spectroscopy (FDS) for Oil-Impregnated-Paper Insulation
	Tao Han	Electrical Tree in Silicone Rubber under Voltage Combined of DC and Pulse
	Tao Han	Electrical Tree Characteristics in SiR/MMT Nano-composite under Repetitive Pulse Voltage
	Daria Wotzka	Experimental analysis of acoustic emission signals emitted by surface partial discharges in various dielectric liquids
	Victor Belko	Performance of Metal-Film Capacitors in Current Overload Mode
	Zepeng Lv	Estimating the partial discharge inception and extinction voltage in a non-conductive electrical tree
	Thanarat Tanmaneeprasert	Measuring and Simulating Partial Discharge Activity in a Spherical Cavity during Electrical Ageing Processes
	Maciej Kuniewski	Analysis of the Applicability of Various Excitation Signals for FRA Diagnostics of Transformers
	Pavel Trnka	Aging of EIS Based on Organic Esters
	Hualong ZHENG	Partial discharge characteristics during electrical tree growth in a LDPE
	Mohd Shahril Bin Ahmad Khair	Tracking the Progression of Sulfur Corrosion in Transformer Oil using Thin Film Sacrificial Copper Strip
Nicola Bowler	Dielectric Response of Cross-Linked Polyethylene (XLPE) Cable Insulation Material to Radiation and Thermal Aging	



Dialogue session 1	Yu Gao	Effect of Elastomer Type on Electrical Treeing Behavior of Polypropylene/Elastomer Blends
	Yu Gao	Effect of Gamma-ray Irradiation on Trap Characteristics of Polyethylene Based Micro/Nanocomposites
	Xiaofang Wang	Effect of Gamma-Ray Irradiation on Surface Potential Decay Behavior of Polyethylene Terephthalate Film
	Xiaofang Wang	Effect of Surface Fluorination on Interface Discharge Behavior between Polypropylene and Silicone Rubber under AC Voltage
	Pascal Rain	Partial discharge behavior of motorettes under different aging conditions
	Tomislav Zupan	Ageing, temperature and water content influence on oil-paper insulation: model preparation
	Victor Belko	A Model of Capacitance Frequency Dispersion caused by Degradation of Metal Film Capacitors End Connections
	Andrey Plotnikov	Performance of BaTiO ₃ -based Multilayer Ceramic Capacitors under High AC Loads
	Cènes Julien	Assessment of ageing in the insulation of HVDC model cables under thermo-electric stress
	Zhu Guangya	The Characteristics of Electrical Trees in XLPE Cable Subjected to Impulse Voltages Superimposed on AC Voltage
	Qun Gao	Effects of Charging/Discharging Cycles on Breakdown Characteristics of Polypropylene Film
	Kangle Li	The Role of Electrical Orientation on Water-Tree Propagation at Different Temperatures
Yong Liu	Effects of Adhesive Properties of Fine Particles on Surface Discharge of Outdoor Insulators in Fog-haze Conditions	
Dialogue session 2	Nageshwar Rao Burjupati	Characterization of LDPE-metal oxide nanocomposites using thermo-analytical and spectroscopic techniques
	Jian Hao Jian Hao	Physicochemical and Electrical Properties of the Insulation Pressboard Modified by Sputtering Al ₂ O ₃ Nano-Structure Layer on Its Surface
	Jin Li	Coupling Effect of Ambient Temperature and Nanoparticles on Surface Charge and Discharge Behavior of Epoxy/AlN Nanocomposites



Dialogue session 2	Muhammad Shoaib Bhutta	Influence of Polyhedral Oligomeric Silsesquioxane (POSS) on Space Charge Behavior and Trap Levels of XLPE/POSS nanocomposite
	Quyet D. Nguyen	LDPE/MgO nanocomposites as electrical insulator and ferroelectret for dielectrics transducers
	Ilkka Rytöluoto	Compounding, Structure and Dielectric Properties of Silica-BOPP Nanocomposite Films
	Florin Ciuprina	Estimation of Frequency Dependent Dielectric Behavior of PP-SiO ₂ Nanocomposite Interphase at Different Temperatures
	Mohamed Darwish	Impact of Nanoparticle Functionalization on Partial Discharge Activity within PVC/SiO ₂ Nanocomposites
	Minghang Wang	Effect of Coating on Surface Charge Accumulation and DC Flashover of Epoxy/Al ₂ O ₃ Nanocomposites
	Minghang Wang	Surface Charge Accumulation of Epoxy/Al ₂ O ₃ Nanocomposites under Magnetic Field
	Francesco Guastavino	Behaviour of Conventional and Nanofilled Impregnation Resins when subjected to PD activity
Dialogue session 3	Wong Jee Keen Raymond	Feature Pruning for Partial Discharge Classification using Modified IndFeat and Relieff Algorithm
	Richard Cselko	Applicability of the Dielectric Response Methods for Diagnostics of Power Transformers by Application of Return Voltage Measurement (RVM)
	Jose Ignacio Aizpurua	Towards a comprehensive DGA health index
	Rongsheng Liu	Flashover Feature along Oil/Pressboard Interfaces
	Mohammad Akbari Azirani	Effect of Surroundings of UHF Partial Discharge Probes on the Captured Pulses
	Cao Zhiyu	Influence of Surface Resistivity of HVDC Cable for Measuring Space Charge by LIPP Method
	Younes Norouzi	Feasibility of FDA method for classification and detection of faults in extruded DC cables
	Juan Manuel Martínez Tarifa	Statistical correlation between partial discharge pulses magnitudes measured in the HF and UHF range



Dialogue session 3	Bingliang Shan	Application of Online Partial Discharge Detection of Switchgear Based on Ultra-High Frequency (UHF) Method Cabinet
	Yoshimichi Ohki	Far-infrared Spectroscopic Identification of Nine Kinds of Antioxidants in Polymeric Insulation
	Mahdi Rahimbakhsh	Investigation of Partial Discharge Localization Based on Electrical Measurement
	Djamel Maadjoudj	Frequency analysis and recurrent plot of the leakage current to monitoring the insulator surface state
	Daniel Roger	Partial discharge location in laminated busbars
	Xuezhong Liu	Diagnostic Method of Inter-turn Void Defect in Rotating Machine Insulation Based on PD Detection at Induced Impulse Voltage
	Hong-yang Zhou	Comparative Investigations on Voltage Level of Commissioning Tests for Power Cable Joints with Artificial Defects using 50Hz AC and Damped-AC Sources
	Sahand Seifi	Sensitivity analysis of PD localization to the RLC model parameters of a transformer winding
	Toan Phung	Modeling of Dielectric Dissipation Factor Measurement over the Very Low Frequency to Power Frequency Range
	Guanshu Sun	Structure Optimization of Optical Fiber Composite Low Voltage Cable Based on Thermal Analysis
	Fernando Álvarez Gómez	Characterization of partial discharge measuring instruments by the generation of reference insulation defects in an experimental setup
	Youcef Benmahamed	Diagnosis of Transformer Oil Using KNN and Naïve Bayes Classifiers
	Jian Wang	Risk Assessment of Free Metal Particles in DC GIL
	Josef Pihera	Corona Discharge Pulse Sequence Analysis
Xuezhong Liu	Method of Non-contact Potential Measurement on HV Generator Stator Bar Based SiC Grading Coating Electroluminescence	
Louiza Hamidouche	Electro-Acoustic Reflectometry Method Modeling	



Dialogue session 3	Vladimir Chirkov	A Method to Determine the Interfacial Tension for the Conductive Liquid Medium/Liquid Dielectric Couple
	Feihu Zheng	Measurement of thermal diffusivity of thin films by thermal pulse method
	Abdullahi Mas'ud	An investigative study on the influence of correlation of PD statistical feature extraction on PD pattern recognition
	Laurent Boudou	Required conditions to shunt the dielectric charging phenomenon when probing the electron emission yield from thin dielectric layers
	Fernando Álvarez Gómez	Development of a programmable partial discharge generator for the evaluation of partial discharge measuring devices
	Alexander Driessen	Factors Influencing the Cable Performance under Low and Medium Vacuum Conditions
	Yeong Ho Lee	Frequency Analysis of a Contactless Coupler for Time-Frequency Domain Reflectometry
	Yuqi Zhang	Development of Dielectric Loss Test Device for Aged Insulating Spacer Taken from Long-term Service GIS
	Gyeong Hwan Ji	Analysis on the Relation between Return Voltage and Cross- Correlation for Time-Frequency Domain Reflectometry
	Christian Gianoglio	Comparison between PD acquisition system measurements using different number of bits for the quantization.
	Francesco Guastavino	A Predictive Maintenance Remote System based on Partial Discharges Measurements on Wind Turbines
	Alfredo Contin	Identification of Defects Supporting PD in Rotating Machines with Different Insulation Technologies
	Henryk Herman	Enhancing the Investigation of electrical insulation materials from development to in-service operation using Chemometric methods
	Attiq Ur Rehman	Detection of Rotor Inter-turn Short Circuit Fault in Doubly-fed Induction Generator using FEM Simulation and Wavelet Analysis
Michał Koziol	Analysis of optical radiation spectra emitted by electrical discharges, generated by different configuration types of high voltage electrodes	
Ulrich Lühring	Investigation on the pulse shape of DC corona discharges in air under varying test voltage level	



Dialogue session 3	Simone Vincenzo Suraci	Investigation of thermal degradation of LDPE-based materials through electrical measurements
	Daniel Wienold	Data analysis procedure and verification for DC PD measurements in the high frequency range
	Davoud Esmaeil Moghadam	Voltage Distribution in the Stator Windings of High Voltage Motors Fed by PWM Drives Part I: Effects of the Pulse Characteristics
	Davoud Esmaeil Moghadam	Voltage Distribution in the Stator Windings of High Voltage Motors Fed by PWM Drives Part II: Considering the Coil Arrangements
	Davoud Esmaeil Moghadam	Introducing of a Test Sample for IEC/TS 60034-18-42 to Assess the Durability of the Turn Insulation
	Sung Ho	The Effect of DC Pre-stress on DC Breakdown Properties in XLPE-LSR Interfacial Model for the HVDC XLPE Cable Joint
Dialogue session 4	Tarek Chihani	A new model for insulators AC flashover
	Mohammad Hamdan	The Temperature Dependence of Insulation Mechanical Properties and its Effect on Interface Pressure in Cable Joints
	Lionel Durantay	End Winding Protections Improvements Helping to Downsize dV/dt Filter For Medium Voltage Machine Fed by NPP Multi-levels Voltage Source Inverter Drive
	Ricardo Albarracín	Positive streamer simulation in nanodielectric fluids with Comsol Multiphysics
	George Callender	Simulation of Partial Discharge under Impulse Voltage Waveforms
	Yubo Wang	Study on Pyrolysis model of Mineral Insulating Oil and Temperature Field Simulation under Thermal Fault
	Apu Banik	Equivalent Circuit Model of Polluted Insulators with the Including Effect of Input Voltage Harmonics
	Yunshun Peng	Simulation of the electrical field distribution influenced by the defects in 220 kV silicone rubber cable joint
	Huidong Tian	Electrical Field Analysis of 1100kV DC SF6 Gas-Insulated Wall Bushing
	Hucheng Liang	Numerical Simulation of Electric Field Distribution along the DC-GIL Spacer with SF6/N2 Mixture



Dialogue session 4	Natalia Melnikova	Computer simulation of corona discharge: charge carriers in external zone
	Guanghao Qu	Radiation Effect on the Electron Transport Properties of SiO ₂ /Si Interface: Role of Si Dangling-Bond Defects and Oxygen Vacancy
	Youcef Kemari	Nonlinear Regression Modeling to Predict Thermal Endurance of XLPE Material under Thermal Aging
	Saskia Frobin	A Generic Approach for HVDC Cable Accessories Modelling
	Jens Kortenbrede	Evaluation of ion current modelling under variation of air pressure based on measurement data
Dialogue session 5	Robert Möller	Investigation of the Breakdown Voltage of Resin Impregnated Aramid Fibers at Medium Frequency
	Roger Walker	Impact of Crosslinking on the Dielectric Loss and Temperature Coefficient of Capacitance of Polyethylene
	Claudius Freye	Conductivity Measurement System Analysis
	Yang Ge	Effect of nanoparticle type on prebreakdown and breakdown characteristics of transformer oil
	Jian Hao	Physicochemical and Electrical Properties of the Insulation Pressboard Modified by Sputtering Al ₂ O ₃ Nano-Structure Layer on Its Surface
	Zhonglei Li	Effect of Field-dependent Conductivity on Surface Charge Dissipation in ZnO/Silicone Rubber Composites
	Almaz Kamalov	The influence of crystallinity on polarization of the polyimide films.
	Ivan Ivanov	Critical Parameters of Metallized Film Capacitor's Failure
	Wenyong Yue	Improving Surface flashover Performance of LDPE by Dopamine Based on Bionic Technology
	Daran Liu	Research on the Corona Inception Characteristics of AC Conductors at High Altitude Based on Ultraviolet Imagery
	Kazunori Kadowaki	Inhibition of Large Spike Current through Low-density Polyethylene under DC High Field by Mechanical Compression



Dialogue session 5	Gao Xinyu	Numerical simulation of gas breakdown in microgaps based on PIC/MCC method
	Zhuoran Yang	Properties of Temperature-Dependent Nonlinear Conductivity of SiR/SiC Composites
	Cheng Zhidong Cheng	Research on the influence of electric field on the conductivity of transformer oil
	Mariia Timshina	Simulation of nanosecond barrier discharge in air
	Sijun Wu	Electric Field Effects on Boiling Heat Transfer Of Low Global Warming Potential Coolants
	Dmitry Putintsev	Method for calculating electronic polarizability of water molecules and refractive index
	Guodong Meng	Role of thermal properties of cathode materials for the nanoscale breakdown in vacuum
	Thulasinath Raman Venkatesan	Influence of Composition and Preparation on Crystalline Phases and Morphology in Poly(vinylidene fluoride-trifluoroethylene-chlorofluoroethylene) Relaxor-Ferroelectric Terpolymer
	Sofia de Sousa Coutinho	High ionic conductivity in the solid electrolyte material Rb ₂ Ti ₂ O ₅
	Margarita Borisova	The charge relaxation in partially crystalline polyimide films
	Yangchun Cheng	Analysis on Overheating Failure of 3.3kV/50A single-chip sub-module of 3.3kV/3kA Press Pack IGBT for the Hybrid DCCB
	Feihu Zheng	Charge Mobility in Biaxially Oriented Polypropylene Films
	Nils Lavesson	Ion Current Measurements in Air for HVDC Applications
	Víctor Antonio Primo Cano	Analysing the Impact of Moisture on the AC Breakdown Voltage of Fe ₃ O ₄ Based Nanodielectric Fluids
	Loriane Desmars	High Voltage Electrical Properties of Epoxy / h-BN Microcomposites
Mladen Marković	Breakdown withstand of insulating liquid with paper insulated electrodes – a numerical approach	



Dialogue session 5	Yuqi Zhang	Radiation Charging Simulation of Alumina Ceramics Irradiated by Intense Pulsed X-ray
	Zetty Zakaria	Kerr Measurement Approaches in Propylene Carbonate under DC Electric Field
	Francisco J Duran-Olivencia	The Effect of Substrate Curvature on Flexible EHD Conduction Pumping Performance -- A Numerical Study
	Simon Spelzhausen	Temperature- and field-strength- dependent space charge and charge decay characteristics at silicone rubber/silicone grease interfaces
Dialogue session 6	Kazuki Ozawa	Influence of temperature gradient on charge accumulation phenomena of GIS spacer under DC field
	Kapil Faliya	Space Charges in Metal-Solid Electrolyte-Metal Structures
	Hanwen Ren	Research Challenges on Space Charge Measurement at High Speed under the Condition of High-frequency Voltage
	Awat Mulla	Numerical Model for Assessing the Impact of AC Ripple Voltage on Space Charge Accumulation inside Solid Thin Film Samples
	Weiwang Wang	Continuous positive space charge in silicone rubber insulation
	Miao Hao	The effects of semicon on space charge behaviour in XLPE model cables
	Kumiko Iguchi	Measurement of Space Charge Distribution in Double-Layered Insulating Materials Composed of Polyethylene and Rubber Films
	Song Jiancheng	Effect of Temperature on Space Charge Characteristics of Ethylene Propylene Diene Monomer
	Tao Li	Behavior of Space Charge under High Hydrostatic Pressure Measured by PIPWP Method
	Boxue Du	Simulation of Interface Charge Behaviors in HVDC Cable Accessory Based on Bipolar Carrier Transportation Model
	Boxue Du	Effects of Temperature on Surface Charge and Flashover Characteristics of Epoxy/SiC Composites
Jin Li	Suppressing Space Charge in LDPE/GO Nanocomposites for HVDC Cable Application	



Dialogue session 6	Wenbo Zhu	Effects of Moisture on Charge Behavior of Fluorinated Oil-paper Insulation under DC and Pulse Voltages
	Maimi Mima	Measurement space charge distribution in polyamide-imide film under square wave voltage practical environment for inverter-fed motor
	Menouar Azib	Numerical simulations for sensitivity analysis of the electrostatic force distance curve on charge localization in 3D
	Dmitry Rychkov	The Influence of Charge Density on Charge Decay in Chemically Modified Polypropylene Films
	Sergei Vasilkov	An electrohydrodynamic pump based on the field-enhanced dissociation near solid dielectric surface
	Nadia Saidi-Amroun	Dynamic of a Space Charge in Electron-Beam Irradiated Cross-Linked Polyethylene (XLPE)
	Xavier Sidambarompoulé	Assessment of Fallouts of the Thermal Step Method for measuring Space Charge in Liquid Dielectrics
	Amirhossein Abbasi	Conductivity and space charge dynamics of XLPE samples during temperature cycling
	Dmitry Rychkov	The Influence of Recrystallization Regimes on Electret Charge Stability in Low-Density Polyethylene Films
Dialogue session 7	Fan Jiang	Preparation and characterization of hollow ceramic sphere-epoxy composites
	Orestis Vryonis	Solvent Mixing And Its Effect On Epoxy Resin Filled With Graphene Oxide
	Xuwei Huang	Novel low dielectric loss polyimide film: synthesis and high frequency electrical properties
	Saskia Frobin	Generic field simulation framework for HVDC cables
	Mark Lashbrook	Creepage Discharge Investigations with Ester-based Dielectric Liquids Under Switching Impulse
	Bang-Wook Lee	Evaluation of Electrical Characteristics on HVDC Cable According to Electric Field Dependency
	Petr Kadlec	Effect of different type of polyethylene matrix on the properties of PE/HNT composites



Dialogue session 7	Subrata Karmakar	Vegetable Oil is an Alternative Fluid to Mineral Oil Used in High Voltage Application: An Experimental Study
	Muhammad Zeeshan Khan	Surface Modification and Electrical Characteristics of Direct Fluorinated Epoxy-resin/Alumina Composite
	Kazunori Kadowaki	Optimization of High Voltage Ripples for Alternate Propagations of Streamer Discharges and Water Droplets Produced by Electrospray
	Hong-yang Zhou	Insulation Characteristics of SF6/N2-Filled GIS Spacers under Lightning Impulse with DC Voltage Superimposed
	Man Ding	Radiation Effect of Hafnium Oxide based Metal-Insulator-Metal Capacitors under Gamma-ray
	Cheng Xiangrui	The formation characteristics of bubble in oil paper insulation and its influence on the breakdown
	Zhang Dujiao	Effect of Flow Rate and Precursor Sublimation Temperature on the LPCVD Growth of Hexagonal Boron Nitride
	Wenbo Zhu	Surface Charge Accumulation and Decay on Sputtered Oil-impregnated Paper
	Hucheng Liang	Temperature-dependent of Surface Charge and Flashover Characteristics on Double-layer Oil-paper Insulation under DC Voltage
	Xiaoxiao Kong	Surface Charge and Flashover Voltage of Fluorinated Polypropylene Film under DC and Pulse Voltages
	Jian Wang	Study on Designing Optimization of Particle Trap in DC GIL
	Yusuke Nakamura	Application of Dicyclopentadiene Resin as an Alternative to Epoxy Resin to Molded Transformer Insulating Materials
	Massimo Pompili	Natural Esters and Mineral Oils Fire Behavior
	Stéphane Holé	Liquid nitrogen impregnated paper for high-power superconducting cable insulation
Raphaël Guffond	Polymer electrical property simulation using genetic model	
Ulf Nilsson	Electric field enhancement from semiconductive protrusions in extruded power cables	



Dialogue session 7	Ahsan Ashfaq	Macro Bending Effect in Optical Fiber Composite Low Voltage Cable
	Gunnar Haakonseth	Electrical Properties of HVDC Mass-Impregnated Cable Insulation
	Gary Stevens	Thermoplastic blend balanced property developments for sustainable high performance power cables
	Qun Gao	Dynamic Distribution and Spreading Characteristics of Water Droplets on Polymer Insulator in Coastal Power Grid
	Stefan Kornhuber	Defined silicone rubber surface structures in a long-term test