

**Technical Program**  
**Tuesday, May 5, 2009**  
**Morning Session 1 - Stephen Room A&B**

**Energy Systems Committee**  
*Session Organizer: Wei-Jen Lee*  
*Session Chair: Wei-Jen Lee*

<u>Time</u>	<u>Paper Title &amp; Author(s)</u>
8:00am	Introduction and Announcements
8:05am	“Design of PLC based identifier to support transformer load management in Taipower”, <b>C. S. Chen</b> , <i>T. T. Ku, C.H. Lin</i> [2008-ESC-247]
8:55am	“Electronic Ballasts Driven by Hybrid Source Using Microprocessor-Controlled Digital Switching Technique”, <b>Ying-Chun Chuang</b> , <i>Hung-Shiang Chuang, Yu-Lung Ke, Mu-Lin Chou</i> [2008-ESC-248]
<b>9:40am - 10:00am: BREAK</b>	
10:00am	“Implementation of High Efficiency Battery Charger with Zero-Voltage-Transition Pulse-Width-Modulated Boost Converter”, <b>Yu-Lung Ke</b> , <i>Ying-Chun Chuang, Mu-Shi Chen</i> [2008-ESC-249]
10:50am	“Impact of Building Automation, Controls and Building Management on Energy Performance of Lighting Systems”, <b>Giuseppe Parise</b> , <i>Luigi Martirano</i> [2008-ESC-250]
<b>11:45am - 1:00pm LUNCH BREAK</b>	

**Afternoon Session 3 – Stephen Room A&B**

**Energy Systems Committee**  
*Session Organizer: Wei-Jen Lee*  
*Session Chair: Joseph Weber*

<u>Time</u>	<u>Paper Title &amp; Author(s)</u>
1:00pm	Introduction and Announcements
1:05pm	“Minimization of Energy Storage Requirements for a Mixed Renewable System with Demand-Side Management”, <b>Anibal T. de Almeida</b> , <i>Pedro Moura</i> [2008-ESC-251]
1:55pm	“Analysis of a Commercial Wind Farm in Taiwan Part I: Measurement Results and Simulations”, <b>Li Wang</b> , <i>Tai-Her Yeh, Wei-Jen Lee, Zhe Chen</i> [2008-ESC-252]
<b>2:40pm - 3:00pm: BREAK</b>	
3:00pm	“Analysis of a Commercial Wind Farm in Taiwan Part II: Effects of Variable Current-Limit Reactors and Load Tap Changers”, <b>Li Wang</b> , <i>Tai-Her Yeh, Wei-Jen Lee</i> [2008-ESC-253]
3:50pm	“Multi-Region Short-term Load Forecasting in Consideration of Heat Index and Load/Weather Diversity”, <b>Wen-Chen Chu</b> , <i>Yi-Ping Chen, Zheng-Wei Xu, Wei-Jen Lee</i> [2008-ESC-254]
<b>4: 35 pm : Get Ready to board the bus for the Social Evening</b>	

**Technical Program**  
**Tuesday, May 5, 2009**  
**Morning Session 2 – Doll/Herald Rooms**

***Power System Protection Committee***

*Session Organizer: Rasheek Rifaat*

*Session Chair: Rob Hoerauf*

**Paper Title & Author(s)**

- 8:00am Introduction and Announcements
- 8:05am “Lessons Learned from Generator Tripping Events at Industrial Facilities”,  
**Charles Mozina** [2008-PSPC-245]
- 8:55am “Power Systems Protection in an Oil Field Distribution System”, **Xiaodong Liang, Jeffrey Lim** [2008-PSPC-228]

**9:40am - 10:00am: BREAK**

- 10:00am “Selectivity Analysis in Power Distribution Systems with Fuses and Circuit Breakers”, **Marcelo Valdes** Cindy Cline, Steve Hansen, Tom Papallo [2008-PSPC-224]
- 10:50am “Method for Determining Selective Capability of Current-Limiting Overcurrent Devices Using Peak-Let-Through Current”, **Marcelo Valdes**, Andrew Crabtree, Tom Papallo [2008-PSPC-225]

**11:45am – 1:00pm LUNCH BREAK**

**Afternoon Session 4 – Doll/Herald Rooms**

***Power System Engineering Committee***

*Session Organizer: Andrew Hernandez*

*Session Chair: JJ Dai*

**Paper Title & Author(s)**

- 1:00pm Introduction and Announcements
- 1:05pm “Stability Analysis of High-Power DC Grids”,  
**Florian Mura** Christophe Meyer, Rik De Doncker [2008-PSEC-268]
- 1:55pm “Generator Capability Study for Offshore Oil Platform”,  
**Peter Sutherland** [2008-PSEC-269]

**2:40pm - 3:00pm: BREAK**

- 3:00pm “Genetic Code of Electrical Operational Procedures: lockout Systems, Simulators and Training”  
**Giuseppe Parise**, Erling Hesla, Rasheek Rifaat [2008-PSEC-271]
- 3:50pm “Closer look at shore-to-ship power supply grounding”,  
**Dev Paul**, B. Chavdarian [2008-PSEC-275]

**4: 35 pm : Get Ready to board the bus for the Social Evening**

**Technical Program**  
**Wednesday, May 6, 2009**  
**Morning Session 5 - Stephen Room A&B**

***Power System Protection Committee***

*Session Organizer:* Rasheek Rifaat

*Session Chair:* Chuck Mozina

<b><u>Time</u></b>	<b><u>Paper Title &amp; Author(s)</u></b>
8:00am	Introduction and Announcements
8:05am	“Experience with 100% Stator Ground Fault Protection Schemes”, <b>Chuck Mozina</b> [2008-PSPC-246]
8:55am	“Design of a High-Speed Motor Bus Transfer System”, <b>Murty Yalla</b> [2008-PSPC-227]

**9:40am - 10:00am: BREAK**

10:00am	“Add Trip Security to Arc Flash Detection for Safety and Reliability”, <b>Mark Zeller</b> , Gary Scheer [2008-PSPC-241]
10:50am	“The 2008 Revision of IEEE C37.2 Standard for Electrical Power System Device Function Numbers, Acronyms, and Contact Designations”, <b>John T. Tengdin</b> [2009-PSPC-027]

**11:45am - 2:00pm AWARDS LUNCHEON**

**Afternoon Session 7 - Stephen Room A&B**

***Energy Systems Committee***

*Session Organizer:* Joseph Weber

*Session Chair:* Wei-Jen Lee

<b><u>Time</u></b>	<b><u>Paper Title &amp; Author(s)</u></b>
2:00pm	Introduction and Announcements
2:05pm	“Mexican Refineries Upgrading of the Electrical Power System” <b>L.I. Ruiz</b> , J. Garcia, A. Garcia, G. Taboada [2008-PSEC-276]

**2:50pm – 3:10pm BREAK**

3:10pm	“Enabling Customer Demand and Budget Management in the Real-Time Pricing Environment”, <i>Supun Tiptipakorn</i> , <b>Wei-Jen Lee</b> , <b>Li Wang</b> [2008-ESC-255]
4:00pm	“Analysis of commutation torque ripple using different PWM modes in BLDC Motor”, <b>H.S. Chuang</b> , Yu-Lung Ke, Ying-Chun Chuang, [2008-ESC-256]

**Technical Program**  
**Wednesday, May 6, 2009**  
**Morning Session 6 – Doll/Herald Room A/B**

***Power System Engineering Committee***

*Session Organizer: Andrew Hernandez*

*Session Chair: Bill Braun*

**Paper Title & Author(s)**

- 8:00am Introduction and Announcements
- 8:05am “Safe Working Practices near Overhead Lines”, ***Erling Hesla*** [2008-PSEC-270]
- 8:55am “Assessment of transmission line common mode, station originated and fault types forced outage rates”, ***Don Koval***, A.A. Chowdhury [2008-PSEC-273]

**9:40am - 10:00am: BREAK**

- 10:00am “Quantitative/ adequacy assessment of transmission systems”, A.A. Chowdhury, ***Don Koval*** [2008-PSEC-274]
- 10:50am “Sub-sea Cables Application in Electrical Submersible Pump Systems”, ***Xiaodong Liang***, S.O. Faried [2008-PSEC-272]

**11:45am - 2:00pm AWARDS LUNCHEON**

**Afternoon Session 8 – Doll/Herald Room A/B**

***Codes and Standards Committee***

*Session Organizer: Bill Anderson*

*Session Chair: Bill Anderson*

**Paper Title & Author(s)**

- 2:00pm Introduction and Announcements
- 2:05pm Standards for Super-Premium Efficiency Class for Electric Motors”  
Anibal T. de Almeida [2009-CSC-035]

**2:50pm – 3:10pm BREAK**

**Panel Session – Doll/Herald Room A/B**

***Power Systems Engineering***

*Session Organizer: Thomas Baldwin*

*Session Chair: Saad Malik*

- 3:10pm Grounding Practices Panel Discussion “Concrete Encapsulated Electrodes”  
part 1 *Thomas Baldwin, Saad Malik, Rasheek Rifaat, George Morlidge*
- 4:00pm Grounding Practices Panel Discussion “Concrete Encapsulated Electrodes”  
part 2 *Thomas Baldwin, Saad Malik, Rasheek Rifaat, George Morlidge*