### 2011 International Symposium on Electrical Insulating Materials (ISEIM 2011)
**Program (Tentative)**

**Tue. Sept. 6**

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>14:00 - 18:00</td>
<td>Registration</td>
<td>Desk in front of Café (Hamac de Paradis)</td>
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<tr>
<td>18:00 - 20:00</td>
<td>Welcome Party</td>
<td>Café (Hamac de Paradis)</td>
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**Wed. Sept. 7**

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<tr>
<th>Time</th>
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<tr>
<td>9:00 - 9:15</td>
<td>Opening Address</td>
<td>Prof. M. Nagao (Toyohashi University of Technology, Japan)</td>
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**Invited Lecture (Hall #1)**

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<th>Time</th>
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<tr>
<td>9:15 - 10:15</td>
<td>Inuishi Memorial Lecture/Prof. M. Zahn</td>
<td>Chair: M. Nagao (Toyohashi Univ. Tech.)</td>
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<td></td>
<td>S1 Unipolar Charge Transport in Oil-Pressboard Systems with Planar, Coaxial Cylindrical and Concentric Spherical Electrode Geometries</td>
<td>J. Jadidian and M. Zahn (Massachusetts Institute of Technology, USA)</td>
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<td>10:15 - 10:30</td>
<td>Break</td>
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<td>10:30 - 11:30</td>
<td>Symposium Invited Lecture/Dr. P.H.F. Morshuis</td>
<td>Chair: Y. Tanaka (Tokyo City Univ.)</td>
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<td>S2 Defects and Interfaces at DC Voltage</td>
<td>P.H.F. Morshuis (Delft University of Technology, The Netherlands)</td>
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<td>11:30 - 13:00</td>
<td>Lunch Break</td>
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**Oral Session A: Nano-composite 1 (Hall #1)**

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<th>Time</th>
<th>Session</th>
<th>Authors and Institutions</th>
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<tr>
<td>13:00 - 15:10</td>
<td>A1 [0013] Supporting the Electromechanical Nature of Ultra Fast Charge Pulses in Insulating Polymer Conduction</td>
<td>M. Xu (Xi’an Jiaotong University, P.R. China), G.C. Montanari, D. Fabiani (University of Bologna, Italy), L.A. Dissado (University of Leicester, Leicester, UK), A. Krivda (ABB Switzerland Ltd., Switzerland)</td>
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<td></td>
<td>A2 [0015] Generation Time and Morphology of Infancy Trees in Epoxy/silica Nanocomposite</td>
<td>T. Tanaka, T. Iizuka (Waseda University, Japan), J. Wu (Shanghai Jiao Tong University, P.R. China)</td>
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<td>A3 [0021b] Effect of Nanoparticles Loading on Electrical Tree Propagation in Polymer Nanocomposites</td>
<td>D. Pitsa, G.E. Vardakis, M.G. Danikas (Democritus University of Thrace, Greece)</td>
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<td>A4 [0161] Space Charge Injection in LDPE by Semi-conductive Electrode with Different Carbon Black Filling Rates</td>
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F. Niu, Y. Zhang, Z. An, F. Zheng, P. Ma (Tongji University, P.R. China), Q. Lei (Harbin University of Science and Technology, P.R. China)

A5 (0113) Nanostructured-coated XLPE Showing Improved Electrical Properties: Partial Discharge Resistance and Space Charge Accumulation
D. Fabiani, G.C. Montanari, A. Cavallini (DIE-LIMAT, University of Bologna, Italy), A. Saccani, M. Toselli (DICAM, University of Bologna, Italy)

A6 (0298) Preparation and Charge Transport of Polyimide Insulating Nanocomposite Films
J. Zha, Z. Dang (University of Science and Technology Beijing, P.R. China), G. Chen (University of Southampton, UK)

15:10 - 15:30 Break

15:30 - 17:15 Oral Session B: Dielectrics and Functional Materials (Hall #1)
Chair: C. Laurent (Univ. Toulouse), Co-Chair: H. Muto (Mitsubishi Electric)

B1 (SI) (0140f) Dielectric Properties of Al-doped CaCu3Ti4O12 Ceramics by Coprecipitation Method
S. Li, H. Wang, C. Lin, Y. Yang, J. Li (Xi'an Jiaotong University, P.R. China)

B2 (0044) Electropolymerization of Carboxylated Conducting Polymer/CNTs Composites for Use as Immunosensor
P. Netsuwan, S. Sriwichai, S. Panichphant (Chiang Mai University, Thailand), A. Baba, K. Shinbo, K. Kato, F. Kaneko (Niigata University, Japan)

B3 (0118) Culture Experiments for Mouse Fibroblast using Conductive Polymers
M. Onoda (University of Hyogo, Japan), Y. Abe (Otsubo Electricity Co. Ltd., Japan), K. Tada (University of Hyogo, Japan)

B4 (0033) Boron Nitride Based Poly(phenylene sulfide) Compsoites with Enhanced Thermal Conductivity and Breakdown Strength
X. Huang, W. Liu, P. Jiang (Shanghai Jiao Tong University, P.R. China), T. Tanaka (Waseda University, Japan)

B5 (0040) Various Ion-induced Phenomena Appearing in Dielectric Materials and Their Applications to Optical Devices and Biosensors
Y. Ohki, Y. Arai, S.J. Yu (Waseda University, Japan), K. Nomura, M. Fujimaki (National Institute of Advanced Industrial Science and Technology, Japan)

B6 (0140b) The Impulse Current Degradation of ZnO Varistor Ceramics
X. Zhao, J. Li, H. Li, S. Li (Xi’an Jiaotong University, P.R. China)

13:00 - 17:40 MVP (Mutual Visiting style Poster) Session 1 (Hall #3)

Group 1A Coordinator: N. Hozumi (Toyohashi Univ. Tech.)

MVP1-1 (0026) The Influence of Temperature on Water Treeing in Polyethylene
J. Wang, J. Wu, Y. Li, X. Zheng (Xi’an Jiaotong University, P.R. China)

MVP1-2 (0091) Influence of Structural Change by Water-tree Degradation on Electrical-tree Inception Voltage
T. Yamaguchi (Nagoya University, Japan), F. Komori (Toba National College, Japan), T. Kato, Y.
Suzuoki (Nagoya University, Japan), T. Tsuji, H. Mashima (Chubu Electric Power Co., Japan)

MVP1-3 [0109] Investigating the Impacts of Temperature on the Dielectric Response of Oil-paper Insulation System
H. Peng, M. Dong, M. Ren, J. Wei, J. Miao, X. Wu (Xi’an Jiaotong University, P.R. China)

MVP1-4 [0048b] Impact of Pressboard Aged States on the Time Domain Dielectric Characteristics of Oil-paper Insulation
S. Wang, M. Lei, H. Xu, D. Wang, G. Zhang (Xi’an Jiaotong University, P.R. China), Y. Chen (Shandong Electric Power Research Institute, P.R. China)

MVP1-5 [0082] DC Pre-breakdown Light in Hexane/low-density Polyethylene (LDPE) Insulation Composites Using a Long Image Guide Scope and a Streak Camera
A.I. Mohamed (University Malaysia Pahang, Malaysia), M. Mori, K. Kadowaki (Ehime University)

MVP1-6 [0029] Effect of Surface Charge Distribution on the Electric Field in a Void due to Partial Discharges using a long Image Guide Scope and a Streak Camera
H.A. Illias (University of Malaya, Malaysia), G. Chen, P.L. Lewin (University of Southampton, UK)

**Group 1B**

**Coordinator: M. Nagao (Toyohashi Univ. Tech.)**

MVP1-7 [0134] Dynamic Behavior of Water Droplet on Silicone Rubber Surface in Dynamic Drop Test
R. Kin, M. Kurimoto, Y. Murakami, M. Nagao (Toyohashi University of Technology, Japan)

MVP1-8 [0030] Experimental and Numerical Analyses of Molecular Vibrations in Poly-ε-caprolactone at Terahertz Frequencies
M. Komatsu, R. Sato, Y. Ohki (Waseda University, Japan), M. Mizuno, K. Fukunaga, S. Saito (National Institute of Information and Communications Technology, Japan)

MVP1-9 [0116] An Intelligent Monitoring and Diagnosis System for 330 kV Oil-immersed Power Transformer
H. Zhou, M. Dong, D. Yang (Xi’an Jiaotong University, P.R. China)

MVP1-10 [0138c] Study on Simulation of Fiber Optic Current Sensor
D. Wan, N. Chen, L. Zhong, Q. Yu (Xi’an Jiaotong University, P.R. China), G. Chen (University of Southampton, UK)

Y. Kudo, N. Yahara, M. Fujimoto, M. Kozako, M. Hikita (Kyusyu Institute of Technology, Japan)

MVP1-12 [0095] PD Detection under Impulse Voltage on an Actual SF₆ Bus Section with Protrusion Defects Fixed on HV Conductor
R. Ming, D. Ming, R. Zhong, Z. Lei, L.Y. Ming (Xi’an Jiaotong University, P.R. China), A. Qiu (Northwest Institute of Nuclear Technology of China, P.R. China)

MVP1-13 [0141] Development of Partial Discharge Location System in Oil-Filled Transformer Considering Acoustic Wave Propagation Properties
H. Murayama, T. Katayama, K. Yamada, M. Kozako, M. Hikita (Kyusyu Institute of Technology, Japan), K. Kashine, I. Nakamura (Kagoshima National College of Technology, Japan), H. Koide (Japan AE Power Systems, Japan)

**Group 1C**

**Coordinator: Y. Tanaka (Tokyo City Univ.)**

MVP1-14 [0064] Study on Effect of Temperature Gradient of TSDC Measuring System
J. Zheqiang, W. Jiandong, L. Li, L. Zhe, Y. Yi (Shanghai Jiao Tong University, P.R. China)

MVP1-15 [0108] Dependence of Space Charge Formation in Polyimide Film on Applied Voltage Wave Form
T. Ishii, S. Kikuchi, H. Miyake, Y. Tanaka, T. Takada (Tokyo City University, Japan)

MVP1-16 [0048a] Effects of Paper Aged States on the Space Charge Behavior in Oil-paper Insulation
S. Wang, D. Wang, M. Lei, H. Mu, G. Zhang (Xi’an Jiaotong University, P.R. China)

MVP1-17 [0088] Optical Measurement of Electric Field in a Dielectric Liquid Containing Space Charges
H. Ihori, M. Takemura, N. Masuichi, H. Nakao, S. Ito, M. Fujii (Ehime University, Japan)

MVP1-18 [0138d] Dynamic Polarization Modeling of Suspended Cells Under ac Field
Z. Yue, Z. Lisheng, C. Lin, X. Chuanxiang (Xi’an Jiaotong University, P.R. China)

MVP1-19 [0076a] The Three-layered Core Model Permittivity of Polymer Nano-composites in Electrostatic Field
S. Zijian, L. Xuguang, Y. Yi (Shanghai Jiao Tong University, P.R. China)

Group 1D Coordinator: T. Takahashi (CRIEPI)

MVP1-20 [0144] Quantitative Evaluation of Nano-silica Dispersion in Silicone Nanocomposites and Its Resistance to Erosion and Tracking
T. Tominaga, M. Kozako, M. Hikita (Kyushu Institute of Technology, Japan), R. Inoue, T. Kondo (NGK Insulators, Japan), G. Ueta, S. Okabe (Tokyo Electric Power Company, Japan)

MVP1-21 [0050a] Effect of Different Coning Angles on Flashover Characteristics across Machinable Ceramic in Vacuum
X. Huang, J. Zhan, N. Zheng, H. Mu, G. Zhang (Xi’an Jiaotong University, P.R. China)

MVP1-22 [0060] Superiority of Syndiotactic Polystyrene as an Electrical Insulating Polymer
I. Ikeda, S. Hikosaka, Y. Ohki (Waseda University, Japan)

MVP1-23 [0096] Application of Transient Earth Voltage Method in PD detection in GIS
R. Ming, D. Ming, R. Zhong, L. Hongjie (Xi’an Jiaotong University, P.R. China), A. Qiu (Northwest Institute of Nuclear Technology of China, P.R. China)

MVP1-24 [0127] Study about Mechanism of Conduction Mechanism for Polymer Insulating Material under ac High Field Application
S. Watanabe, K. Tohyama (Numazu National College of Technology, Japan)

MVP1-25 [0041] Role of UV Radiation in Pulsed Flashover along Vacuum-epoxy/nano TiO2 Composite Interface
Y. Cheng, Z. Wang, K. Wu, X. Chen, M. Li, L. Chen (Xi’an Jiaotong University, P.R. China)

MVP1-26 [0061] Analysis on Surface Characteristics of Composite Insulator Materials after Corona Discharge
W. Song, Y. Wang, W. Zhang, W. Shen, G. Zhang (Xi’an Jiaotong University, P.R. China), J. Wang, X. Li (Pingdingshan Power Supply Company, P.R. China)

Thu. Sept. 8

9:00 - 11:45 Oral Session C: Space Charge (Hall #1)

Chair: G. Chen (Univ. Southampton), Co-Chair: T. Takahashi (VISCAS)

(10:30 - 10:40 Short Break)

C1 (SI) [0079] Investigation of Space Charge at the Interface between the Insulation of Cable and Its Accessory
Y. Yin (Shanghai Jiao Tong University, P.R. China), J. Gu (Shanghai Electric Power Company, P.R. China), Q. Wang, Z. Li, Z. Wang (Shanghai Jiao Tong University, P.R. China)
C2 [0074] The Space Charge Decay of LDPE and HDPE under Different Temperatures
S. Mitsumoto (Toyota National College of Technology, Japan), M. Nagao (Toyohashi University of technology, Japan), L.A. Dissado (University of Leicester, UK)

C3 [0072a] Interesting Influences of Fluorinated Surface Layers on Space Charge Behavior in Polyethylene
C. Liu, Z. An, X. Chen, F. Zheng, Y. Zhang (Tongji University, P.R. China)

C4 [0154] Influence of Space Charge under Non-uniform Electric Field to Electrical Treeing in Epoxy Resin
M. Fujii, H. Shimose (Oshima College of Maritime Technology, Japan), M. Fukuma, T. Takao (Matsue College of Technology, Japan), M. Nagao (Toyohashi University of Technology, Japan)

C5 (SI) [0302] The Effect of Ageing upon Charge Traps in XLPE Cable Insulation
L.A. Dissado (University of Leicester, UK), A. Tzimas (University of Manchester, UK)

C6 [0051] The ac Breakdown and Space Charge Characteristics of LDPE in the Presence of Crosslinking Byproduct
N. Hussin (Universiti Malaysia Perlis, Malaysia), J. Zhao, G. Chen (University of Southampton, UK)

C7 [0085a] Measurement of Acoustic Property for Signal Recovery in PEA Method
M. Fukuma (Matsue College of Technology, Japan), R. Funo, Y. Murakami, M. Nagao (Toyohashi University of Technology, Japan), N. Hozumi (Aichi Institute of Technology, Japan)

9:00 - 11:45  Poster Session  (Hall #3)  Coordinator: T. Nakabo (Nissin Electric)

P1 [0024] Characteristic of Acoustic Emission Signals Generated by Electric Arc in on Load Tap Changer
A. Cichon, T. Borucki, T. Boczar, D. Zmarzly (Opole University of Technology, Poland)

P2 [0032] Global Trend on New Insulating Liquids for Electrical Insulation Properties
K. Miyagi, K. Wakimoto (Japan AE Power Systems Corporation, Japan)

P3 [0037] Detection of Rust in Coated Steel Plates Using Terahertz Waves
N. Fuse, T. Takahashi, T. Fukuchi, N. Kawai (Central Research Institute of Electric Power Industry, Japan), T. Shiina (Chiba University, Japan), M. Mizuno, K. Fukunaga (National Institute of Information and Communications Technology, Japan)

P4 [0067] Relationship between Remaining Antioxidant Content and Radiation-thermal Degradation in Crosslinked Polyethylene
M. Kanegami, T. Kurihara, N. Fuse, Y. Mizutani, H. Homma, K. Hide, T. Okamoto (Central Research Institute of Electric Power Industry, Japan)

P5 [0089] Effect of Surface Condition on the Evaluation of Hydrophobicity of Polymer Insulator
T. Tokoro, S. Kojima (Gifu National College of Technology, Japan), M. Nagao (Toyohashi University of Technology, Japan)

P6 [0110] Evaluation of Phthalocyanine Film Deposition using Hybrid Sensor of Quartz Crystal Microbalance and Optical Waveguide Spectroscopy
A. Uno, K. Shinbo, H. Ishikawa, Y. Ohdaira, A. Baba, K. Kato, F. Kaneko (Niigata University, Japan)
Effect of Magnetic Field on Electrical Treeing Behavior in XLPE Cable Insulation
Y. Gao, B.X. Du, Z.L. Ma (Tianjin University, P.R. China)

Hydrophobicity Evaluation of Polymer Insulator Using Surface Discharge Characteristics
B.X. Du, X.X. Cheng, J. Li, Z.L. Ma (Tianjin University, P.R. China)

The Effect of Nano-scale SiO₂ on the Flashover Voltage of Epoxy/SiO₂ Nanocomposite
B.X. Du, J. Li, M. Xiao, J.W. Zhang, Y.G. Guo (Tianjin University, P.R. China)

A Study of Charged Droplets on Silicone Rubber Nanocomposite Surface under dc Voltage Stress
B.X. Du, K. Zhang, J. Li, Y. Liu, H.H. Du, J.W. Zhang (Tianjin University, P.R. China)

Effects of Frequency on Treeing Phenomena in Silicone Rubber
B.X. Du, Z.L. Ma, Y. Gao, T. Han, M. Xiao, X.X. Cheng (Tianjin University, P.R. China)

Influence of Polymeric Polarity on the Interface of Nanocomposites
S. Li, G. Yin, C. Cheng, J. Li (Xi’an Jiaotong University, P.R. China)

Dielectric Properties of B-doped CaCu₃Ti₄O₁₂ Ceramics
S. Li, Y. Yang, H. Wang, J. Li (Xi’an Jiaotong University, P.R. China)

Surface Flashover in Vacuum and Bulk Breakdown in Polystyrene Nanocomposites
S. Li, W. Wang, F. Ni, G. Yin (Xi’an Jiaotong University, P.R. China)

Damage Effect of Typical Electronic Device under EMP
Y. Cheng, M. Ding, K. Wu, Y. Wang, D. Zhou, H. Ding, L. Yang (Xi’an Jiaotong University, P.R. China)

Space Charge and Electrical Breakdown in High Temperature Region of UV-irradiated PVC
M. Miura (Shimane Prefectural Police Headquarters, Japan), M. Fukuma (Matsue National College of Technology, Japan), S. Kishida (Tottori University, Japan)

The Intensity of Acoustic Cavitation Noise in Thermally Aged Insulating Oils
T. Boczar, D. Zmarzły, M. Szmecha (Opole University of Technology, Poland)

Charge Dynamics as Revealed by Pulse Discharge Current Spectra in Polymer Films
F. Zheng, C. Lin, Y. Zhang, Z. An (Tongji University, P.R. China)

11:45 - 13:00 Lunch Break

13:00 - 15:10 Oral Session D: Nano-composite 2 (Hall #1)
Chair: L. A. Dissado (Univ. Leicester), Co-Chair: T. Okamoto (CRIEPI)

[0253] Mechanism and Properties of Piezoresistive in Rubber-matrix Nanocomposites
Z.M. Dang, J.W. Zha (University of Science and Technology Beijing, P.R. China), K. Shehzad, J. Zhang (Beijing University of Chemical Technology, P.R. China)

[0035] Development of Simulation Techniques for Mechanical Strength of Nanocomposite Insulating Materials
A. Sano, A. Ohtake, K. Kobayashi, H. Matsumoto (Hitachi, ltd., Hitachi Research Laboratory, Japan)

[0087c] Dynamic Behavior of Space Charge in Epoxy/metal Oxide Nano-composite
B.X. Du, L. Yang, J.W. Zhang, Y. Gao (Tianjin University, P.R. China)

D4 [0069] Study of the Space Charge Behavior in Polyethylene Nano-composites under Temperature Gradient
  K. Wu, X. Chen, X. Liu, X. Wang, Y. Cheng (Xi’an Jiaotong University, P.R. China), L.A. Dissado (University of Leicester, Leicester, U.K)

D5 [0122] Improvement of Electrical Treeing Resistance in LDPE by Mixed Addition of Nano-Particles and Azobenzoic Compound
  Y. Yamano, M. Iizuka (Chiba University, Japan)

D6 [0049] Low Loss and High Dielectric Constant Poly(methyl methacrylate)/BaTiO₃ Nanocomposites Prepared by in situ Atom Transfer Radical Polymerization
  L. Xie, X. Huang, P. Jiang (Shanghai Jiao Tong University, P.R. China)

15:10 - 15:30  Break

15:30 - 17:45  Oral Session E: Surface Discharge / Power Equipment  (Hall #2)
  Chair: Suwarno (Institut Teknologi Bandung), Co-Chair: K. Kobayashi (Hitachi)

E1 (SI) [0087e] Surface Charge Accumulation and Decay of Epoxy Nanocomposites with TiO₂ Particles
  B.X. Du, J.W. Zhang, H.H. Du, Y. Gao, J. Li (Tianjin University, P.R. China)

E2 [0084] Study on Downsizing Techniques for Conventional Motors with Solid Insulation System
  H. Matsumoto, A. Ohtake, Y. Enomoto (Hitachi, Ltd., Hitachi Research Laboratory, Japan)

E3 [0126] Appearance of dc Dielectric Barrier Discharge
  T. Ishida (Shizuoka Institute of Science and Technology, Japan), K. Hirasawa, M. Dozen, Y. Tada (Cambwic Healthcare K. K., Japan)

E4 [0090] Long–term Aged Performances of Stator Insulation for Wind Turbine Generator under Repeat Pulse Voltage
  L. Xuezhong (Xi’an Jiaotong University, P.R. China), Z. Xiang (Goldwind Science & Technology Co., Ltd., P.R. China), W. Ying, C. Xiaocong, L. Dandan (Xi’an Jiaotong University, P.R. China)

E5 [0072b] Preliminary Study on Surface Properties of Surface Fluorinated Epoxy Resin Insulation
  Y. Liu, Z. An, J. Cang, F. Zheng, Y. Zhang (Tongji University, P.R. China)

E6 [0150] Fundamental Study on Location of Water Tree Degradation in Power Cables
  M. Kim, Y. Murakami, M. Nagao (Toyohashi University of Technology, Japan), T. Kurihara, T. Okamoto (Central Research Institute of Electric Power Industry), T. Tsuji (Chubu Electric Power Co., Inc.), N. Hozumi (Toyohashi University of Technology, Japan)

13:00 - 17:40  MVP (Mutual Visiting style Poster) Session 2 (Hall #3)
  Group 2A  Coordinator: N. Hozumi (Toyohashi Univ. Tech.)

MVP2-1 [0058] Numerical Analysis of Negative Surface Discharge Development in Air at Atmospheric Pressure
  H. Mu, Z. Zhang, X. Shao, G. Zhang (Xi’an Jiaotong University, P.R. China)

MVP2-2 [0025] Study on the Deep-charging Protection Technology of Space Polymers Modified by Inorganic Filler
J. Wu, J. Wang, Y. Kang, X. Zheng (Xi’an Jiaotong University, P.R. China)

MVP2-3 [0038] Development of Composite of Epoxy Resin and Iron Nanoparticles as a Low Eddy-current Loss Magnetic Material
Y. Hirose, D. Hasegawa, Y. Ohki (Waseda University, Japan)

MVP2-4 [0045] The Influence of Nano-filler on Space Charge Distribution in LDPE/silica Nanocomposites
J. Wu, L. Lan, X. Li, Y. Yin (Shanghai Jiao Tong University, P.R. China)

MVP2-5 [0068] Improvement of Heat-resistance of RTV Silicone Elastomers with Reduce Environmental Impact by Loading Nano-silica and Calcium Carbonate
H. Cho, Y. Ashida, S. Nakamura (Mie University, Japan), W. Shimizu, Y. Murakami (Shinshu University, Japan)

MVP2-6 [0086] Coating of Carbon Nano-tube Filled Epoxy Resin and Its Surface Conductivity
H. Nakatsu, M. Kozako, H. Toda, H. Ebihara, K. Yoshinaga, M. Hikita (Kyusyu Institute of Technology, Japan), D. Hirata, T. Miyamoto, M. Takei (Toshiba Corporation, Japan)

MVP2-7 [0301] Partial Discharge Characteristics of Epoxy Resin-based Nanocomposites Fabricated with Atmospheric Plasma Treated SiO2 Nanoparticles
W. Yan, B.T. Phung, T.R. Blackburn (University of New South Wales, Australia), Z.J. Han, K. Ostrikov (CSIRO Materials Science and Engineering, Australia)

**Group 2B**

**Coordinator: Y. Tanaka (Tokyo City Univ.)**

MVP2-8 [0020] Study on the Breakdown and Space Charge Properties of Epoxy Impregnated Paper Composites
W. Shen, K. Wu, W. Cao (Xi’an Jiaotong University, P.R. China)

MVP2-9 [0039] Space Charge Behavior of XLPE/silica Nanocomposites under High Electric Field
Y. Arai, E. Kanegae, T. Tanaka, Y. Ohki (Waseda University, Japan), S. Sutton (Dow Chemical Company, UK)

MVP2-10 [0066] Finite Element Simulation of LDPE/SiO2 Nanocomposite
L. Li, W. Jianong, J. Zheqiang, L. Xuguang, Y. Yi (Shanghai Jiao Tong University, P.R. China)

MVP2-11 [0111] Simultaneous Measurements of Space Charge Distribution and External Current
T. Mori, H. Miyake, Y. Tanaka, T. Takada (Tokyo City University, Japan)

MVP2-12 [0133] Space Charge Formation and Conduction Current in LDPE/MgO Nanocomposite under dc Ramp Field
N. Takamura, Y. Murakami, M. Kurimoto, M. Nagao (Toyohashi University of Technology, Japan), Y. Inoue, C.C. Reddy, Y. Murata (J-Power Systems Corporation, Japan)

MVP2-13 [0059] Temperature Effect on Space Charge Behavior in Oil-impregnated Paper Insulation
D. Wang, S. Wang, M. Lei, H. Mu, G. Zhang (Xi’an Jiaotong University, P.R. China)

R. Kochetov, T. Andritsch, P.H.F. Morshuis, J.J. Smit (Delft University of Technology, the Netherlands)

**Group 2C**

**Coordinator: K. Kato (Doshisha Univ.)**

MVP2-14 [0046] Effects of Heat Treatment and UV Irradiation on the Transition Metal Impurities in LaAlO3
D. Yamasaka, K. Tamagawa, Y. Ohki (Waseda University, Japan)
MVP2-15 [0075] Effect of Self-Assembled Monolayer on Polymeric and Organic Light-Emitting Diodes
   S. Park, M. Imanishi, T. Morimoto, T. Inden (Nagoya University, Japan), T. Nishikawa (Iwate University, Japan), T. Mori (Nagoya University, Japan)
MVP2-16 [0081] Gold Nanoparticles Synthesis Used for Sensor Applications
   C. Lertvachirapaiboon, A. Baba, K. Shinbo, K. Kato, F. Kaneko (Niigata University, Japan), S. Ekgasit, C. Thammacharoen (Chulalongkorn University, Thailand)
   N. Naito, T. Mori (Nagoya University, Japan)
   C. Lin, Z. Lisheng, Z. Yue, S. Yizhou, Q. Minchen (Xi’an Jiaotong University, P.R. China)
MVP2-19 [0130] Study on Time Lag of Void Discharge in Epoxy Resin by Considering Attenuation of X-ray Irradiation Dose
   M. Hayashi, H. Takada, M. Kozako, M. Hikita (Kyushu Institute of Technology, Japan), S. Nakamura, T. Umemura (Mie University, Japan), M. Higashiyama (Toshiba Corporation, Japan)
Group 2D   Coordinator: M. Nagao (Toyohashi Univ. Tech.)
MVP2-20 [0031] Preparation of New Microporous Carbon and its Electrochemical Performance for Electric Double-layer Capacitors Application
   Z.A. Noorden, T. Hirabayashi, M. Fujisaki, S. Matsumoto (Shibaura Institute of Technology, Japan)
MVP2-21 [0042] A Study of Defective Characteristics on HVAC Insulators for 33 kV Distribution System
   S. Nookuea, S. Chotigo, B. Pungsiri (King Mongkut’s University of Technology, Thailand)
   Y. Zheng, T. Yi, G. Zhang (Xi’an Jiaotong University, P.R. China), Y. Zhang, F. Yang (Henan Zhengzhou Power Supply Company, P.R. China), W. Song (Electric Power of Henan, P.R. China)
MVP2-23 [0083] Investigation of Cable and ItsAccessory Insulation in Extruded HVDC Cable
   P. Tang (Shanghai Jiao Tong University, P.R. China), J. Gu (Jiading power company), Q. Wang, X. Li, Y. Yin (Shanghai Jiao Tong University, P.R. China)
MVP2-24 [0043] A Study of Voltage Withstand of Various Gases under ac Voltage
   W. Tiamkatok, S. Chotigo (King Mongkut’s University of Technology, Thiland)
MVP2-25 [0138b] The Effect of Temperature and Field Strength on the Resistivity of Transformer Oil
   H. Li, L. Zhong, Q. Yu, X. Zhan, X. Cheng, X. Cao (Xi’an Jiaotong University, P.R. China), M. Hanai, S. Yamada, S. Mori, Y. Ebisawa (Toshiba Corporation, Japan)
   T. Kawashima, M. Kurimoto, Y. Murakami, M. Nagao (Toyohashi University of Technology, Japan)

Fri. Sept. 9

9:00 - 11:45   Oral Session FA: Partial Discharge 1 (Hall #1)
   Chair: G Zhang (Xi’an Jiaotong Univ.), Co-Chair: K. Okamoto (Fuji Electric)

(10:30 - 10:40  Short Break)

FA1 (SI) [0213] Variation of Surface Charge Distribution in the Process of PD Degradation
   C. Pan, Y. Meng, K. Wu (Xi’an Jiaotong University, P.R. China)
L. Wang, A. Cavallini, G.C. Montanari (University of Bologna, Italy), A. Vaughan, N. Freebody (University of Southampton, UK)

FA3  [0129] Partial Discharge Characteristics of Twisted Enameled Magnet Wires for Inverter-fed Random Wound Motors

FA4  [0121] The Effect of Threshold Value of PD Sensors on RPDIV and RPDEV of Twisted-pair Samples
K. Kimura, T. Matsumura (Nara National College of Technology, Japan)

FA5 (SI)  [0157] Properties of Discharges in Liquid and Simulation Using Whitehead Equivalent Circuit
Suwarno (Institut Teknologi Bandung, Indonesia)

FA6  [0153] Experimental Work on Epoxy Resin Samples Regarding Small Discharges and the Existence of Charging Effects below Inception Voltage
M.G. Danikas, X. Zhao, Y. Cheng (Xi’an Jiaotong University, P.R. China)

FA7  [0420] An Integral Equation for Analysis of Partial Discharge Data Obtained with an Asymmetric IEC(b) Electrode System at Various Applied Voltage Frequency
T. Okamoto, T. Takahashi, S. Miyazaki, T. Kuraishi (Central Research Institute of Electric Power Industry, Japan)

9:00 - 11:45  Oral Session FB: Conduction and Breakdown (Hall #2)
Chair: G. C. Montanari (Univ. Bologna), Co-Chair: N. Hozumi (Toyohashi Univ. Tech.)

(10:30 - 10:40  Short Break)

FB1 (SI)  [0297] A Discussion on the Electronic Properties of Polyethylene Interfaces
C. Laurent, F. Baudoin, V. Griseri, S. Le Roy, G. Teyssèdre (University of Toulouse, France)

FB2  [0078] Breakdown Characteristics of PCB Paralleled Traces Injected by Rectangular Pulse
G. Meng, Y. Cheng, J. Song, Y. Liu, K. Wu, J. Dong (Xi’an Jiaotong University, P.R. China)

FB3  [0155] Study on the Field Behavior at the Contact Point between a Covered Conductor and a Dielectric Solid
Q.V. Huynh, B. Techamnmat (Chulalongkorn University, Thailand)

FB4  [0093] Development of Breakdown in Solid/gel Insulators under ac Voltage
M. Fujii, S. Akamatsu, H. Ihori (Ehime University, Japan)

FB5 (SI)  [0282] Towards Understanding of High Electric Field Phenomena in Polymeric Dielectrics
G. Chen (University of Southampton, UK)

FB6  [0077c] Measurement of Surface Resistivity on Gamma-ray Irradiated Polymer Insulating Materials
Y. Gao (Tianjin University, P.R. China)

FB7  [0135] DC Dielectric Breakdown Characteristics of Mesoporous-alumina/epoxy Composite
M. Kurimoto, D. Kusaba, H. Suzuki, Y. Murakami, M. Nagao (Toyohashi University of Technology, Japan)
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<tr>
<td>11:45 - 13:00</td>
<td>Lunch Break</td>
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<td>13:00 - 17:00</td>
<td>Technical Tour</td>
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<tr>
<td>18:30 - 20:30</td>
<td>Symposium Banquet (Kyoto Heian Hotel)</td>
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**Sat. Sept. 10**

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<tr>
<th>Time</th>
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| 9:00 - 11:30 | **Oral Session GA: Partial Discharge 2  (Hall #1)**  
*Chair: S. Li (Xi’an Jiaotong Univ.), Co-Chair: M. Hikita (Kyushu Institute Tech.)*  |
| (10:30-10:45)| Short Break                                         |

GA1 (SI) [0388] Understanding Partial Discharge Activity in Transformer Oil due to Particle Movement under High Frequency ac Voltage Adopting UHF Technique  
M. Archana, B. Kalpana, R. Sarathi (Indian Institute of Technology Madras, India)

GA2 [0077a] Effect of Defect Size on PD Pulse Characteristics Measured with High Frequency Current Transformer in XLPE Insulation  
Y. Gao, B. Du, T. Han (Tianjin University, P.R. China)

GA3 [0073] Location of Multiple Partial Discharge Sources Using MAP Estimation for Consecutive Pulses  
H. Ishimaru (Nagoya Institute of Technology, Japan), M. Kawada (The University of Tokushima, Japan)

GA4 [0070] Internal Defect Position Evaluation of the Ground Coil by Detecting the Electromagnetic Waves from the Partial Discharge  
M. Suzuki, S. Ota, R. Ikeda (Railway Technical Research Institute, Japan), M. Kawada (The University of Tokushima, Japan)

GA6 [0071] PD Detection and Recognition Based on UHF Method for Typical Models in Air  
D.P. Duan, P. Wang, L. Han, Y.H. Lu, W. Li (Beijing Electric Power Research Institute, P.R. China)

GA7 [0052] Simulation on Locating Partial Discharge in T-shaped Branch of GIS by Applying the STA/LTA Ratio Method to EM Waves Leaked from Insulating Spacers  
X. Shao, Y. Tian, M. Kawada (The University of Tokushima), G. Zhang (Xi’an Jiaotong University, P.R. China)

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<th>Time</th>
<th>Event</th>
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</table>
| 9:00 - 11:30 | **Oral Session GB: Treeing / Aging  (Hall #2)**      
*Chair: B. Du (Tianjin Univ.), Co-Chair: Chair: M. Nagao (Toyohashi Univ. Tech.)*  |
| (10:30-10:45)| Short Break                                         |

GB1 (SI) [0057] Temperature Effect on Frequency Domain Spectroscopy Characteristics of Oil Impregnated Pressboard  
C.S. Xu, S.Q. Wang, H. Xu, G.J. Zhang (Xi’an Jiaotong University, P.R. China)

GB2 [0103] Water-tree Property of Cross-linked Polyethylene-insulated Cable under γ-ray Irradiation  
S. Yasuda, T. Yamazaki (Hitachi Cable, Ltd., Japan), A. Idesaki, T. Ohshima (Japan Atomic Energy Agency, Japan)

GB3 [0165] Study of Montmorillonite on Morphology and Water Treeing Behavior in Crosslinking
Polyethylene
L. Xiufeng, X. Man, L. Xin, X. Darong, C. Xiaolong (Xi’an Jiaotong University, P.R. China)

GB4 [0131] Visualization of Electrical Trees by 80 MHz-band Pulsed Ultrasound
Y. Murakami, S. Kida, M. Kurimoto, M. Nagao, N. Hozumi (Toyohashi University of Technology, Japan)

GB5 [0101] Study on Dielectric Properties of Oil-impregnated Paper and Epoxy/fiberglass Composite during dc Accelerated Ageing
J. Wang, X. Liu, J. Zhang (Xi’an Jiaotong University, P.R. China), P. He (Nanjing Electric (Group) Co., Ltd., P.R. China)

GB6 [0062] Effects of Temperature on Water Tree Initiation and Propagation at Equivalent ac Frequency
H. Uehara (Kanto Gakuin University, Japan), K. Kudo (Meiji University, Japan), Y. Ishikawa, T. Kanekawa, Y. Tsuboi, T. Yoshimitsu (Toshiba Mitsubishi-Electric Industrial Systems Corporation, Japan)

GB7 [0119] Characteristics of High Voltage Polymer Insulator Under Accelerated Artificial Tropical Climate Multi Stress Aging
S. Manjang, Mustamin (Hasanuddin University, Indonesia), M. Nagao (Toyohashi University of Technology, Japan)

Closing Remarks (Hall #1)
11:45 - 12:00  Closing Remarks/Prof. Y. Tanaka (Tokyo City Univ.)
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<tr>
<th>SS-1</th>
<th>Development of Pre-breakdown Discharge Detection Test for Aged XLPE Cable to Find a Deteriorating Water Tree</th>
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<tbody>
<tr>
<td></td>
<td>T. Takahashi, T. Kuraishi, T. Takahashi, H. Suzuki, T. Okamoto (Central Research Institute of Electric Power Industry, Japan)</td>
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<tr>
<td>SS-2</td>
<td>Terahertz Spectroscopy and Imaging Techniques in Practice</td>
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<td></td>
<td>K. Fukunaga (National Institute of Information and Communications Technology, Japan)</td>
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<tr>
<td>SS-3</td>
<td>Technologies for High Voltage dc Transmission System</td>
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<td></td>
<td>H. Kon (VISCAS Corp., Japan)</td>
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<td>SS-4</td>
<td>Technical History and Future Prospects of Cast Epoxy Resin Systems for Heavy Electrical Insulation Materials</td>
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<td>S. Hishikawa (Huntsman Japan K.K., Japan)</td>
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<tr>
<td>SS-5</td>
<td>Introduction of Environmentally Conscious Transformer Products</td>
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<td>T. Hikosaka (Japan AE Power Systems Corporation, Japan)</td>
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<td>SS-6</td>
<td>Power Module with New Features for SiC Devices</td>
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<td>Y. Iizuka, N. Nashida, M. Horio, Y. Nakamura, Y. Ikeda (Fuji Electric Co., Ltd., Japan)</td>
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<tr>
<td>SS-7</td>
<td>Downsizing 550 kV GIS by Applying Dielectric Coating</td>
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<td>S. Kainaga, T. Miyamoto, M. Yoshimura, T. Tsurimoto, H. Sadakuni (Mitsubishi Electric Corporation, Japan)</td>
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<tr>
<td>SS-8</td>
<td>Experiment and Calculation on Insulation/thermal Characteristics of High Thermal Conductive Motors</td>
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<td>Y. Yoshitake, K. Obata, Y. Enomoto, Y. Okabe (Hitachi Co. Ltd., Hitachi Labs., Japan)</td>
</tr>
<tr>
<td>SS-9</td>
<td>Development of Epoxy Resins Modified with Lignocellulosic Biomass for Insulating Materials</td>
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<td></td>
<td>G. Komiya (Toshiba Corporation, Yokohama National University, Japan), K. Yamazaki, T. Imai, J Sato, Y. Todo, T. Fukumoto (Toshiba Corporation, Japan), A. Takahashi (Yokohama National University, Japan)</td>
</tr>
<tr>
<td>SS-10</td>
<td>Application-oriented Researches on Nanocomposite Insulating Materials</td>
</tr>
</tbody>
</table>
**The Way of Presentation**

All papers accepted for ISEIM2011 must be presented at the Conference. Papers will be presented in poster, MVP, or oral sessions.

**Poster sessions:** Your poster should attract the viewer's attention and suggest the scope of the work and the most important results. Avoid unnecessary details. The fine points of the research can be developed during one-on-one discussions. Authors are encouraged to devise presentations that are best suited to the work and are given considerable latitude in the presentation of their results.

In the Poster session, you are to be provided a poster board.
The size of your poster board is a height of approx. 1.8m and a width of 0.9 m. Thus, the poster size of 0.9 m in its width and 1.2 m in its height (A0 size) will be suitable. Your poster should be put up with thumbtacks that will be provided by the conference secretariat.

The schedule of the Poster session is as follows;
Preparation should be at 09:00 - 13:00, Wednesday, Sep. 7th, and - 09:00, Thursday, Sep. 8th.  
(Please do not any preparation during MVP Session 1, at 13:00 - 17:40, Wednesday, Sep. 7th.)
Your presentation should be at 09:00 - 11:45, Thursday, Sep. 8th.
Removal should be at 17:40 -, Thursday, Sep. 8th  
(Please do not any removal during MVP Session 2, at 13:00 - 17:40, Thursday, Sep. 8th.)
All the presentation materials remained at 09:00, Friday, Sep. 9th will be removed and disposed by the conference secretariat.

**MVP sessions:** "MVP" session is an abbreviation of "Mutual Visiting type Poster" session. This session aims to encourage and improve the presentation and discussion abilities of attendees, and give a chance to discuss other poster presentations.

In the MVP session, attendees are required to present their poster not only to the attendees who do not present in the MVP session but also to the other presenters of the MVP session. All the attendees of the MVP session, that is all the presenters of the MVP session have rights of voting the good presentation, definite replay in discussion, and beautiful poster. The excellent presenter(s) will be awarded in the banquet.

At the beginning of the MVP session, the program committee will explain how to execute the MVP session and distribute the rating list. After that, attendees of the MVP session will explain their poster to the other attendees. The presentation time will be around 5 minutes excluding discussion. The discussion time will be 5 minutes following to the explanation. During presentation and discussion, other attendees may mark the presentation, replay and understandability of poster. The rating list will be withdrawn after the MVP session and be made up. The excellent presenter(s) will be awarded in the conference banquet.
In the MVP session, you are provided a poster board, which are completely the same as those in Poster session mentioned above.

The size of your poster board is a height of approx. 1.8m and a width of 0.9 m. Thus, the poster size of 0.9 m in its width and 1.2 m in its height (A0 size) will be suitable. Your poster should be put up with thumbtacks that will be provided by the conference secretariat.

The schedule of the preparation and removal of the MVP session is as follows;
MVP1:
Preparation should be at 09:00 - 13:00, Wednesday, Sep. 7th.
Presentation should be at 13:00 - 17:40, Wednesday, Sep. 7th.
Removal should be 17:40 - , Wednesday, Sep. 7th.
MVP2:
Preparation should be at - 13:00, Thursday, Sep. 8th.
Presentation should be at 13:00 - 17:40, Thursday, Sep. 8th.
Removal should be 17:40 - , Thursday, Sep. 8th.
All the presentation materials remained at 09:00, Friday, Sep. 9th will be removed and disposed by the conference secretariat.

The flow of the MVP session is as follows;
1. The flow of the MVP session is explained.
2. Presenters of the MVP session will be grouped into several groups. One group has 6 to 7 presenters.
Note: the grouping has finished and your group number is shown on the program on the conference web site.
At the opening of the MVP session, the grouping will be confirmed.
A group consists of the young researchers in as the similar field as possible.
3. All the presenter break into small groups confirmed, then you are required to give your poster presentation to the other member in your group. The presentation duration should be 5 minutes at most. After the presentation, the time is open for discussion. The other member in your group will give you some question, so please answer the question appropriately.
4. After your presentation, the other member in your group will give his/her poster presentation. The presenter will change in turn.
Note: During the presentation and discussion, the other attendees may mark the presentation, replay and understandability of hit/her poster. The rating list will be withdrawn after the MVP session and be made up. The excellent presenter(s) will be awarded in closing ceremony of the conference.
5. The rating list will be collected by the Coordinator of the group.
6. Then, the coordinator will take his group to the SS session (Exhibition by companies).
The presenter of the SS session will explain latest topics in their research and development.
Some companies are planning to show you the actual measuring systems and some experimental specimen.

As mentioned above, the presenter should give his/her presentation to about 6 or 7 researchers in the same time, although the presenter should give his/her presentation to only 1 or 2 researchers.
Here, please note that a coordinator will chair your group. The coordinator is basically Japanese University professors and Japanese company researchers. The aim of the coordinator plays roles of a time keeper, activation of the discussion, etc. like a session chair in an oral session. Thus, if you have any question about the MVP session on site, please ask to your coordinator.

Your poster can present on the normal poster session.

**Oral sessions:** Oral presentations must be concise and to the point. The length of your oral presentation must be less than 20 minutes, including discussion and change of presentation. If you are nominated in an in-session invited talk, the presentation must be less than 25 minutes including discussion and change of presentation.

In order to make a oral presentation, your presentation material should be prepared in Microsoft PowerPoint 2000 or Adobe PDF. You are required to transfer your presentation material to the computer set at the presentation room, until the day before your presentation. In the transfer, you can check your presentation.

If you do not want to submit your presentation material on ahead of your session and you want to give your presentation with your computer, please consult to the presentation submission desk. In that case, you may require some more minutes to change the computer, so the effective presentation time would be shorter.
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<tr>
<td>9:00-9:15</td>
<td>Opening address (Hall #1)</td>
<td>Opening address (Hall #1)</td>
<td>Oral A (Hall #1)</td>
<td>Oral FA (Hall #1)</td>
<td>Oral GA (Hall #1)</td>
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<td>M. Nagao (T.U.T.)</td>
<td>M. Nagao (T.U.T.)</td>
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<td>Oral FB (Hall #2)</td>
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<td>9:15-10:15</td>
<td>Inuishi Memorial (Hall #1)</td>
<td>Oral C (Hall #1)</td>
<td>Posters</td>
<td>Conduction and Breakdown</td>
<td>Partial Discharge 2</td>
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<td>M. Zahn (MIT)</td>
<td>Space Charge</td>
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<td>10:15-10:30</td>
<td>Break</td>
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<tr>
<td>11:30-13:00</td>
<td>Lunch</td>
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<td>Closing (Hall #1)</td>
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<tr>
<td>Registration Cafe: Hamac de Paradis (14:00-18:00)</td>
<td>Oral A (Hall #1)</td>
<td>Oral D (Hall #1)</td>
<td>MVP Session 1</td>
<td>MVP Session 2</td>
<td>Technical Tour</td>
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<tr>
<td>15:10-15:30</td>
<td>Break</td>
<td>Break</td>
<td>and SS Session</td>
<td>and SS Session</td>
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<tr>
<td>15:30-17:40</td>
<td>Oral B (Hall #1)</td>
<td>Oral E (Hall #2)</td>
<td>MVP Session 1</td>
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<td>Technical Tour</td>
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<tr>
<td></td>
<td>Dielectrics and Functional Materials</td>
<td>Surface Discharge / Power Equipment</td>
<td>and SS Session</td>
<td>and SS Session</td>
<td>Technical Tour</td>
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<tr>
<td>Welcome Party Cafe: Hamac de Paradis (18:00-20:00)</td>
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<td>MVP Session 2</td>
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<td>and SS Session</td>
<td>Technical Tour</td>
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<td>18:30-20:30</td>
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<td>Kyoto Heian Hotel</td>
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