Schedule

		09:00 - 12:00	12:00 - 13:20	13:20 - 15:20	15:20 - 15:40	15:40 - 17:40	18:00 - 20:00
6 Sep (Mon)	Grand Lecture Room						
	Room A			Tutorial in English GIS Course (13:00-15:30)		Tutorial in English Transformer Course (15:50-18:20)	
	Room B			Tutorial in English Rotating Machine Course (13:00-15:30)		Tutorial in English Cable Course (15:50-18:20)	
	Room C			Tutorial in Japanese Cable Course (13:00-14:10) Transformer Course (14:20-15:30)	Break	Tutorial in Japanese GIS Course (15:50-17:00) Rotating Machine Course (17:10-18:20)	
	Lobby (3rd&4th Floors)						
	Techno Plaza						
	Registration			Registration(12:00 -)		Registration	
	Others						Welcome party (18:30～)
7 Sep (Tue)	Grand Lecture Room	Opening / Plenary session	Lunch & Break		Break		
	Room A			Oral A-1 (Transformer-1)		Oral A-2 (Transformer-1)	
	Room B			Oral B-1 (Cable-1)		Oral B-2 (Cable-2)	
	Room C			Oral C-1 (Switchgears-1)		Oral C-2 (Switchgears-2)	
	Lobby (3rd&4th Floors)	Preparation for P-1		Preparation for P-1		Preparation for P-1	Poster P-1
	Techno Plaza	Exhibition		Exhibition		Exhibition	
	Registration	Registration		Registration		Registration	
	Others						
8 Sep (Wed)	Grand Lecture Room		Lunch & Break		Break		
	Room A	Oral A-3 (Transformer-2)		Oral A-4 (Transformer-2)		Oral A-5 (Transformer-3)	
	Room B	Oral B-3 (Cable-3)		Oral B-4 (Rotating machines-1)		Oral B-5 (Rotating machines-2)	
	Room C	Oral C-3 (Insulating materials)		Oral C-4 (Outdoor insulation)		Oral C-5 (Switchgears-3)	
	Lobby (3rd&4th Floors)	Preparation for P-2		Preparation for P-2		Preparation for P-2	Poster P-2
	Techno Plaza	Exhibition		Exhibition		Exhibition	
	Registration	Registration		Registration		Registration	
	Others	Short Tour (1st Group)		Short Tour (2nd Group)			
9 Sep (Thu)	Grand Lecture Room		Lunch & Break (Extended Adcom)				
	Room A	Oral A-6 (Transformer-4)					
	Room B	Oral B-6 (Cable-4)					
	Room C	Oral C-6 (PD diagnostic methods)					
	Lobby (3rd&4th Floors)						
	Techno Plaza	Exhibition					
	Registration	Registration		Registration		Registration	Registration (at Banquet)
	Others			Technical tour			Banquet
10 Sep (Fri)	Grand Lecture Room		Lunch & Break		Break	Closing	
	Room A	Oral A-7 (Transformer-5)		Oral A-8 (Transformer-5)			
	Room B	Oral B-7 (Optical sensor)		Oral B-8 (Optical sensor)			
	Room C	Oral C-7 (New developments in asset management)		Oral C-8 (Overhead transmission lines)			
	Lobby (3rd&4th Floors)						
	Techno Plaza						
	Registration	Registration		Registration			
	Others						
11 Sep (Sat)	Others	Excursion					

Opening Ceremony & Plenary Lectures
Tuesday September 7, 9:00-12:00
Venue: Grand Lecture Room

Plenary talks

1 Condition Monitoring and Diagnosis for Reliable Power Transmission and Distribution
Prof. Ernst Gockenbach (University of Hanover)

2 Smart Grid Technology and Asset Management Techniques for its Key Components
Mr. Mark F. McGranaghan (EPRI, USA)

3 Condition Monitoring and Diagnosis for Aged Power Apparatus in Japan
Mr. Hiroshi Yamaguchi (TEPCO, Japan)

Memorial lecture

4 Memorial Lecture honoring Prof. K. B. Cho
- Recent Activity of CMD in Korea and the Contribution of Prof. K. B. Cho -
Prof. Dae-Hee Park (Wonkwang University, Korea)

Oral Session A1
Transformers-1 General
Chair:
Tuesday September 7, 13:20-15:20
Venue: Room A (301)

A1-1 Off-line And On-line Dielectric Response Measurements for Diagnostics of Paper-oil Insulation
Stanislaw Michal Gubanski (Chalmers University of Technology, Sweden), Tord Bengtsson (Abb Corporate Research, Sweden), Joergen Blennow, Bjoern Sonerud (Chalmers University of Technology, Sweden)

A1-2 Study on The Propagation of Partial Discharge Signals in Transformer Winding
Santosh Kumar Annadurai, Jayarambhai Jashavant Patel (Crompton Greaves Ltd), Udayakumar Kodhandaraman (Anna University)

A1-3 Effective Fault Diagnosis of The Actual Operating Transformer By Fra
Takahiro Sano, Yoshiharu Ogawa (Japan Ae Power Systems Corporation), Takaaki Shimonosono, Tadayuki Wada (Chubu Electric Power Co., Inc.)

A1-4 The New Diagnosis Methods for Oil-immersed Transformers With Dissolved Gas Analysis in Japan
Hitoshi Okubo (Nagoya Univ. & Pres. of Etra Special Committee), Yaoji Ichikawa, Katsuyuki Fukui, Takuya Terasaki (Chubu Electric Power Co.), Susumu Isaka (Toshiba Co.), Sadao Naito (Mitsubishi Electric Co.)

A1-5 A New Method of Winding Clamping Force Measurement for Power Transformers
Oleg Kouzmine, Peter Werle (Abb, Power Transformers)

A1-6 Application of Vibration Frequency Response Analysis Method To Detect The Winding Deformation of Power Transformer
Jin Zhijian, Wang Fenghua, Xu Jian, Li Yue (Shanghai Jiaotong University)

Oral Session A2
Transformers-1 General
Chair:
Tuesday September 7, 15:40-18:00
Venue: Room A (301)

A2-1 Current Situation of Condition Monitoring And Smart Grid in China
Dong Ming (Xi'an Jiaotong University)

A2-2 Thermal Aging And High-temperature Characteristics of Insulation Paper in Mineral Oil Under Overloaded Transformer Operations
Katsunori Miyagi, Hideyuki Miyahara, Etsuo Oe (Japan Ae Power Systems Corporation), Naoki Yamagata (Chubu Electric Power Co., Inc.)

A2-3 Life Management of The Large Power Transformers
Xiang Zhang, Ernst Gockenbach (Institute of Electric Power Systems (schering-institute) Leibniz Universit), Haibo Chen, Zhaolin Liu, Linghui Yang, Hua Huang, Chenzhao Fu (East China Electric Power Test And Research Institute Co. Ltd.)

A2-4 Experimental Comparative Study of Paper Degradation in Vegetable Oil And Synthetic Ester Insulating Liquids, Versus in Mineral Oil
Maria Augusta Martins (Labelec, Edp), Ana Gomes (Laelec, Edp), Dr Bruce Pahlavanpour (Nynas Petroleum)

A2-5 Degradation Properties of Low-viscosity Silicone Liquid/paper Insulation Systems
Hisashi Morooka, Hiroyuki Kagawa (Hitachi, Ltd.), Akira Yamagishi, Hideyuki Miyahara, Hiroyuki Sampei, Yukiyasu Shirasaka (Japan Ae Power Systems Corporation)

A2-6 Determination of Health Index for Aging Transformers in View of Substation Asset Optimization.
Brian Sparling, Jacques Aubin (Ge Energy)

A2-7 Diagnosis for Aging Degradation of Insulating Paper in Power Transformers By Measuring The Refractive Index of Cellulose Fibers
Masanobu Yoshida (Chubu Electric Power Co., Inc.), Yoshinori Konishi, Masami Nagatomo (Yuka Industries Co., Ltd.)

Oral Session A3
Transformers-2 FRA & On-line Monitoring/Diagnosis
Chair:
Wednesday September 8, 9:00-12:00
Venue: Room A (301)

A3-1 Properties of Partial Discharges in Liquid Insulating Material And Computer Simulation
Suwarno Harjo (Bandung Institute of Technology)

A3-2 Comparison of Partial Discharge Patterns Between Mineral And Bio-degradable Oil Insulation Systems
Wei Yan, Toan Phung, Herman Halomoan Sinaga, Trevor Blackburn (University of New South Wales)

A3-3 Detection of Similarity for Correlation in Partial Discharge Signals Using Wavelet Analysis
Satoshi Matsumoto, Nobuaki Nishimura, Nobutaka Inaba, Ryuichi Ogura (Shibaura Institute of Technology)

A3-4 Simulation on Estimating Near Field Doa of Em Waves Emitted From Partial Discharge

Sourcein Multipath-rich Environment By Using Focusing Technique
Ye Tian, Masatake Kawada (The University of Tokushima)

A3-5 Influence of PD Location in Transformer Windings on Iec60270- And Uhf-measurements
Anilkumar B. Bhatia, Sebastian Coenen, Stefan Tenbohlen (Universit), Sacha Markalous (Doble Lemke Gmbh)

A3-6 Dielectric Response Analysis And PD Testing for Condition Assessment of HV Bushings
Michael Krueger, Maik Koch (Omicron Electronics, Austria), Gunther Kopp (Abb Micafil, Switzerland), Michael Muhr (Technical University of Graz, Austria)

A3-7 Measurement And Φ-q-n Analysis of Partial Discharge By A Capacitive Probe in A Dry-type Transformer
Kwang-seok Jung, Dae-won Park, Un-yong Jang, Dong-hoan Seo, Gyung-suk Kil (Korea Maritime University)

A3-8 Understanding The Partial Discharge Activity of A Conducting Particle of Different Shapes in Liquid Nitrogen Under Ac Voltages Adopting Uhf Technique
Giridhar A. V. (Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai 600 036, India), Sarathi R (Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai 600 036, India), Sethupathi K (Low Temperature Physics Lab., Dept. of Physics, Iit Madras, Chennai 600 036, India)

Oral Session A4
Transformers-2 FRA & On-line Monitoring/Diagnosis
Chair:
Wednesday September 8, 13:20-15:20
Venue: Room A (301)

A4-1 Detection And Diagnosis By Radiated Electro-magnetic Waves From Partial Discharge And Electrical Tree Development in Epoxy Resin
Hideki Ueno, Takashi Nagamachi, Masaki Nakamura, Hiroshi Nakayama (University of Hyogo), Yasuhito Hashiba (The Kansai Electric Power Co. Inc.)

A4-2 A Study of Dielectric Characteristics of Transformer Oil
Choomphon Thongphudsee, Supakit Chotigo, Boonnua Pungsiri (King Mongkut's University of Technology Thonburi)

A4-3 Comparison of Uhf Signal Recognition of Partial Discharges Detected By Fractal Antennas
Degui Yao (Henan Electric Power Research Institute), Tianyan Jiang, Jian Li, Lin Du (Chongqing University)

A4-4 Propagation Properties of Electromagnetic Waves Emitted By Partial Discharge in Oil for Model Transformer Tank With A Practical Coil
Masahiro Kozako, Akinori Morita, Shinya Ohtsuka, Masayuki Hikita (Kyushu Institute of Technology), Shin Yamada, Yasuhiko Taniguchi (Toshiba Corporation)

A4-5 Recognition of Single And Multiple Partial Discharge Sources in Transformer Insulation
Herman Halomoan Sinaga, Toan B Phung, Trevor R Blackburn (School of Electrical Engineering And Telecommunications, The University of New South Wales)

A4-6 Dissolved Gas Analysis of Transformer Oil Under The Conditions of Partial Discharge And Overheating
Yutaro Abe, Masahiro Kozako, Hiroaki Toda, Motoo Tsuchie, Masayuki Hikita (Kyushu Institute of Technology), Ei Sasaki (Kitashiba Electric Co.,ltd.)

Oral Session A5
Transformers-3 Chemical and Physical Analysis (DGA, full-fral, etc.)
Chair:
Wednesday September 8, 15:40-17:40
Venue: Room A (301)

A5-1 Criteria of Fault Type Identification in Bushings Based on Dga
Irina Davidenko (Ural National Technical University)

A5-2 The Diagnosis Methods in Silicone Liquid Immersed Transformers By Dissolved Gas Analysis
Miyahara Hideyuki, Akira Yamagishi, Hiroyuki Sampei, Yukiyasu Shirasaka (Japan Ae Power Systems Corporation), Hisashi Morooka (Hitachi, Ltd.)

A5-3 An Advanced Technique To Diagnose Internal Faulty Parts of The Oil-filled Transformers Based on The Condensing Analysis for Trace Components Decompose From Insulating Materials
Yasuhiko Hanamaki, Noboru Takao, Hiroyuki Nakajima, Atsushi Eto (Tokyo Electric Power Company)

A5-4 A Novel Approach To Identify Transformer Criticality Using Dissolved Gas Analysis
Ahmed Abu Siada (Curtin University of Technology)

A5-5 Application of Fuzzy Logic To Interpret Dga (dissolved Gas Analysis) Result
Harry Gumilang (Pt. Pln (persero) P3b Jawa Bali Rjkb)

A5-6 Fire Extinction System for Transformer Using Fire Retarded Insulation Fluid
Osami Sugawa (Tokyo Science University of Science, Suwa), Kyoko Kamiya (Yokohama National University), Tomohiko Imamura (Science University of Science, Suwa), Akira Yamagishi, Hideyuki Miyahara (Japan Ae Power Systems Corporation)

Oral Session A6
Transformers-4 Failure Phenomena and Aging Mechanisms & Field Experience
Chair:
Thursday September 9, 9:00-12:00
Venue: Room A (301)

A6-1 The Diagnosis of Power Transformer Failures By Fuzzy Random Based Rough Sets Analysis
Junzo Watada, Shamshul Bahar Yaakob (Waseda University), Tsuguhiro Takahashi, Tatsuki Okamoto (Central Research Institute of Electric Power Industry)

A6-2 Evolved Gas From Insulating Oil at Low Temperature Heating
Kiwamu Miyajima (Ieej), Takahiro Sawatsu

A6-3 The Effect of Floating Object To Breakdown Voltage of Negative Impulse Voltage 1.2/50 µs
Phak Bunfueng, Supakit Chotigo, Boonnua Pungsiri (King Mongkut's University of Technology Thonburi)

A6-4 Significance of Cellulose Aging in Power Transformer Condition Assessment
Muhammad Arshad (Bc Hydro, Canada), Syed Islam (Curtin University of Technology, Perth), Abdul Khaliq (Advanced Studies In Engineering, Pakistan)

A6-5 The Influence of Corrosive Sulfur on The Oil-cellulose Paper Insulation Used in HV Transformers
Shuangzan Ren, Lisheng Zhong, Qinxue Yu, Xiaolong Cao (Xi'an Jiaotong University, Xi'an, 710049, China), Hanai

Masahiro, Yamada Shin (Toshiba Corporation, Kawasaki 210-0862, Japan)

A6-6 Interpretation of Dynamic Resistance Results of On-load Tap Changers
Jur Erbrink, Edward Gulski, Johan Smit (Delft University of Technology, The Netherlands), Rory Leich (Liandon, The Netherlands), Paul Seitz, Ben Quak (Seitz Instruments Ag, Switzerland)

A6-7 Investigation on Arcing Indication of 60 Mva Power Transformer
Dian Septi Rahmani (Mrs), Andreas Putro Purnomoadi, Hendrik Maryono (Mr)

A6-8 Life Extension of Power Transformer Using Moisture And Degree of Polymerization As Diagnostic Parameters Mr. K.baburao*, Mr. B.d. Malpure & Mr. A.venkatasami *global R&d Centre, Crompton Greaves Limited, Mumbai ? 400 042, India.
Baburao Keshawatkar, Bhaskar Dattatrey Malpure, Venkatasami Athikkan (Crompton Greaves Limited)

Oral Session A7
Transformers-5 Partial Discharge (UHF, AE, antenna, etc.)
Chair:
TFriday September 10, 9:00-12:00
Venue: Room A (301)

A7-1 Measurement Considerations When Using Frequency Response Methods for Condition Assessment of Power Transformers
Matz Ohlen, Peter Werelius (Megger Sweden Ab)

A7-2 Investigation of Transformer Impedance at Transformer Limited Fault Condition By Using Fra Monitoring Technique
Myo Min Thein, Hiroaki Toda, Katsuhiko Harada, Shinya Ohtsuka, Masuyuki Hikita (Kyushu Institute of Technology), Hisatoshi Ikeda (The University of Tokyo), Eiichi Haginomori (Chuo University), Tadashi Koshiduka (Toshiba Corporation)

A7-3 Transformer Modeling Based on Frequency Response Measurement for Winding Failure Detection
Maximilian Heindl, Stefan Tenbohlen (University of Stuttgart), Juan Vel, Alexander Kraetge (Omicron Electronics Gmbh), Ren Wimmer (Siemens Ag)

A7-4 Direct Monitoring of Clamping Forces in Power Transformers-an Overview And Recent Developments
Andrei Marinescu (Icmet)

A7-5 A Review on The Monitoring Methods for Condition Based Maintenance of on Load Tap Changer
Arunachalam Narayanaperumal (Global R&d, Condition Monitoring And Diagnostics Research Centre)

A7-6 Thermography As A Complementary Diagnostics Tool for Locating Fault in A Power Transformers
Anthony Marcel Lobo (Crompton Greaves Ltd), Sumeet Gupta (Pci Ltd), Bhaskar Malpure (Crompton Greaves Ltd)

A7-7 Solutions for Life Management And Maintenance Optimization for Large Power Transformers
Constantin Moldoveanu (Sc Nova Industrial Sa Romania), Stelian Gal (Cntee Transelectrica Sa Romania), Traian Fagarasan (Sc Smart Sa Romania), Victor Ursianu, Virgil Brezoianu, Aurelian Vasile (Sc Nova Industrial Sa Romania), Ciprian Diaconu, Valentin Zaharescu (Cntee Transelectrica Sa Romania), Marius Oltean, Gheorghe Moraru (Sc Smart Sa Romania)

A7-8 Enhanced Methods of High Voltage Testing of Power Transformers on Site
Peter Werle, Janusz Szczechowski (Abb)

Oral Session A8
Transformers-5 Partial Discharge (UHF, AE, antenna, etc.)
Chair:
Friday September 10, 13:20-15:20
Venue: Room A (301)

A8-1 Multi Channel On-line Monitoring System for Power Transformers
Ernst Gockenbach, Hossein Borsi (Leibniz Universit)

A8-2 Control And Supervisory System for The Life Management of On-load Tap-changers
Karsten Viereck, Dieter Dohnal (Maschinenfabrik Reinhausen)

A8-3 Monitoring The Oven Drying Process of Power Transformers By Dielectric Response Analysis
Maik Koch, Stephanie Raetzke (Omicron Electronics, Austria), Stefan Tenbohlen (University of Stuttgart, Germany), Peter Werle (Abb Power Transformers, Germany)

A8-4 Localisation of PD Sources Inside Transformers
By Acoustic Sensor Array And Uhf Measurements
Sebastian Coenen, Stefan Tenbohlen (Universit), Sacha Markalous (Doble Lemke Gmbh)

A8-5 Condition Monitoring in New Zealand Power Transformers
Sujeewa Nilendra Hettiwatte (Manukau Institute of Technology, Auckland, New Zealand), Hasitha Anandin Fonseka (Transpower New Zealand Ltd, Auckland, New Zealand)

A8-6 Power Transformers Health Assessment With Fuzzy Logic Reasoning Due To Uncertainty in Test Data
Muhammad Arshad (Bc Hydro, Canada), Syed Islam (Curtin University of Technology, Perth)

Oral Session B1
Cable-1 PD Measurement Technique
Chair:
Tuesday September 7, 13:20-15:00
Venue: Room B (302)

B1-1 Partial Discharge Measurements And Calibration: Limits And Perspectives for Power Cables
Gian Carlo Montanari (University of Bologna), Marco Tozzi (Techimp Systems S.r.l.), Andrea Cavallini (University of Bologna)

B1-2 Development of PD Location System of Power Cable Incorporating PD Charge Distribution Measurement By Utilizing Gps And Atomic Clock
Tomohiko Katayama, Masahiro Kozako, Masayuki Hikita (Kyushu Institute of Technology), Kazutoshi Abe, Hiroshi Suzuki (J-power Systems Corp.)

B1-3 Analysis of Partial Discharge in HV Power Cables Consisting Cross-bonding Joints
Buyung Sofiarto Munir (Pt Pln (persero) Research And Development), Edward Gulski, Johan J. Smit (Delft University of Technology)

B1-4 Ac Voltage Test And Partial Discharge Measurement After Installation of XPLE Cable Lines
Jiro Kawai, Hirotaka Togashi, Iwao Ootaka, Mikio Makino (Exsym Corporation)

B1-5 A Comparison of Noise Reduction Techniques for Online Monitoring of Partial Discharge in High Voltage Power Cables
Raji Ambikairajah, B. Toan Phung, Jayashri Ravishankar, Trevor R. Blackburn (University of New South Wales)

Oral Session B2
Cable-2 Degradation
Chair:
Tuesday September 7, 15:40-17:20
Venue: Room B (302)

B2-1 Application of Dielectric Loss Measurements for Life Consumption And Future Life Estimation Modeling of Oil-impregnated Paper Insulation in HV Power Cables
Piotr Cichecki, Lukasz Chmura, Edward Gulski, Johan Smit (Delft University of Technology)

B2-2 Development of 66kV Class XPLE Cables Deterioration Diagnosis Technology
Mitsuhiro Watabe, Masahiko Nakade (Tokyo Electric Power Company), Shu Sugimoto, Yoshinori Fujimura, Shigeki Nagahara (Tokyo Densetsu Service Corporation)

B2-3 Remained Voltage Withstand Level And Effect of Water Tree Degradation of Removed XPLE Transmission Cables With Long-term Operation
Toshihiro Takahashi, Tsuguhiro Takahashi, Takashi Kuraishi, Tatsuki Okamoto (Criepi), Sachika Tanaka, Yuuji Matsuya, Takayuki Doi (The Kansai Electric Power Co., Inc.)

B2-4 The Influence of Accelerated Water Treeing Test on The Properties of Cross-linked Polyethylene Cable Insulating Materials
Xuetong Zhao, Jianying Li, Zhangbin Zhou, Shengtao Li (State Key Laboratory of Electrical Insulation And Power Equipment, Xi'an Jiaotong University), Jiankang Zhao, Benhong Ouyang (State Grid Electric Power Research Institute)

B2-5 Observation of Water Trees Using Terahertz Imaging And Time-domain Spectroscopy
Ryo Sato, Norikazu Fuse (Waseda University), Yoshinobu Nakamichi, Gaku Morita, Takeshi Konishi (Railway Technical Research Institute), Maya Mizuno, Kaori Fukunaga (National Institute of Information And Communication Technology), Ohki Yoshimichi (Waseda University)

Oral Session B3
Cable-3 Radiation Environment
Chair:
Wednesday September 8, 9:00-12:00
Venue: Room B (302)

B3-1 Degradation Mechanisms of Cable Insulation Materials By Radiation And Thermal Ageing
Tadao Seguchi, Akihiko Shimada, Akira Idesaki, Kiyotoshi Tamura, Takeshi Ohshima (Jaea), Hisaaki Kudoh (University of Tokyo)

B3-2 Evaluation of Oxidation Due To Radiation-thermal Deterioration of Cross-linked Polyethylene By Microscopic Ft-ir
Takashi Kurihara, Toshihiro Takahashi, Hiroya Homma, Tatsuki Okamoto (Central Research Institute of Electric Power Industry)

B3-3 Effects of Gamma-ray Irradiation And Thermal Aging on The Chemiluminescence in Flame-retardant Ethylene-propylene Rubber
Naoshi Hirai, Yoshimichi Ohki (Waseda University)

B3-4 Radiation Or Thermal Accelerated Ageing And Condition Monitoring of Cables
Hisaaki Kudo (University of Tokyo), Akihiko Shimada, Akira Idesaki, Takeshi Ohshima, Kiyotoshi Tamura, Tadao Seguchi (Japan Atomic Energy Agency)

B3-5 Broadband Impedance Spectroscopy As A Tool To Evaluate The Integrity of Cable Insulation
Yoshimichi Ohki, Naoshi Hirai (Waseda University)

B3-6 Advanced Method for Cable Environmental Qualification Test
Toshio Yamamoto, Takefumi Minakawa (Japan Nuclear Energy Safety Organization)

B3-7 Accelerated Aging Sequence for Cable Environmental Qualification Test
Takefumi Minakawa, Toshio Yamamoto (Japan Nuclear Energy Safety Organization)

B3-8 Structural Evaluation of Low-voltage Cable Insulators With Low Dose Rate Gamma Ray Irradiation Accelerated Ageing Tests
Yukiko Furuhashi (R&d Center, Tokyo Electric Power Company), Yousuke Ibusuki, Teruhisa Tatsuoka, Kenrou Takamori, Hideshi Tezuka (Center, Tokyo Electric Power Company), Atsushi Hashimoto (Nuclear Asset Management Dept., Tokyo Electric Power Company)

Oral Session B4
Rotating Machines-1 Insulation Diagnosis
Chair:
Wednesday September 8, 13:20-15:00
Venue: Room B (302)

B4-1 Integrated Diagnostic System for Condition-based Maintenance of Generators
Mario Belec, Claude Hudon (Ireq - Hydro-quebec), Duc Ngoc Nguyen (Hydro-quebec)

B4-2 Development of On-line Partial Discharge Monitoring System for Insulation Diagnosis of Turbine Generator Stator Windings
Don-ha Hwang, Young-woo Youn, Jong-ho Sun, Dong-sik Kang (Korea Electrotechnology Research Institute (keri)), Chan Nam-gung (Korea East-west Power Co., Ltd)

B4-3 Effect of On-line PD Monitoring System for The Hydrogenerator Stator Winding
Bong-keun Oh (K-water), Kee-joe Kang Lim (Dong-sik)

B4-4 Propagation of Partial Discharge Pulse in Stator Winding of Water Turbine Generator
Satoru Miyazaki, Toshihiro Takahashi, Hisashi Goshima, Tatsuki Okamoto (Central Research Institute of Electric Power Indsutry), Yoshiichiro Hayashi (Electric Power Development Co.,ltd)

B4-5 Partial Discharge Inception on Random Wire Wound Stator Insulation: Influence of The Temperature And of The Voltage Gradient
Francesco Guastavino, Andrea Dardano, Alessandro Ratto, Eugenia Torello (University of Genova - Electrical Engineering Department), Guido Fulvio Massa (Ansaldo Sistemi Industriali S.p.a - Genova - Italy), Maurizio Russo (Electroadda S.r.l. - Beverate Di Brivio (lc) - Italy)

Oral Session B5
Rorating Machines-2 Partial Discharge Diagnosis
Chair:
Wednesday September 8, 15:40-17:20
Venue: Room B (302)

B5-1 Continuous PD Monitoring of Stator Insulation

Wojciech Koltunowicz, Alija Obralic, Alexander Belkov, Ronald Plath (Omicron Electronics Gmbh)

B5-2 Partial Discharge Diagnosis of Stator Insulation Using Damped Ac Voltages
Edward Gulski, Corne Van Eeden, Johan J Smit, Ben Quak, Frank De Vries (Delft University of Technology)

B5-3 Online And Offline Diagnostics As A Successful Interaction for Cbm on Turbo-generators
Guido Schmidt, Dagmar Thien, Frank Ewert, Martin Biesemann, Peter Gradinarov (Siemens Ag, Muelheim An Der Ruhr)

B5-4 Study of Evaluation Method of Partial Discharge Data for Ganetaor Stator Windings in Hydro Power Plant
Masatoshi Kitagawa, Osamu Hattori (The Kansai Electric Power Co., Inc.)

B5-5 Integrated Insulation Condition Monitoring of Generators And Transformers
Bernhard Fruth, Herbert Looser (Qualitrol), Matthias Humer (Eon Anlagenservice Gmbh)

Oral Session B6
Cable-4 Diagnostics
Chair:
Thursday September 9, 9:00-11:20
Venue: Room B (302)

B6-1 Partial Discharge Monitoring And Diagnosis at Power Cables
Sacha Michel Markalous, Matthias Boltze, Eberhard Lemke (Doble Lemke Gmbh)

B6-2 Optimal On-site Partial Discharge Measurements for Assessing Condition of Medium Voltage Power Cables
Elpis Juspesra Sinambela (Pt Pln (persero)), Edward Gulski, Piotr Cichecki (Delft University of Technology)

B6-3 The Effectiveness of Pd-ol, An On-line PD Monitoring System With PD Location for Long Mv Underground Power Cables
Fred Steennis (Kema And Tu/e), Peter Van Der Wielen (Kema)

B6-4 Benefits of A Combined Diagnostic Method, Using Vlf Partial Discharge And Dissipation Factor Measurement on Medium Voltage Distribution Cables.
Christian Goy (Vattenfall Europe Berlin Netservice Gmbh (germany)), Martin Baur (Baur Pruef- Und Messtechnik Gmbh)

B6-5 Application of The Innovative Residual-charge Method To 22/33kV XPLE Cable in Line
Hiroyuki Kon (Viscas Corp.), Hideaki Sato, Koichi Onuki (Tokyo Electric Power Co.)

B6-6 Development of External Diagnosis for Terminals in XPLE Cables (part Ii)
Yukinobu Morishita, Takaharu Kohama (Chubu Electric Power Co.,inc.), Masato Watanabe, Tadanori Nagayama (Tohoku Electric Power Co.,inc.), Kazutoshi Abe, Hioshi Suzuki (J-power Systems Corp.)

Oral Session B7
Optical Sensor
Chair:
Friday September 10, 9:00-12:00
Venue: Room B (302)

B7-1 Pockels Non-contact Voltage Sensor And Piezoelectric Vibration Control of Pockels Crystal
Hirokazu Matsumoto, Shigeyasu Matsuoka, Akiko Kumada, Kunihiko Hidaka (The University of Tokyo)

B7-2 Concept of Optical Vt And Ct for GIS
Wei Zhang, Junzo Kida (Japan Ae Power Systems Corporation), Tatsushi Yamaguchi, Daigoro Shiozawa (Toko Electric Corporation)

B7-3 Development of Magneto-optic Probe for The Eddy Current Detection
Sadao Higuchi, Hiroyuki Fukutomi, Masahiro Kurono, Takashi Ogata (Central Research Institute of Electric Power Industry)

B7-4 Study on On-line Monitoring System of Very Small Deterioration Signal Caused By Water Tree in XPLE Cables- Verification of Compensation Method for Load Current Using Model Signals -
Tsuguhiro Takahashi, Tatsuki Okamoto (Criepi)

B7-5 Development of An Optical Fiber Current Sensor With Improved Output Stability Against Disturbances To The Optical Fiber Transmission Line
Reishi Kondo, Kiyoshi Kurosawa (Tokyo Electric Power Company), Eiji Itakura, Takashi Kotake, Yuuki Shiino (Takaoka Electric Mfg. Co., Ltd.)

B7-6 Optical Current Sensor System By Passive Bias Method Using Birefringence of Polarization Maintaining Optical Fiber
Woo-young Lee, Ki-dong Song, Yong-sung Cho (Korea Electrotechnology Research Institute)

B7-7 Testing of Optical Isolator for Long-term Stability of Current Sensing With Orthogonally Polarized Two-frequency Laser
Shunji Tsuji-iio, Yuki Maruyama, Genki Fujii, Hiroaki Tsutsui, Ryuichi Shimada (Tokyo Institute of Technology)

B7-8 Digital Instrument Transformers for Uhv Ac And Dc Networks
Denis Chatrefou, Jim Blake, Mehamed Boucherit (Areva T&d)

Oral Session B8
Optical Sensor
Chair:
Friday September 10, 13:20-15:20
Venue: Room B (302)

B8-1 Interferometric Fiber-optic Electric Current Sensor for Railway Power System
Tatsuya Kumagai, Wataru Ohnuki (Hitachi Cable, Ltd.), Takeshi Endo (Hitachi, Ltd.), Hitoshi Hayashiya (East Japan Railway Company), Kouji Nishida (Eiraku Electric Co., Ltd.)

B8-2 Basic Technique of Optical Cts And Development of Optical Cts for Protection
Tatsushi Yamaguchi, Daigoro Shiozawa (Toko Electric Corporation), Toshiaki Rokunohe (Hitachi, Ltd), Junzo Kida, Wei Zhang (Japan Ae Power Systems Corporation)

B8-3 Condition Monitoring of Series Capacitor Banks Used for Series Compensation at 525kV Substation With Fiber Optic Current Transducer/transformer
Boon Kwee Lee, Sachin Dekate (Ge Global Research), Paul Dakta (Ge Energy), Max Ge Energy Serradimigni (), Guy Lafond, Kerry Evans (Ge Energy)

B8-4 Dc Optical Current Transformer for Hvdc Link
Masao Takahashi, Yukihisa Hirata (Toshiba Corp,), Yoshiyuki Nakamura (Electric Power Development Co., Ltd.)

B8-5 Development of The Fault Detection System Using Optical Fiber Current Sensors With The

Wavelength Division Multiplexing Transmission
Masahiro Kayaki, Toshinari Hirata (Kansai Electric Power Co., Inc.), Kiyoshi Kurosawa, Reishi Kondo (Tokyo Electric Power Co., Inc.), Toshiharu Yamada, Eiji Itakura (Takaoka Electric Mfg. Co., Ltd.)

B8-6 Fault Location System for Power Transmission Lines Applying Optical Fiber Current Sensors
Kazuo Amano (Fujikura Ltd.), Tatsushi Yamaguchi (Toko Electric Corporation), Reishi Kondo (Tokyo Electric Power Co.)

Oral Session C1
Switchgears-1 Diagnosis/Sensors and Sensing Techniques
Chair:
Tuesday September 7, 13:20-15:20
Venue: Room C (303)

C1-1 Evaluation of Alarm Criterias for Partial Discharge Monitoring Systems on GIS
Uwe Schichler, Joerg Gorablenkow (Siemens)

C1-2 A Non-intrusive Diagnostic Approach To Prevent Circuit-breaker Critical Failures
Sebastien Poirier, Ryszard Pater (Hydro-quebec Research Institute (ireq)), Rene Doche (Hydro-quebec Transenergie)

C1-3 Survey And Research on Deterioration of 300 kV GCB
Tatsuo Kobayashi, Toshifumi Sugimoto (Chubu Electric Power Co.,inc), Kozo Matsushita, Hideaki Shirai (Toshiba Corporation)

C1-4 Application of Online PD Monitoring System Using Hf/uhf PD Sensors for GIS And Cable
Min Chen, Koji Urano, Jian Tang, Zhongwei Qui (Se Technology Limited, Hong Kong, China), Atsuhide Jinno (J-power Systems Corp. Japan)

C1-5 Development of Fault Area Detection System for GIS
Bong Hee Lee, Sang Dong Jeon, Ju Heon Lee, Do Won Kim (Korea Electric Power Corporation)

C1-6 Determination of Leakage Rate of GIS-test Systems By Measurement of Pressure And Temperature
Martin Hinow (Highvolt), Matthias Voigt (Technical Universtity Dresden), Ralf Pietsch (Highvolt)

Oral Session C2
Switchgears-2 Partial Discharge (UHF, AE, antenna, etc.)
Chair:
Tuesday September 7, 15:40-18:00
Venue: Room C (303)

C2-1 Influence of Different Diameter Bus Conductor Part of GIS on Propagation Property of Pd-induced Electromagnetic Wave
Masayuki Hikita, Taiki Nakano, Yamamura Yohei, Masayuki Hayashi, Masahiro Kozako, Shinya Ohtsuka (Kyushu Institute of Technology), Toshihiro Hoshino, Shiro Maruyama, Takaaki Sakakibara (Toshiba Corporation)

C2-2 Propagation Mechanisms of PD Pulses for Uhf And Traditional Electrical Measurements
Stefan M Hoek (Omicron Electronics, Aurstria), Maximilian Heindl (Ieh Universitaet Stuttgart), Maik Koch (Omicron Electronics)

C2-3 Improvements of The Uhf Partial Discharge Monitoring Technique
Takashi Ito, Tatsuya Yabe, Mitsuhito Kamei (Mitsubishi Electric Corporation), Shigemitsu Okabe (Tokyo Electric

Power Company), Toru Fukasawa, Hiroaki Miyashita (Mitsubishi Electric Corporation)

C2-4 Severity Diagnosis And Assessment of The Partial Discharge Provoked By Free Moving Metallic Particles on GIS Insulator Surface

Bo Qi, Cheng Rong Li, Zhen Hao, Bi Bo Geng (Beijing Key Laboratory of High Voltage & Emc, North China Electric Power University)

C2-5 Partial Discharge Signal Evaluation of Uhf Technique in Accordance With Current Pulse Waveform Measurement

Masanobu Yoshida (Chubu Electric Power Co., Japan), Keisuke Suzuki, Motoki Asai, Hiroki Kojima, Naoki Hayakawa, Fumihiro Endo, Hitoshi Okubo (Nagoya University, Japan)

C2-6 Sensitivity Characteristics of Various Uhf Sensors Attached Outside A GIS Tank

Shiro Maruyama, Toshihiro Hoshino, Takaaki Sakakibara (Toshiba Corporation), Tomoyuki Mizojiri, Hiroshi Murase (Aichi Institute of Technology)

C2-7 Fundamental Characterisitics of Electromagnetic Wave Propagation in Non-reflection Coaxial Waveguide Output Characteristics of Uhf Sensor in L-shaped Structure

Junichi Wada, Ueta Genyo, Okabe Shigemitsu (Tokyo Electric Power Company)

Oral Session C3
Insulating materials
Chair:
Wednesday September 8, 9:00-12:00
Venue: Room C (303)

C3-1 Influence of Fillers in Ptfe Insulators on The Characteristics of Surface Discharges in Presence of Different Gases And Mixtures

Abderrahmane Beroual, Mamadou Lamine Coulibaly (Ecole Centrale De Lyon - Ampere Lab.), Oana Aitken, Alain Girodet (Areva T&d)

C3-2 Simultaneous Measurement of Space Charge Distribution And Thickness in Dielectric Materials

Masumi Fukuma, Ruji Funo (Matsue College of Technology), Yoshinobu Murakami, Masayuki Nagao (Toyohashi University of Technology), Naohiro Hozumi (Aichi Institute of Technology)

C3-3 Dynamic Behavior of Space Charge in An Aged 110kV XPLE Cable Insulation

Boxue Du, Lin Yang, Hongbo Li (Tianjin University)

C3-4 Space Charge Accumulation And Breakdown of Ldpe With Acetophenone Under High Dc Stress at Various Tempertures

Junichi Yoshida, Kazuki Matsushima, Hiroaki Miyake, Yasuhiro Tanaka, Tatsuo Takada (Tokyo City University)

C3-5 Ldpe Nanocomposites: A Study About Breakdown Strength And Voltage Endurance

Francesco Guastavino, Andrea Dardano, Stefano Squarcia (University of Genova - Electrical Engineering Department), Julio Guzman, Nuria Garcia, Pilar Tiemblo (Instituto De Ciencia Y Tecnologia De Polimeros (csic) - Spain)

C3-6 High Voltage Dielectric Characteristics of Epoxy Nanocomposites in Liquid Nitrogen for Superconducting Transformer

Young-jo Lee (Smdt Lab., Hanyang University), Sang-hwa Lee (Spd&s Lab., Hanyang University), Hae-young Lee (Smdt Lab., Hanyang University), Bang-wook Lee, Ja-yoon Koo (Hanyang University)

C3-7 Simulation of Electrical Tree Propagation in Nanocomposite Polymers: Homocharges, Heterocharges And The Role of Nanoparticles
Despoina Pitsa, Michael Danikas, George Vardakis (Democritus University of Thrace)

C3-8 Investigation on Electrical Trees Growth And Partial Discharge Characteristics in XPLE Cable Insulation at Power Frequency Applied Voltage
Xiangrong Chen (State Key Laboratory of Power Equipment And Electrical Insulation, Xi'an Jiaotong University)

Oral Session C4
Outdoor Insulation
Chair:
Wednesday September 8, 13:20-15:20
Venue: Room C (303)

C4-1 Detection of Defects in Porcelain Insulators in Service
Andreas Dernfalk, Igor Gutman, G Olsson (Stri Ab)

C4-2 Development of A Diagnostic Device for Malfunctions of Distribution Facilities Using Acoustic Emission Testing
Masahito Miyata, Norihiro Kusaka, Nobuhiro Kuroda (Tokyo Electric Power Company)

C4-3 The Effect of Conductive And Normal Rtv on Electric Field Intensity of Porcelain Insulator
Chen Gang (Shenyang University of Technology), Qin Yu, Liu Min, Jia Zhi Dong, Guan Zhi Cheng (Tsinghua University), Yuan Shun (Shenyang University of Technology)

C4-4 Influence of The Relative Humidity on The Dc Potential Distribution of Polymeric Cylindrical Model Insulators
Bernhard Lutz, Josef Kindersberger (Technische Universitaet Muenchen)

C4-5 Evaluation Electerical Performance of Polymeric Insulating Under Artificial Tropical Climate Aging
Salama Manjang Manjang, Muh Muhammad Arief (Hasanuddin University)

C4-6 The Study of Ageing of Silicone Rubber And Epdm Insulation Under Dust With Ozone And Temperature
Apisit Chaisaengsukkul, Norasage Pattanadej (King Mongkut's Institute of TechnologyLadkrabang, Bangkok, Thailand), Vijit Kinnares (King Mongkut's Institute of Technology, LadkrabangBangkok, Thailand)

Oral Session C5
Switchgears-3 Asset Management/Failure Phenomena and Aging/Others
Chair:
Wednesday September 8, 15:40-17:40
Venue: Room C (303)

C5-1 Risk Estimation for H.v. Components in Gas-insulated Substations
Muhannad Al-suhaily (Delft University of Technology), Sander Meijer (Tennet Tso Netherlands), Piotr Cichecki, Johan J. Smit (Delft University of Technology), Peter Sibbald, Jos Kanters (Tennet Tso Netherlands)

C5-2 Circuit Breaker Maintenance Method Optimization
Indera Arifianto, Yokeu Wibisana (Pt.pln (persero) P3b Jawa Bali)

C5-3 Fault Diagnosis of High Voltage Circuit Breaker Based on Vibration And Contact Resistance Measurements

Dubey Parmatma, Waghmare Vishal, A. Venkatasami, D. Srinivas (Crompton Greaves Ltd.)

C5-4 Computation And Measurement of High Frequency Transient Overvlotages in A 245kV GIS During Disconnector Switch Operation
Ramarao Venkata Gangadhara Jonnakuti (Department of Electrical Engineering , B.v.c.engineering College,odalarevu,e.g.dist.,a.p,india), Amarnath Jinka (Department of Electrical Engineering,j.n.t.university,hyderabad,india), Kamakshaiah S (Department of Electrical Engineering,vignan Engineering College,hyderabad,india.)

C5-5 Study on Electrical Characteristics of Zno Micro Particles Used in Air Bushings
Mahmudul Kabir, Masafumi Suzuki, Noboru Yoshimura (Akita University), Kayo Shiozawa, Miyuki Ogishima (Showa Cable Systems Co.,ltd.), Hideyasu Andoh (Toshiba Corp.)

C5-6 Evaluation of Breakdown Characteristics of Co2 Gas for Non-standard Lightning Impulse Waveforms in The Presence of Bias Voltages
Genyo Ueta, Junichi Wada, Shigemitsu Okabe (Tokyo Electric Power Company)

Oral Session C6
PD Diagnostic Methods
Chair:
Thursday September 9, 9:00-12:00
Venue: Room C (303)

C6-1 Effects of Rising Rate of Square Voltage on PD Characteristics in Aging Process
Kai Wu, Cheng Pan, Minggang Gao, Changhao Sun, Yongpeng Meng (State Key Lab of Electrical Insulation And Power Equipment, Xi'an Jiaotong University)

C6-2 An Integral Equation for Analysis of Partial Discharge Characteristics at High Voltage Condition
Tatsuki Okamoto, Takashi Kuraishi, Satoru Miyazaki, Toshihiro Takahashi (Criepi)

C6-3 Basic Study of On-site Insulation Diagnosis of Power Apparatus Using Resonant Power Source
Takashi Kuraishi, Tatsuki Okamoto, Toshihiro Takahashi, Satoru Miyazaki, Hiroshi Suzuki (Central Research Institute of Electric Power Industry)

C6-4 Novel Method for 3-phase Simultaneous Partial Discharge Detection in Power Cables
Jeongtae Kim, Jaecheol Jeong (Daejin University), Jihong Kim (Calvus Instrument), Jayoon Koo (Hanyang University), Sungkwun Oh (University of Suwon)

C6-5 Application of Pattern Recognition Algorithms And Synchronous Multi-channel PD Measurements for Diagnosis of Mica Insulated Generator Windings
Wolfgang Hribernik, Christoph Schiener, Georg Brauner (Ait - Austrian Institute of Technology), Gert Pascoli (Association of Austrian Electricity Companies)

C6-6 Pd Localization in High Voltage Insulation Using The Uhf Technique
Sergey Botov (Dimrus), Valery Rusov (Vibro-center), Natalia Sofyina (Ros), Sergey Zhivodernikov (Electrogridservise)

C6-7 Static Electrification Caused By Deterioration of Insulation Paper in Aged Transformers
Atsushi Eto, Hiroyuki Nakajima, Takayuki Kobayashi (Tokyo Electric Power Company)

C6-8 Partial Discharge Assessment in Online Mv Networks: How To Interpret Results?

Marco Tozzi (Techimp Systems S.r.l.), Andrea Cavallini, Gian Carlo Montanari (University of Bologna)

Oral Session C7
New Developments in Asset Management
Chair:
Friday September 10, 9:00-12:00
Venue: Room C (303)

C7-1 Optimum Strategy of Power System Maintenance And Operation With Intelligent Grid Management System (igms)
Hiroki Kojima, Yotaro Suzuki, Kaio Wakaiki, Naoki Hayakawa, Fumihiro Endo, Masahiro Hanai, Hitoshi Okubo (Nagoya University)

C7-2 The Development of Asset Management Decision Tools for HV Scff Cable Circuits
Edward Gulski (Professor), Kelvin Hoofd Van Huisduijnen (Student), Johan Smit (Professor), Lukasz Chmura (Phd Student), Frank De Vries, Allois Bun (Cto)

C7-3 Results of A Study of Overhead Line Conductors Under Combined Thermal And Mechanical Stress
Stefan Jaufer, Thomas Judendorfer, Stephan Pack, Michael Muhr (Tu Graz, Institute of High Voltage Engineering)

C7-4 The Risk Assess Method of Power Transfromer
Huimin He (North China Electric Power Research Institute Co.ltd), Yangchun Cheng, Chengrong Li (North China Electric Power University)

C7-5 A Novel Inductive Electromagnetic Energy Harvester for Condition Monitoring Sensors
Nina Roscoe, Martin Judd (University of Strathclyde), Leigh Fraser (National Grid)

C7-6 Critical Perspectives on Paper Ageing And Condition Monitoring for Old Power Transformer Populations
Hongzhi Ding, Richard Heywood, John Lapworth, Simon Ryder, Alan Wilson (Doble Powertest Ltd)

C7-7 An Integrated Adaptive Maintenance Concept
Martin Aronsson, Markus Bohlin, Kivanc Doganay, Anders Holst (Swedish Institute of Computer Science), Tommy Kjellqvist, Stefan (Royal Institute of Technology, Sweden)

C7-8 Obtaining Value From On-line Substation Condition Monitoring ? Cigre Wg Considerations
Andr Mercier (Hydro Qu), Arthur J. Mackrell (Ge Infrastructure Energy - T&d , Uk), Nicolaie L. Fantana (Abb Ag Corporate Research, Germany)

Oral Session C8
Overhead Transmission Lines
Chair:
Friday September 10, 13:20-15:20
Venue: Room C (303)

C8-1 Review on Increase of Allowable Current for Conductors
Masanori Isozaki, Yoshiyuki Saito (Tokyo Electric Power Company), Koji Nagano (J-power Systems Corporation)

C8-2 Combined In-situ Infrared Measurement And Numerical Thermal Analysis for The Diagnostic of Overhead Line Joints
Mohamed Chaaban, Christophe Comte, Stephan Beuregard, Yves Blanchette (Research Institute, Hydro Quebec), Andr Leblond, Bernard Panaroni (Trans?nergie, Hydro Quebec)

C8-3 On-line Monitoring Method for Overvoltage of Overhead Transmission Lines
Lin Du, Afei Chang, Wenxia Sima, Qing Yang (Chongqing University)

C8-4 A Wavelet-based Method for Real-time Transient Disturbance Detection
Flavio Bezerra Costa, Benemar Alencar Souza, Nubia Silva Dantas Brito (Ufcg)

C8-5 Assessment of Electrical And Mechanical Condition of High Voltage Transmission Lines
Constantin Moldoveanu (Sc Nova Industrial Sa Romania), Stelian Gal, Theodor Stoenescu, Constantin Matea (Cntee Transelectrica Sa Romania), Roman Bernard, Peter Arnez (Flycom D.o.o. Slovenia)

C8-6 Application of Finite Element Method (fem) To Study Induced Current Densities on Utility Poles
A. Wong, H. L. Rasara, K. L. Wong (Rmit University)

Poster Session P1
Tuesday September 7, 18:00-20:00
Venue: Lobby

Cables

P1-1 Activation Energy To Be Used in Cable Environmental Qualification Test
Takefumi Minakawa, Toshio Yamamoto (Japan Nuclear Energy Safety Organization)

P1-2 Aging Factors To Be Considered in Cable Environmental Qualification Test
Toshio Yamamoto (Japan Nuclear Energy Safety Organization), Takefumi Minakawa

P1-3 Condition Assessment of Pvc Insulated Low Voltage Cables By Voltage Response Method
Zoltan Adam Tamus, Endre Nemeth (Budapest University of Technology And Economics)

P1-4 Quantitative Analyses of Polymer Ageing And Lifetime Prediction
Akihiro Koike, Taketoshi Toyoda, Atsushi Hashimoto (Tokyo Electric Power Company)

P1-5 Optical Phenomena From Insulating Polymeric Materials Correlated To Charge Characteristics
Haibao Mu, Guan-jun Zhang (Xi'an Jiaotong University), Yasuhiro Tanaka, Hiroaki Miyake (Tokyo City University)

P1-6 The Role of Small Partial Discharges in The Degradation of Polymeric Insulation
Michael Danikas (Democritus University of Thrace)

P1-7 Estimation of Dielectric Loss Using Damped Ac Voltages
Edward Gulski, Richard Houtepen, Johan J Smit, Lukasz Chmura, Ben Quak (Delft University of Technology)

P1-8 Study on Pulse Response Aiming To Water Tree Diagnosis for Power Cables With Spatial Resolution
Naohiro Hozumi, Susumu Hiei (Aichi Institute of Technology), Takashi Kurihara, Tatuki Okamoto (Central Research Institute of Electric Power Industry), Taizou Tsuji, Katsumi Uchida (Chubu Electric Power)

P1-9 Insulation Evaluation of Water Tree Aged 10 kV XPLE Cable By Thermal Pulse Method
Boxue Du, Hongbo Li, Lin Yang (Tianjin University)

P1-10 On-line Monitoring System of Conductor Temperature for 220 kV XPLE Cable
Boxue Du (Tianjin University), Meng Liu (Tianjin Univerirty)

P1-11 Influence of The Thermal Stress on The Diagnostic Parameters of Pilc Cables
Ivana Mladenovic, Christian Weindl (University of Erlangen-nuremberg, Germany)

P1-12 Practical Aspects of On-site Testing And Diagnosis of Transmission Power Cables in China
Edward Gulski (Professor), Piotr Cichecki (Phd Student), Jiankang Zhao (Deputy Director), Rong Xia (Engineer), Rogier Jongen (Product Manager), Paul Petrus Seitz (Ceo), Andreas Porsche (Vice President), Huang Li (Manager)

P1-13 Effect of Antioxidants in Radiation Or Thermal Accelerated Ageing of Polymer Materials for Cables
Jae-hun Yoon (Chungbuk National University), Hisaaki Kudo (University of Tokyo), Akihiko Shimada, Akira Idesaki, Takeshi Ohshima, Kiyotoshi Tamura, Tadao Seguchi (Japan Atomic Energy Agency)

P1-14 The Latest Applications of Fiber-optic Distributed Temperature Sensing System To Underground Power Cable Lines
Tsuyoshi Igi, Hidehiko Komeda (J- Power Systems Corporation)

P1-15 Thermal Analysis of Cables in Tunnel Using Supg Finite Element Method
Yongchun Liang, Zhongjie Wang, Jianye Liu, Lihua Sun (Hebei University of Science And Technology)

P1-16 Thermal Analysis of Underground Power Cables With Consideration of Moisture Transfer in The Soil Using Nonlinear Finite Element Method
Yongchun Liang (Hebei University of Science And Technology)

P1-17 Investigation on Electrical Characteristics of Hdpe Mixed With Eva Applied for Recycleable Power Cable Insulation
Hung Kyu Lee (Chungju National University, Korea), Han Joo Lee, Eui Hwan Jung, Kee Joe Lim (Chungbuk National University, Korea)

P1-18 Diagnosis And Asset Management of Electric Equipment of Manufacturing Industry
Masaaki Ikeda (Nippon Petroleum Refining Co., Ltd.)

P1-19 Determination of Electric Field Distribution at High Voltage Resistive-capacitive Cable Terminations
Nazar Hussain Malik, Abdulrehman Ali Al-arainy, Mohammed Iqbal Qureshi, F R Pazheri (King Saud University)

P1-20 Irradiation Condition on Accelerated Ageing Test of Cable Designed for Nuclear Power Plants
Akihiko Shimada (Japan Atomic Energy Agency), Hisaaki Kudo (University of Tokyo), Akira Idesaki, Takeshi Ohshima, Kiyotoshi Tamura, Tadao Seguchi (Japan Atomic Energy Agency)

P1-21 Study on Temperature Distribution of Power Cables at The Entrance of Pipe And Well
Tao Yi, Yan-ling Zheng, Guan-jun Zhang (Xi'an Jiaotong University), Feng-min Yang, Yan-hui Zhang (Zhengzhou Power Supply Company), Wei Song (Henan Electric Power Grid Company)

P1-22 The Experimental Study of The PD And Interference Signals Transmission Characteristics in The Cross-bonding Link-system With The Capacitor Sensor
Wei Wang (North China Electric Power University), Chong Liu (Wenzhou Electric Power Supply Bureau), Heng Sui, Chaofei Gao, Zan Wang (North China Electric Power University)

P1-23 On-line Temperature Monitoring of 10kV Underground Cable in Pipe Based on Dts Technology
Yanling Zheng (Yanling_zheng@126.com)

P1-24 Measurement And Analysis of Partial Dischargs on Dffects of Cncv-w Cable
Jaehun Yoon (Chungbuk National University Imt Lab.), Kee Jo Lim (Chungbuk National University), Seung Wha Kang (Chungcheong University), Han Sik Chi (The Small & Medium Business Administration (smba))

P1-25 Fault Analysis of GIS Cable Terminal Kit in Railway Power System
Kang Won Lee, Dong Uk Jang, Jai Kyun Mok (Krri)

P1-26 Proposal of Measurement Technique for Electromagnetic Field Intensity Distribution Generated By Partial Discharge
Noritaka Chiyo, Mizuki Arai, Yasuhiro Tanaka (Tokyo City University), Takuichi Hirano (Tokyo Insitute of Technology), Atsuhiro Nishikata (Tokyo Institute of Technology), Takashi Maeno (National Institute of Information And Communications Technology)

P1-27 Dielectric Loss Measurement of Power Cables Using Hamon Approximation
Daniel Goetz, Hubert Schlapp, Dr. Frank Petzold, Hein Putter (Seba Dynatronic)

P1-28 Lifetime Management on 6.9kV Cable at Power Plants By Weibull Distribution
Noh-joon Park (Wonkwang University), Hee-dong Kim (Korea Electric Power Research Institute), Dae-hee Park (Wonkwang University)

P1-29 Partial Discharge Experiments of Mv Cable Joints With Artificial Defect
Wenjie Li, Junhua Luo, Rong Xia, Jiankang Zhao, Shaoxin Meng (State Grid Electric Power Research Institute of China), Yun Jiang (Shanghai Cable Transmission & Distribution Company, Shanghai, China)

P1-30 Reliability Evaluation of Distribution Cable Diagnosis Instruments With Field Test
Noh-joon Park (Wonkwang University), Young-min Kim, I. K. Kim (Hanwootech Co., Ltd.), Dae-hee Park (Wonkwang University)

P1-31 Experiences of Partial Discharge Measurement in Ehv XPLE Power Cable System
Takenori Nakajima, Noboru Ishii, Tetsuo Matsumoto, Hideo Tanaka, Hiroyuki Kon, Adachi Kiyomi (Viscas Corporation)

P1-32 Site Installation Experience of Underground Cable Safety Monitoring System Using Dts And Drs
Sung-min Park, Seong-kook Choi, Young-kwan Kim, Dong-seok Hong (Taihan Electric Wire Co.), Seong-weon Kim, Je-hyeong Lee (Korea Electric Power Corporation)

Common Techniques

P1-33 Advancement And Sophistication of The Maintenance Technologies in Power Distribution Facilities
Kensuke Toyoshima (Kansai Electric Power Company)

P1-34 Measures And Methods of Field Grading for High Voltage Electrical Equipment
Michael Walch, Juergen Fabian, Michael Muhr (Graz University of Technology)

P1-35 Simulation of Partial Discharges in Voids By Fluid Continuity Equation
Kai Wu, Kai Qin (State Key Laboratory of Electrical Insulation And Power Equipment, Xi'an Jiaotong University), Zenghui Han (State Key Laboratory of Electrical Insulation And Power Equipment, Xi'an Jiaotong University), Yongpeng Meng, Yonghong Cheng (State Key Laboratory of Electrical Insulation And Power Equipment, Xi'an Jiaotong University)

P1-36 Localization of Multiple Partial Discharge Sources Using Maximum Likelihood Estimation
Hirokazu Ishimaru (Nagoya Institute of Technology), Masatake Kawada (The University of Tokushima)

P1-37 Continuous Wave Terahertz Imaging Method for Ion Migration Detection
Hongbing Zhang (Venture Business Laboratory, Akita University), Kazutaka Mitobe, Masafumi Suzuki (Faculty of Engineering And Resource Science, Akita University), Noboru Yoshimura (Akita University)

P1-38 A Novel Method To Distinguish Between Noise And Partial Discharge Signal By Spec-trum Analysis And Phase Relevant Pattern
Min Yen Chiu (Chiu Min-yen)

P1-39 Risk-based Maintenance Assessment Using Probabilistic Model
Masashi Kitayama (Mitsubishi Electric Corporation)

P1-40 Laboratory Measurements for Power System Condition Monitoring
Donald G. Kasten, Stephen A. Sebo (The Ohio State University), John L. Lauletta (Exacter, Inc.)

P1-41 A Hybrid Neural Network Approach for Solving Bilevel Programming Problems in A Power System Environment
Shamshul Bahar Yaakob, Junzo Watada (Graduate School of Ips Waseda University), Tsuguhiro Takahashi, Tatsuki Okamoto (Central Research Institute of Electric Power Industry)

P1-42 Study of Decision Support Programs for Maintenance Strategy of Electric Power Equipment
Tsuguhiro Takahashi, Takashi Kuraishi, Tatsuki Okamoto (Criepi)

P1-43 Simulation Model for Calculating The Dielectric Properties of Nano-composite Materials Comprehensive Inter-phase Approach
Ahmed Thabet Mohamed, Youssef Ahmed Mobarak (Assistant Professor), Mohamed Samir Fahmy (Researcher)

P1-44 An On-line Operating Management Platform for Energy-saving of Thermal Power Plant
Bin Li, Jianhua Liu (North China Electric Power University)

P1-45 An Auto-searching Method for Determining The Optimal Operation Condition of Fossil Fired Power Plant
Bin Li, Jianhua Liu (North China Electric Power University)

P1-46 Development of Electric Safety Monitoring System for Traditional Markets Using Electrical Safety Factor
Gi Hyun Kim, Sang Ick Lee, Seong Su Shin, Suk Myong Bae (Kesco)

P1-47 Surface Discharge on Polymer Materials Under Hvac in Different Gaseous Environments
Haibao Mu, Guan-jun Zhang (Xi'an Jiaotong University), Shota Suzuki, Yasuhiro Tanaka, Tatsuo Takada (Tokyo City University)

P1-48 The High Frequency Characteristic of Wideband Rogowski Coil With Low Frequency Ferrite Core
Yangchun Cheng, Wei Liu (North China Electric Power University), Ping Li (Orth China Electric Power University), Chengrong Li (North China Electric Power University)

P1-49 Thermal Effects of Electromagnetic Energy Concentration Inside Metallic And Dielectric Structures
Romeo Ciobanu (Technical University Iasi, Dept. of Electrical Measurements And Materials), Radu Damian (Technical University Iasi, Dept. of Telecommunications), Cristina Schreiner (Technical University Iasi, Dept. of

Electrical Measurements And Materials)

P1-50 The Aging Diagnosis of Hfpd Using The Delta-f Reformation for Pattern Recognition of Discharge
Jang-seob Lim, Seong-ho No, Ji-sun Kim (Mok-po National Maritime University), June-ho Lee (Hoseo University)

P1-51 Tester Pen To Analize Twisted Pairs in Telecom Cabinets
Fabio Pizzuti (Fabio Pizzuti)

P1-52 Real-time Quality Monitoring of Arc Welding Using Input Impedance
Yoke-rung Wong (Research Student), Shih-fu Ling (Professor), Keng-hwee Wee (Vice President), Baba Osamu (Assistance General Manager)

Switchgears

P1-53 Development of Digital Panel Board Include Communications Function
Sangick LeeSungsu, Gihyun Kim, Seokmyung Bae (Kesco)

P1-54 Removal of Oxide Layer on Metal Surface Using Cathode Spot in Vacuum Arc for Reuse
Toru Iwao, Shinya Kamishima, Masashi Namba, Naoko Ogura, Motoshige Yumoto (Tokyo City University)

P1-55 Optimum Maintenance Strategies Based on Circuit Breaker Diagnoses for Minimization of Total Cost of Electric Power System Operation
Yotaro Suzuki, Kaio Wakaiki, Hiroki Kojima, Naoki Hayakawa, Fumihiro Endo, Hitoshi Okubo (Nagoya University)

P1-56 A Designation of Intelligent Switchgear Monitoring Indicator
Xinbo Huang, Guanbao Huang (Xi'an Polytechnic University)

P1-57 Influence of Metal Braizing for Pd-induced in Vacuum Interrupter
Jaehun Yoon, Keejoe Lim (Chungbuk National University Imt Lab.)

P1-58 Partial Discharge Detection of GIS By The Time Series Index Approach Under Experimental Verification
Cheng-chien Kuo, Chun-te Chen (Saint John?fs University)

P1-59 Life Management of The High Voltage Sf6 Circuit-breakers
Xiang Zhang, Ernst Gockenbach (Institute of Electric Power Systems (schering-institute) Leibniz Universit), Haibo Chen, Zhaolin Liu, Linghui Yang, Kai Gao, Chenzhao Fu (East China Electric Power Test And Research Institute Co. Ltd., Shanghai, China)

P1-60 Partial-discharge Recognition in Three-phase GIS Using Neural Networks
Deny Hamdani (Bandung Institute of Technology, Indonesia), Umar Khayam (Bandung Institute of Technology, Indonesia, Kyushu Institute of Technology, Japan), Suwarno (Bandung Institute of Technology, Indonesia), Masahiro Kozako, Masayuki Hikita (Kyushu Institute of Technology, Japan), Nobuko Otaka (Japan Ae Power Systems Corporation, Tokyo, Japan), Yoshiki Takehara (Hitachi Engineering And Services, Ibaraki, Japan)

P1-61 Development of The Sf6 Gas Density Sensor for Condition-based Maintenance of GIS
Takashi Ito, Tatsuya Yabe, Aya Yamamoto, Mitsuhito Kamei (Mitsubishi Electric Corporation)

P1-62 Sensitivity Evaluation of Different Types of PD Sensors for Uhf-pd-measurements
Alexander Troeger (Abb Switzerland Ltd.), Simon Burow (University of Stuttgart), Uwe Riechert (Abb Switzerland Ltd.), Stefan Tenbohlen (University of Stuttgart)

P1-63 Particle-initiated Partial Discharge Characteristics for GIS Diagnosis
Keisuke Suzuki, Motoki Asai, Hiroki Kojima, Naoki Hayakawa, Fumihiro Endo (Nagoya University), Masanobu Yoshida (Chubu Electric Power Co.), Hitoshi Okubo (Nagoya University)

P1-64 Mechanical Properties Detection of Circuit Breaker Based on High Speed Digital Camera
Wei Wang, Fei Fan, Chengrong Li (North China Electric Power University), Xingquan Huang (Henan Epri of China), Qi Li (North China Electric Power University)

P1-65 Application of PD Detection Technique To Assess The Dielectric Quality of Solid Insulated Switchgear
Wonjong Kang, Dohoon Lee, Jihoon Ma, Seokweon Park, Jongho Lee (Ls Industrial Systems)

P1-66 Two Level On-line Monitoring System To Reduce GIS Components Failure
Jae-hun Yoon (Chungbuk National University), Muhannad Al-suhaily (Delft University of Technology), Sander Meijer (Tennet Tso Netherlands), Johan J. Smit (Delft University of Technology), Peter Sibbald, Jos Kanters (Tennet Tso Netherlands), Piotr Cichecki (Delft University of Technology)

P1-67 An Influence of New Arc Quenching Methods for Improving The Interrupting Capability of Low Voltage Circuit Breaker
Jae-hun Yoon (Chungbuk National University), Kilsou Kim (Ls Industrial System Co,.ltd , Korea), Kee Jeo Lim (Chungbuk National University, Korea), Seungwha Kang (Chungcheong University, Korea)

P1-68 Study of The Application of Ptc Elements for Molded Case Circuit Breakers
Kilsou Kim (Ls Industrial System ,.co Ltd), Keejeo Lim (Chungbuk National University , Korea), Seungwha Kang (Chungcheong University, Korea)

P1-69 Attenuation Characteristics of Electromagnetic Waves Due To Partial Discharges in A GIS Using Different Types of Pd-detecting Coupler
Toshihiro Hoshino, Shiro Maruyama (Toshiba Corporation), Shinya Ohtsuka, Masayuki Hikita (Kyushu Institute of Technology), Genyo Ueta, Shigemitsu Okabe (Tokyo Electric Power Company)

P1-70 New Approach To Calibration of PD Magnitude Regarding GIS Using Three-dimensional Electromagnetic Analysis
Toshihiro Hoshino, Shiro Maruyama, Takaaki Sakakibara (Toshiba Corporation)

P1-71 Condition Assessment of Gas Circuit Breaker Using Dynamic Contact Resistance Measurement (dcrm) Technique
Pallavi Yadav (Crompton Greaves Limited)

P1-72 Partial Discharge Testing for Distribution Switchgears
Yuan Tian, Neil Davies, David Russell (Ea Technology Ltd)

P1-73 Detection of Sf6 Decomposition Gases Generated By Hvdc Partial Discharges Using Carbon Nanotube Gas Sensor
Yul Martin, Zhenyu Li, Takuya Tsutsumi, Kiminobu Imasaka, Junya Suehiro (Kyushu University), Shinya Ohtsuka (Kyushu Institute of Technology)

P1-74 Hotspot Monitoring on Switchgear's Clamps And Proposed Improvement
Himmel Sihombing (Pt Pln (persero) P3b Jawa Bali)

P1-75 Development of Monitoring & Diagnostic System for Air-type Operating Controller of 170kV GIS

Young Min Kim, Soo Jin Lee, Min Soo Kim, Young Jun Choi (Hyosung Coporation)

Transformers

P1-76 Common Information Model (cim) Extension for Asset Management in Future Intelligent Grids
Gautam Bajracharya, Tomasz Koltunowicz, Dhiradj Djairam, Johan Smit (Delft University of Technology)

P1-77 Effect of Corrosive Sulfur on Transformer Insulations
Ahmed Abu Siada (Dr)

P1-78 Development of Evaluation Method for Combustion Properties of Insulation Fluids for Transformers
Osami Sugawa, Tomohiko Imamura (Tokyo University of Science, Suwa), Kyoko Kamiya (Yokohama National University), Katsunori Miyagi, Akira Yamagishi (Japan Ae Power Systems Corporation)

P1-79 Monitoring of Distribution Transformers Condition By Dissolved Gas Analysis
Atikah Dewi Anggreny (Pt. Pln (persero) Distribusi Jawa Barat Dan Banten)

P1-80 Comparative of Streamer Propagation Between Natural Esters Applications And Nutrition Esters Under Lightning Impulse Voltage
Viet Hun Dang, Abderrahmane Beroual (Ecole Centrale De Lyon - Ampere Lab.), Christophe Perrier (Areva T & D Power Transformers – Technology, Innovation & Competence Center (ticc))

P1-81 Assessing Oil Reclamation Effectiveness By Means of Turbidity And Spectro-photometry Analysis
Janvier Sylvestre Ncho, Abderrahmane Beroual (Ecole Centrale De Lyon - Ampere Lab.), Issouf Fofana (Isolime - University of Quebec In Chicoutimi, Qc, Canada), Thomas Aka (Ecole Centrale De Lyon - Ampere Lab.), John Sabau (Insoil Canada Ltd, Canada)

P1-82 Transformer Life Management Program- Necessity And Importance
Bahie Shahbazi, Safar Farzalizadeh, Mohammadreza Shariati (Niroo Research Institute)

P1-83 Preventive Maintenance of Oil-type Distribution Transformer at Kmutt
Mr. Choomphon Thongphudsee, Supakit Chotigo, Mr.boonnua Pungsiri (King Mongkut's University of Technology Thonburi)

P1-84 Influences of Filler Depending on Electrical Insulation Properties of Nano-composite
In-bum Jeong, Joung-sik Kim, Hyeon-seok Han, Young-sang Lee, Jong-yong Lee (Kwangwoon University), Jong-yeol Shin (Sahmyook University), Jin-woong Hong (Kwangwoon University)

P1-85 Optimization of Transformer Loading Based on Hot-spot Temperature Using A Predictive Health Model
Gautam Bajracharya, Tomasz Koltunowicz, Rudy Negenborn, Dhiradj Djairam, Bart De Schutter, Johan Smit (Delft University of Technology)

P1-86 Artificial Neural Network Approach To Classify Transformer Faults Based on Dga Diagnosis
Govindaraj Murugesan, Saravanan S, Sushil E Chaudry、Venkatasami Athikkan (Crompton Greaves Ltd)

P1-87 Optimizing Transformer Conservator Design Along With Insulation System Maintenance Efficiency
Harry Gumilang, Amanda Sri Lestari Putri (Pt. Pln (persero) P3b Jawa Bali Rjkb)

P1-88 Application of Bam Network in Fault Diagnosis of Power Transformer
Yongchun Liang (Hebei University of Science And Technology)

P1-89 Different Case Studies From Iranian Transformers Condition Assessment
Mohammad Moradi (Iran University of Sience And Technology)

P1-90 Study of Behaviour of Vegetable And Petroleum Based Dielectric Fluids During Thermal Ageing
Pavel Prosr, V Mentl, Radek Polansk, Josef Pihera, Pavel Trnka (The University of West Bohemia)

P1-91 Failure Statistics And Condition Assessment of Power Transformer for Condition-based Maintenance
Rattanakorn Phadungthin (King Mongkut's University of Technology North Bangkok, Thailand), Cattareeya Suwanasri (Naresuan University, Phitsanulok, Thailand), Thanapong Suwanasri (King Mongkut's University of Technology North Bangkok, Thailand)

P1-92 A Systematic Approach To A Fail Proof Power Transformer Through Specification
Rajendra Kumar Mohapatra (Bhel , Jhansi , India)

P1-93 Practical Verification of Dga Automatic Diagnosis for Power Transformers With New Vev Method for Second Level of Diagnosis Resolution
Mladen Banovic (#エラー), Jean Sanchez, Mohamed Belmiloud (Tsv)

P1-94 An Efficient Integrated Approach To Power Transformer Condition Assessment
Ruijin Liao, Hanbo Zheng, Lijun Yang, Yiyi Zhang, Feilong Huang (State Key Laboratory of Power Transmission Equipment And System Security And New Technology)

P1-95 Research on Aging Characteristics of Oil Impregnated Pressboard Under Combined Thermal And Electrical Stresses
Shiqiang Wang (Xi'an Jiaotong University, China, Sqwang1983@gmail.com), Guanjun Zhang (Xi'an Jiaotong University, China, Gjzhang@mail.xjtu.edu.cn)

P1-96 Derivation of Aging Characteristics for Power Transformers By Artificial Intelligence Techniques
Tirinya Cheumchit, Armin Schnettler (Institute For High Voltage Technology, Rwth Aachen University, Germany), Thanapong Suwanasri (King Mongkut's University of Technology North Bangkok, Thailand)

P1-97 Study on Time-domain Spectroscopy of Dielectric Response Applied in Oil-paper Insulation Thermal Aging
Jian-lin Wei (Xi'an Jiaotong University)

P1-98 Study on On-line Dielectric Response of Oil-paper Insulation During Accelerated Aging Process at High Temperature
Jian-lin Wei (Xi'an Jiaotong University)

P1-99 Optimal Accelerated Aging Tests for An Epoxy Resin Insulation System
Qikai Zhuang, Peter Morshuis, Xiaolin Chen, Dhiradj Djairam (Delft University of Technology), Zhongrong Xu (Smit Transformatoren Bv), Johan Smit (Delft University of Technology)

P1-100 Transformer Insulation Oil Diagnosis Using Rbot
Baburao Keshawatkar, Anil Kumar Bhatia, Venkatasami Athikkan (Crompton Greaves Limited), Nalin Nanavati (Raj Petro Specialities P Ltd)

P1-101 Dielectric Breakdown Characteristics on Silicon Oil.
Martin Alfred Baur (Baur Pruef- Und Messtechnik Gmbh), Christian Hoffmann

Poster Session P2
Wednesday September 8, 18:00-20:00
Venue: Lobby

Arresters/Power Capacitors/Others

P2-1 Assessment of Zinc Oxide Varistor Degradation Using Return Voltage Measurements Method
Zulkarnain A. Noorden, Zulkurnain Abdul-malek (Universiti Teknologi Malaysia)

P2-2 Performance Analysis of Portable Gapless Surge Arrester Condition Monitoring System Based on Shifted Current Method
Zulkurnain Abdul-malek (Universiti Teknologi Malaysia), Mohd Fairouz Mohd Yousof (Universiti Tun Hussein Onn Malaysia)

P2-3 Design And Fabrication of Potential Rise Analysis System Using Electrolytic Tank
Hyoung-jun Gil, Dong-woo Kim, Dong-ook Kim, Ki-yeon Lee, Hyun-wook Moon, Hyang-kon Kim (Korea Electrical Safety Corporation)

P2-4 Electric And Magnetic Field Distribution in High Voltage Laboratory When High Voltage Generator Discharge.
Phuriphan Palm Tiraphan, Supakit Supakit Chotigo, Boonnua Boonnua Pungsiri (King Mongkut's University of Technology Thonburi)

P2-5 Pd Classification at Dc Voltage Using A Fractal Analysis Method By Fiber Current Signals
Boxue Du, Zongle Ma, Xinxin Cheng (Tianjin University)

P2-6 Space Charge And Electrical Breakdown Properties in Pvc Exposed To High Temperature
Masakazu Miura (Criminal Investigation Laboratory , Shimane Prefectural Police), Masumi Fukuma (Department of Electrical Engineering , Matsue National College of Technology), Satoru Kishida (Department of Electrical And Electronic Engineering, Tottori University)

P2-7 Development of Detector of Partial Discharges in Oil-filled Bushings
Masao Nakai (Kanasai Electric Power Co., Inc.), Tadashi Sato, Koichi Taketa

P2-8 Fuzzy Dissolved Gas Analysis Applied on High-voltage Instrument Transformers
Thanos Krontiris (Tu Darmstadt), Bartosz Rusek (Amprion Gmbh), Gerd Balzer (Tu Darmstadt)

P2-9 Text Mining System for Analyzing Facility Maintenance Log
Osamu Segawa (Chubu Electric Power Co.,inc.), Kazuhiko Murakami, Masaki Mizuno, Munehiro Furusato (Chuden Cti Co.,ltd.)

P2-10 The Effect of Stray Capacitance in Self-designed Coaxial Marx Generator
Yong-moo Chang (Eft Center, Hanyang University, Korea), Sang-woog Lee (Emd, Hanyang University, Korea)

P2-11 Breakdown Characteristic Due To Free Particles PD of Sf6/n2 Mixed Insulation Gas for Gil in Korea
Yong-moo Chang, Chul-ho Kim (Eft Center, Hanyang University), Jae-chul Kim, Jeong-tae Kim (Dept. Electrical Eng., Daejin University), Hae-young Lee, Ja-yoon Koo (Smdt Lab., Hanyang University)

P2-12 Charge Injection in The Pet

Hoan Tran Van, Jean-louis Auge, Pascal Rain (G2elab Cnrs Joseph Fourier University)

P2-13 Dielectric Loss Factor Measurement of High Voltage Capacitive Apparatus Based on Harmonic Analysis Method

Qiang Gao (Shanghai Jiao Tong University), Yang Jun Zhang, Qi Liu, Jun Mao Wang (Northeast Electric Power Research Institute), Hao Ge Sheng, Chen Xiu Jiang (Shanghai Jiao Tong University)

P2-14 Electromagnetic Energy Harvesting By Field Concentration in Intelligent Materials

Romeo Ciobanu (Technical University Iasi, Dept. of Electrical Measurements And Materials), Radu Damian (Technical University Iasi, Dept. of Telecommunications), Cristina Schreiner (Technical University Iasi, Dept. of Electrical Measurements And Materials)

P2-15 Fuzzy Logic Combined With Impedance Measurements To Assess The Soc And Soh of Lithium-ion Cells

Ali Zenati, Philippe Desprez (Saft Batteries), Hubert Razik (Laboratoire Ampere), Rael Stephane (Laboratoire Green)

Outdoor Insulation

P2-16 A Simulation of Effective Dielectric Properties Response of Nano-composite Using Different Fitting Models

Ahmed Thabet Mohamed (A. Thabet), Youssef Ahmed Soliman (Y. A. Mobarak), Mohamed Abdrbo Sayed (M. Abdrbo)

P2-17 The Characteristics of Ultra-violet Rays Signal on The Polymer Insulator Due To Corona Discharge

Youngseok Kim, Kilmok Shong, Myeongil Choi, Chongmin Kim, Sunbae Bang (Korea Electrical Safety Corporation)

P2-18 Condition Assessment of 150 kV Aged Insulators

Edy Iskanto, Buyung Sofiarto Munir (Pt Pln (persero) Research And Development)

P2-19 Pattern Analysis of Discharge Characteristics for Hydrophobicity Evaluation of Polymer Insulator

Boxue Du, Jie Li, Yong Liu (Tianjin University)

P2-20 Analysis of Electric Field Distribution of Line Post Polymer Insulator Used in Dc Electric Railway Accodring To Defects

Donguk Jang, Kiwon Lee, Hyolchul Kim (Korea Railroad Research Institute)

P2-21 Electrical And Temperature Characteristics of Polymer Surge Arrester With Thermal Mechanical Stress And Manufacturing Conditions

Han-goo Cho, Kwang-yong Kim (Korea Electrotechnology Research Institute)

P2-22 The Hydrophobic Study of Silicone Rubber And Epdm Insulation Under Dust With Uv & Temperature

Apisit Chaisaengsukkul (King Mongkut's Institute of Technology, Bangkok, Thailand), Vijit Kinnares, Norasage Pattanadej (King Mongkut's Institute of Technology, Ladkrabang, Thailand)

P2-23 Study on Flashover Performance on Surface of Hvac Insulators

Narongsak Sirimasakul, Supakit Chotigo, Boonnua Pungsiri (King Mongkut's University of Technology Thonburi)

P2-24 Development of A 19-channel Leakage Current Monitoring System for Natural Pollution

Deposit Test
Hongwei Mei (Mei Hongwei)

P2-25 A New Electrical Equivalent Circuit of Outdoor Insulators Based on Leakage Current Waveforms And Computer Simulation
Xin-bin Jiang (Department of Electrical Engineering, Tsinghua University, Haidian District, Beijing 100084, China;), Li-ming Wang (Graduate School At Shenzhen, Tsinghua University, Shenzhen 518055, Guangdong Province, China;)

P2-26 Monitoring Insulator Leakage Current in South of Brazil: Different Approaches for Different Requirements
Luiz H Meyer (Furb - University of Blumenau), Fernando H Molina (Celesc), Thair I Mustafa (Furb - University of Blumenau)

P2-27 Fault Detection And Localisation Method for Single-wire-earth-return (swer) Distribution Lines
A Wong, K. L. Wong, Jiangxia Zhong (Rmit University)

P2-28 Leakage Current Waveforms of Epoxy Resin Insulators Under Clean Fog And Computer Simulation Using Atp/emtp
Suwarno Harjo, David Parsaoran (Bandung Institute of Technology)

P2-29 The Estimation of Aging Condition of Outdoor Insulator Using The Weibull Distribution And The Chaos/fractal Mathematics
Jang-seob Lim, Seong-ho No, Ji-sun Kim (Mok-po Nat'l Maritime Univ.), Jin Lee (Mok-po Nat'l Univ.), June-ho Lee (Hoseo Univ.)

Overhead Lines

P2-30 Fault Parameter Effects on The Energies of The Fault-induced Transients
Flavio Bezerra Costa, Benemar Alencar Souza, Nubia Silva Dantas Brito (Ufcg)

P2-31 Study And Development of The Fiber-optic Digital On-line Monitoring System for High-voltage Capacitive Equipments
Yun-peng Liu (North China Electric Power University)

P2-32 Research on Measurement System About Dynamic Loss of Transmission Line Based on Gps Synchronization
Yun-peng Liu (North China Electric Power University)

P2-33 High Altitude Conductor Corona Characteristic Test System Research Based on Artificial Climate Laboratory
Yun-peng Liu (North China Electric Power University)

P2-34 Comparison of Various Algorithms for The Determination of The Temperature of Overhead Line Conductors
Thomas Judendorfer, Stefan Jaufer, Michael Muhr (Tu Graz, Institute of High Voltage Engineering)

P2-35 A Fbg Sensor Applied in Ice Monitoring of Overhead Transmission Lines
Guo-ming Ma, Cheng-rong Li, Jian Jiang, Jiang-tao Quan, Yang-chun Cheng (Beijing Key Laboratory of High Voltage & Emc (north China Electric Power University))

P2-36 A Novel Temperature Monitoring System of Overhead Transmission Lines Based on Fbg

Sensor
Guo-ming Ma, Cheng-rong Li, Jian Jiang, Jiang-tao Quan, Yang-chun Cheng (Beijing Key Laboratory of High Voltage & Emc (north China Electric Power University))

P2-37 A Novel Sensing Device for Power System Equipment Condition Monitoring
John L. Lauletta (Exacter, Inc.), Stephen A. Sebo (The Ohio State University)

P2-38 Development of Optimal Period Decision Approach for Conductor Replacement Based on Bayesian Inference
Masanori Isozaki, Takao Suzuki (The Institute of Engineers of Japan), Toshiyuki Ozaki

P2-39 New Method for Efficient Inspection To Find Damaged Part of Ground Wire By Lightning
Masahito Shimizu (Chubu Electric Power Co., Inc.), Masayoshi Arakane (Nichihoku Co., Ltd.), Hiroaki Saito (Nichiyu Giken Kogyo Co., Ltd.)

P2-40 A New On-line Monitoring System of Transmission Line Icing And Snowing
Xinbo Huang (Xi'an Polytechnic University,south China University of Technology)Lisha Ouyang, Guanbao Huang (Xi'an Polytechnic University)

P2-41 Robot for Inspection of Charged Transmission Lines
Kiyoshi Tamura, Tetsuharu Nishimura (The Kansai Electric Power Co. Inc.), Shigeo Hirose, Fumihiko Edwardo Fukushima (Tokyo Institute of Technology), Paulo Debenest, Michele Guarnieri (Hibot Co. Inc.), Hiroshi Kubokawa, Narumi Iwama, Fuminori Shiga (J-power Systems Co. Inc.), Tsuneo Oshima, Youichi Ichioka (Kanden Engineering Co. Inc.)

Rotating Machines

P2-42 Application of Partial Discharge Measurement on High Voltage Motor By Magnetic Method
Min Yen Chiu (Chiu Min-yen)

P2-43 Modelling of Hydroelectric Generator Failure Modes Using Bayesian Network
Kim-lan Zappellini, Mathieu Couplet (Edf R&d), Olivier Vacheron, Pierre-jean Ferrasse, Serge Stella (Edf Dpih)

P2-44 Analysis of Vibration Signal of Dc Motor Based on Hilbert-huang Transform
Chun-yao Lee (Chung Yuan Christian University), Kuo Cheng-chien (Saint John's University), Lin Hung-chi (Chung Yuan Christian University)

P2-45 Fault Detection of Rotating Machine With On-line Partial Discharge Testing
Hasan Ranjbarzadeh (Not), Ali Farshidnia, Reza Keyvanian

P2-46 Application of Piezoelectric Paint Sensor on High Frequency Rolling Element Bearings
Ismail Shaban Gniedi (Mellitah Oil Gas Company)

P2-47 On-line Monitoring of Motor And Generator Rotor Winding Turn Insution Without Load Changing
Greg Stone, Mladen Sasic (Iris Power)

P2-48 A Comparison Among Different Conventional And Nanofilled Electrical Insulating Enamels
Francesco Guastavino, Alessandro Ratto, Stefano Squarcia, Eugenia Torello (University of Genova - Electrical Engineering Department)

P2-49 Tightness Measurement of The Bolted Joint With Electromechanical Transducer
Shih-fu Ling (Chairman of School of Mechanical And Aerospace Engineering (ntu)), Ivan Tanra (Research Student)

P2-50 Considerations on The Long Term Reliability of on Line Partial Discharge Ceramic Sensor for Thermal Power Generators
Jong-ho Sun, Dong-ha Hwang, Young-woo Youn, Dong-sik Kang (Korea Electrotechnology Research Institute (keri)), Chan Nam-gung, Myung-ho Joo (Korea East-west Power Co., Ltd)

P2-51 A Diagnosis Algorithm for Low Voltage Induction Motor Using Stator Current And Vibration
Young-woo Youn, Don-ha Hwang, Dong-sik Kang (Korea Electrotechnology Research Institute (keri))

P2-52 Induction Motor Faults Detection By Electrical Input Impedance
Kar Foong Lian, Shih-fu Ling (School of Mechanical And Aerospace Engineering, Nanyang Technological University)

P2-53 New Approach To Alignment of Biaxial Machinery With Face And Rim Method
Salar Khobani, Mohsen Khandan (Islamic Azad University, South Tehran Branch), Mahdi Heydari (Sharif University of Technology), Hamzeh Hosseini (Islamic Azad University, Ahwaz Branch)

P2-54 Probabilistic Diagnosis of Short Circuit Fault in Stator Winding of Motor
Hiroyuki Fukui, Yukio Mizuno (Nagoya Institute of Technology), Hisahide Nakamura (Toenec Corporation)

P2-55 Verification of Thermal Treatment Influence on Thermosetting Epoxy Laminate Properties Via Dynamic Mechanical Analysis
Radek Polansk, Pavel Prosr, V Mentl, Josef Su (University of West Bohemia)

P2-56 Bearing Fault Detection Improvement Using Several Stator Current Measurements in Asynchronous Drives
Baptiste Trajin, Jeremi Regnier, Jean Faucher (Laplace Laboratory)

P2-57 A Method Based on Analytical Hierarchy Process for Generator Risk Assessment
Zare Ernani Mohammad, Asghar Akbari (K.n.toosi University of Technology, Dept. of Electrical Engineering)

P2-58 Effective Machine Diagnosis With Implementing Various Condition Monitoring Techniques - A Case Study -
Vahid Rezaei (Tabriz Petrochemical Co.)

P2-59 On-line Vibration And Temperature Direct Measurement on High Voltage Devices Using Fiber Optic Sensor Technology
Marc R. Bissonnette (To Be Updated Later), David Wong, Daniel Chen

P2-60 Machine Condition Management System for The Offshore Plants
Kanika Singh (Khan Company), B-s Ham (Khan Compnay), J-s Choi, J-h Hyun (Khan Company)

Transformers

P2-61 Watt Losses Measurement Evaluation By Leakage Current Monitoring for High Voltage Lightning Arrester
Rikardo Siregar, Tony Suhartono (Pt. Pln (persero) P3b Jawa Bali Rjkb)

P2-62 Puls-sequence Analysis And Prpd Pattern Recognition of PD in Solid And Fluid Insulation Materials
Anne Peffer, Stefan Tenbohlen (Universitaet Stuttgart)

P2-63 Field Application of Partial Discharge Detection Technology Based on Uhf And Broadband

Pulse Current Method
Caixiong Wang (North China Electric Power University)

P2-64 Fault Diagnosis of Oltc Through Sfra And Routine Tests
Kiran Kumar Munji, Shubangi Patil (Crompton Greaves Ltd)

P2-65 Research on Characteristics of Emr of The High Voltage Equipment During The Process of Its Diagnostic
Nikolay Vladimirovich Kinsht, Natalia Nikolaevna Petrunko (Institute of Automation And Control Processes Far East Branch Russian Academy of Science)

P2-66 Localization of Partial Discharge in Model Transformer Tank Using Acoustic Emission Technique.
Arunachalam Narayanaperumal (Global R&d, Condition Monitoring And Diagnostics Research Centre)

P2-67 Magnetic Balance Test As Diagnostic Tool in Failure Investigation of Transformers.
Bhaskar Dattatrey Malpure (Crompton Greaves Ltd.)

P2-68 A Case Study on Condition Monitoring of Power Transformer
Wayan Ariastina, Ida Ayu Dwi Giriantari (Udayana University), Irvan Solin, O Yolanda (Pt. Pln (persero))

P2-69 An Investigation of 500 Mva 500/150/70 kV Inter Bus Transformer Failure.
Anilkumar B. Bhatia, Edy Iskanto, Didik Fauzi Dakhlan, Buyung Sofiarto Munir (Pt Pln (persero) Research And Development)

P2-70 Condition Monitoring Method of Closed Switchboards By Frequency Spectrum Analysis
Dae-won Park, Sun-jae Kim, Sang-gyu Cheon, Dong-hoan Seo, Gyung-suk Kil (Korea Maritime University)

P2-71 Basic Concept And Realization of Smart Power Transformer
Guan-jun Zhang (Xi'an Jiaotong University)

P2-72 Detecting Moisture in Transformer-oil Using Acoustic Signals of Partial Discharges
Giscard F. C. Veloso, Ismael Noronha, Luiz Eduardo Borges Da Silva, Germano Lambert Torres (Universidade Federal De Itajuba), Ronaldo Rossi (Universidade Estadual Paulista)

P2-73 Reproducibility of Dynamic Resistance Measurement Results of On-load Tap Changers ? Effect of Test Parameters
Jur Erbrink, Edward Gulski, Johan Smit (Delft University of Technology, The Netherlands), Rory Leich (Liandon, The Netherlands), Paul Seitz, Ben Quak (Seitz Instruments Ag, Switzerland)

P2-74 Pattern Recognition of The Factors Affecting The Reproducibility of Fra Measurements in Power Transformers
Juan Lorenzo Velasquez (Omicron Electronics Gmbh, Austria), Miguel Angel Sanz-bobi (Universidad Pontificia Comillas), Aradhana Ray (Omicron India), Alexander Kraetge (Omicron Electronics Gmbh, Austria)

P2-75 Identification of Transformer-specific Frequency Sub-bands As Basis for A Reliable And Automatic Assessment of Fra Results
Juan Lorenzo Velasquez (Omicron Electronics Gmbh, Austria), Miguel Angel Sanz-bobi (Universidad Pontificia Comillas, Madrid, Spain), Aradhana Ray (Omicron India), Alexander Kraetge (Omicron Electronics Gmbh, Austria), Jorge Pleite (Universidad Carlos Iii, Madrid, Spain)

P2-76 Electromagnetic Wave Propagation Characteristics Through Power Transformer Winding
Hyung Jun Ju, Sun Geun Goo, Kijun Park, Kisun Han, Jinyul Yoon (Korea Electric Power Research Institute,)

P2-77 Partial Discharge Signals Denoising Via Adaptive Filter
Mohammad Azizian Fard (Graduate Student), Asghar Akbari (Associated Professor), Reza Shojaee (Graduate Student)

P2-78 Partial Discharge Patterns Classification Using Neuro-fuzzy Inference System
Mohammad Azizian Fard, Asghar Akbari, Reza Shojaee (K.n. Toosi University of Technology)

P2-79 On-site Diagnosis of Abnormality of Transformer Winding By Frequency Response Analysis -diagnosis Without Initial Data-
Satoru Miyazaki, Yoshinobu Mizutani (Central Research Institute of Electric Power Industry), Kazumichi Matsumoto, Shinnichi Nakamura (Kyushu Electric Power Company)

P2-80 Dielectric Tests on Power Transformers By Means of Static Frequency Converters
Andreas Thiede, Thomas Steiner, Ralf Pietsch, Mario Jochim (Highvolt Pr)

P2-81 Charge Behavior in Palm Fatty Acid Ester Oil (pfae) / Pressboard Composite Insulation System Under Electrification Flow
Hikaru Saito, Tsutomu Nara (Nagoya University), Katsumi Kato (Niihama National College of Technology), Hiroki Kojima (Nagoya University), Hongjie Zheng, Hidenobu Koide (Japan Ae Power Systems Co.), Hitoshi Okubo (Nagoya University)

P2-82 A New Method of Winding Turn Determination for Windings of Power Transformers
Sebastian Schreiter, Peter Dr. Werle (Abb)

P2-83 Study on Characteristic Parameters of Air-gap Discharge in Transformer Oil-paper Insulation And Its Development Properties
Weigen Chen (State Key Laboratory of Power Transmission Equipment & System Security And New Technology,p.r.china), Xi Chen, Chao Wei, Jianfeng Yang

P2-84 An Integrated Multi-agent Based Condition Monitoring System for Power Transformer Insulation Monitoring
Reza Shojaee, Asghar Akbari, Mehdi Allahbakhshi, M. Azizian Fard (K.n. Toosi University of Technology, Tehran-iran)

P2-85 Sfra Analysis Using Transformer Equivalent Circuit Modeling Technique
Shubhangi S Patil, Venkatasami Athikkan (Crompton Greaves Limited)

P2-86 Partial Discharge, Electric Characteristics of Eco-friendly Outdoor Transformer Using PD Sensor
Eui Hwan Jung, Jae Hun Yoon, Seong Hun Cho, Kee Joe Lim (Chungbuk National University), Jong Hun Jeong, Pyung Jung Kim (Dongwoo Electric Corporation)

P2-87 Experience of On-site Partial Discharge Measurement on Ehv Power Transformer By Uhf Method
Chang-hsing Lee, Min-yen Chiu, Chih-hsien Huang, Ming-xuei Wu, Shih-hsiung Yen (Power System Diagnostic Service Company)

P2-88 Partial-discharge Source Location Using An Entire-domain Search Method
Tee G Tang (Queensland University of Technology), Jose Lopez-roldan (Powerlink Queensland)

P2-89 Partial Discharge Properties in Biodegradable Oil Impregnated Insulation
Wayan Ariastina (Udayana University), Toan Phung, Trevor Blackburn (The University of New South Wales)

P2-90 Simulation And Replication Experiment for A Novel Sensor Used for Transformers PD Uwb Rf Location System
Chang Wenzhi (Changwenzhi@hotmail.com), Tang Zhiguo, Li Chengrong, Wang Hao, Zheng Shusheng, Lu Ru

P2-91 Experimental Study on The Evolution Process of Partial Discharges on Oil-paper Insulation Under Dc Voltage
Wu Hao (Chengrong Li)Bo Yang

P2-92 Improving Recognition of Internal Partial Discharges of An Epoxy-paper Insulation of Transformers
Xiaolin Chen, Peter Morshuis, Qikai Zhuang, Dhiradj Djairam (Delft University of Technology), Zhongrong Xu (Smit Transformatoren Bv), Johan Smit (Delft University of Technology)

P2-93 Multi-parameters Condition Assessment Based on Integrated Condition Monitoring System for Power Transformers
Xu Zhao, Yongpeng Meng, Yonghong Cheng, Kai Wu (State Key Laboratory of Electrical Insulation And Power Equipment,xi'an Jiaotong Universiy), Hong Zhao, Jun Li (Qinghai Electric Power Corporation, Xining, Qinghai)

P2-94 The Influence of Water Content in Oil on Partial Discharge Development Process Occurred in The Inter-turn of Transformer Windings
Yuan Yang, Chengrong LiZhong Zheng, Guangmao Li, You Zhou (Beijing Key Laboratory of High Voltage & Emc, North China Electric Power University)

P2-95 Transformer Life Management By Condition-based Ranking
Sergey Zhivodernikov (Electrogridservice of Unified National Power System)

P2-96 Diagnostic Techniques Adopted for Transformer Health Assessment ? Case Study
Shubhangi S Patil, Venkatasami Athikkan (Crompton Greaves Limited)

P2-97 Accelerated Deterioration of High Voltage Bushings
William Malcolm Mcdermid (Manitoba Hydro)

P2-98 The Characteristics of The Impulse Input Module of Lvi Test System
Chae-hwa Shon, Kwang-hwa Kim, Sang-hwa Yi, Heun-jin Lee, Dong-sik Kang (Power Apparatus Research Center, Korea Electrotechnology Research Institute)

P2-99 Partial Discharge According To Iec 60270 Vs. Real Broadband Digital Measurement
Pavel Trnka, Josef Pihera, Pavel Prosr, Martin Sirucek (University of West Bohemia)

P2-100 Wireless On-line Monitoring System of Substation Based on Zigbee Technology
Tao Wang (School of Electrical Engineering,southwest Jiaotong University), Guangning Wu, Wen Debin, Du Peidong, Shen Hanlin

P2-101 Condition Monitoring & Diagnostics of Power Transformer Based on Dga And Electrical Tests
Bhaskar Dattatrey Malpure, Venkatasami Athikkan (Crompton Greaves Limited), Baburao Keshawatkar

P2-102 A Study on Multi-stress Monitoring System in Oil-filled Transformer Using Optical Fiber Sensors
Myong Hwan Kim (Hoseo University), Jong-kil Lee (Andong Nat'l University), Minho Song (Chunbuk Nat'l University), Tae Sik Cong, June-ho Lee (Hoseo University)

P2-103 Measurement of Partial Discharge Phenomena in Liquid Nitrogen Considering Different Types

of Sensors
Woo-ju Shin, Umer Amir Khan, Sang-hwa Lee, Ja-yoon Koo, Bang-wook Lee (Hanyang University)

P2-104 An Investigation on The Characteristics of Self Designed Chip Sensor Employable for Detecting The PD Pulses Occurring Inside Gas Insulated Transformer
In-jin Seo, Jae-keun Song (Smdt Lab, Hanyang University), Ja-yoon Koo (Hanyang University)

P2-105 Online Partial Discharge Detection on Power Apparatus Employing Uwb Method
Zhong Zheng (North China Electric Power University), Lin Ruan (Hubei Electric Power Test & Research Institute), Shengyou Gao (Tsinghua University), Junfeng Gui (Beijing Jiaotong University)

P2-106 Recent Progress And Future Perspective on Condition Monitoring of China Traction Supply Equipment in High-speed Railway
Guangning Wu, Peng Wang, Guoqiang Gao, Zhichao Ren (College of Electrical Engineering, Southwest Jiaotong University 610031, Chengdu, Sichuan, China)

Closing Ceremony
Friday September 10, 15:40-
Venue: Grand Lecture Room