

# Asia-Pacific Conference on Electrical Installation(APEI) (The 10th International Workshop) Program

August 22, 2012 10:00 ~ 15:50

Nagoya University (Liberal Arts & Sciences Main Building 2F S2X)

**Moderator;** Chairman of IEIEJ International Committee  
Takehiko Takahashi(Kanto Gakuin University)

**Chairman;** Isao Ito (Kandenko Co.,Ltd.)

## Oral presentation

APEI-1 (10:10 ~ 10:30)

The Influence to the Harmonics Voltages in the branch distribution system by the Static Capacitors in HV Consumers

○Mutsumi Aoki, Shinya Sekizaki, Tsukasa Honda, Hiroyuki Ukai  
Nagoya Institute of Technology

APEI-2 (10:30 ~ 10:50)

A study of over current protection in the High Voltage Direct Current (HVDC) distribution system

○Masatoshi Noritake, Tomohito Ushirokawa, Keiichi Hirose  
NTT Facilities, Inc.

APEI-3 (10:50 ~ 11:10)

The Characteristics of Frequency Spectrum from the Radiated Electromagnetic Waves according to Surface Discharge of Different solid dielectrics

○Eun-Hyeok Choi\*, Dong-Young Lim\*, Cheol-Ho Park\*\*, Ju-Bok Kim\*\*\*, Ki-Chai Kim\*, Kwang-Sik Lee\*

\* Yeungnam University

\*\* Hyeong-Jin Co.LTD

\*\*\* Korea Electric Company

APEI-4 (11:10 ~ 11:30)

Operational control using parallel processing method in micro grid

○Tomohito Ushirokawa\*, Keiichi Hirose\*, Kazuto Yukita\*\*, Katsuhiro ICHIYANAGI\*\*, Yoshiaki Okui\*\*\*

\* NTT Facilities, Inc

\*\* Aichi Institute of Technology

\*\*\* SANYO DENKI Co. LTD

APEI-5 (11:30 ~ 11:50)

Electric Vehicle Consumer Survey and Verification of Transformer Capacity for the Electric Vehicle Battery Charging in Rental Apartments

○Kihong Lee\*, Wanhee Byun\*\*, Hoyoung Kee\*\*, Myeong soo Kim\*\*\*

\* Construction Technology Dept, Land & Housing Institute

\*\* Urban Planning & Architecture Dept, Land & Housing Institute

\*\*\* Korea Land & Housing Corporation

APEI-6 (13:00 ~ 13:20)

Demand Side Management Using a Battery-Equipped Quick Charger for Electric Vehicles

○ Toyonari Shimakage\*, Kojiro Nishioka\*\*, Takaaki Kikuchi\*\*, Masashi Baba\*, Hiroshi Yamane\*

\* R&D Headquarters, NTT Facilities, Inc.

\*\* Energy Business Headquarters, NTT Facilities, Inc.

APEI-7 (13:20 ~ 13:40)

The application of pulse waveform identification on partial discharge location for cast-resin transformer

○ Chang-Hsing Lee\*, Min-Yen Chiu\*, Chih-Hsien Huang\*, Shih-Song Yen\*\*

\* Power Diagnostic Service Co., Ltd.

\*\* Industrial Technology Research Institute

APEI-8 (13:40 ~ 14:00)

Assess Breakdown Characteristics of Surface Discharge according to the Different solid dielectrics in Dry-Air

○ Eun-Hyeok Choi, Sang-Wook Lee, Sung-Gyu Park, Kwang-Sik Lee  
Yeungnam University

APEI-9 (14:00 ~ 14:20)

Induced lightning effects for controller of overhead line re-closer in MV distribution power system

○ Young Sung Kim\*, Tae-Hoon Jeong\*, Sung-Pill Nam\*, Jae-Chul Kim\*\*

\* Korea Electrotechnology Research Institute

\*\* Soongsil University

APEI-10 (14:30 ~ 14:50)

Transient Circuit Analysis of Lightning Surge Propagation in Household Wiring

○ Shinji Yasui, Taisuke Okumura

Nagoya Institute of Technology

APEI-11 (14:50 ~ 15:10)

Effects of Potential Interferences between Ground Electrodes on the Resultant Ground Impedance

○ Hee-Kyung Shin, Sung-Chul Cho, Gun-Jin Shin, Hee-Yeoul Park, Gwan-Young Bae,  
Chang-Hoon Seong, Bok-Hee Lee

Inha University

APEI-12 (15:10 ~ 15:30)

A Study on Suppressing Common-mode Currents from Inverters

○ Takashi TSUCHIDA

KANDENKOCo.,Ltd

APEI-13 (15:30 ~ 15:50)

The World's Smallest 60-Ton Crane Used for the Largest Cyclotron

○ Tadashi FUJINAWA, Kenichi SHIRAISHI

RIKEN RI Beam Factory