

I&CPS 2005 Conference in Saratoga Spings, May 8 -11

Technical Program

Tuesday May 10, Morning Session 1 - Alydar Room

Power System Engineering Committee
Session Organizers: Jim Harvey & Bill Braun
Session Chairs: Jim Harvey & Bill Braun

Time	Paper Title & Author(s)
8:00am	Introduction and Announcements
8:05am	"Reactive Power Compensation for Voltage Control at Resistance Welders", Tom Baldwin , Tim Hogans, Shawn Henry, Frank Renovich, Jr., Peter Latkovic [ICPS-05-1]
8:55am	"A novel Power-Factor-Correction Circuit with High-Frequency Resonant Energy Tank for DC-Link Inverter", Ying-Chun Chuang, Yu-Lung Ke [ICPS-05-2]

9:40am - 10:00am: BREAK

10:00am	"Rule-Expert Knowledge-Based Petri Net Approach for Distribution System Feeder Reconfiguration", Yu-Lung Ke [ICPS-05-3]
10:50am	"Impact of Photovoltaic Power Sources on a Power System's Capacity Reliability Levels", A.A. Chowdhury, D. O. Koval [ICPS-05-4]

11:45am - 1:00pm LUNCH BREAK

Tuesday May 10, Morning Session 2 - Citation Room

Power System Protection Committee
Session Organizer: Carey Cook
Session Chair: Rasheek Rifaat

Time	Paper Title & Author(s)
8:00am	Introduction and Announcements
8:05am	"Application of Inlanding Protection for Industrial and Commercial Generators - Working Group Report", Gerald Dalke, WG Chair [ICPS-05-5]
8:55am	"How to Nuisance Trip Distributed Generation", Wayne Hartmann, Chuck Mazina [ICPS-05-6]

9:40am - 10:00am: BREAK

10:00am	"Motor Bus Transfer: Considerations & Methods", Thomas Beckwith, Wayne Hartmann, Chuck Mazina [ICPS-05-7]
10:50am	"Differences in Low-Voltage Fused and Unfused Power Circuit Breakers", Steven Hinton [ICPS-05-8]

11:45am - 1:00pm LUNCH BREAK

Tuesday May 10, Afternoon Session 3 - Alydar Room

Codes & Standards Committee
Session Organizer: Daleep Mohla
Session Chair: Daleep Mohla

Time	Paper Title & Author(s)
1:00pm	Introduction and Announcements
1:05pm	"Arc Flash Hazard : The Simplified Model of Arc Current", Giuseppe Parise , Luigi Martirano [ICPS-05-9]
1:55pm	"Electrical Design - Refined for Safety", Ben McClung , Daleep Mohla, Bruce McClung [ICPS-05-10]

2:40pm - 3:00pm: BREAK

3:00pm	"The Lightning Protection of a Complex of Structures (LPCS)", Giuseppe Parise , Luigi Martirano [ICPS-05-11]
3:50pm	"Mitigating of Flash Hazards in Typical Small Industrial Machines", Bill Anderson [ICPS-05-12]

Tuesday May 10, Afternoon Session 4 - Citation Room

Energy Systems & Power System Engineering Committees
Session Organizers: Greg Nolan & Peter Sutherland
Session Chairs: Wei-Jen Lee & Peter Sutherland

Time	Paper Title & Author(s)
1:00pm	Introduction and Announcements
1:05pm	"Integration of ANN Wind Power Estimation into UC Considering Forecasting Uncertainty", K. Methaprayoon, C. Yingvivatanapong, Wei-Jen Lee , James Liao [ICPS-05-13]
1:55pm	"Artificial Neural Network Based On-line Partial Discharge Monitoring System for Motors", Wei-Jen Lee , Hemiao Zhang, Chiman Kwan, Zhubing Ren, Honda Chen, Joseph Sheeley [ICPS-05-14]

2:40pm - 3:00pm: BREAK

3:00pm	"Load Profile Synthesis and Wind Power Generation Prediction for an Isolated Power System", M. S. Kang , C.S. Chen, Y.L. Ke, C.H. Lin, C.W. Huang [ICPS-05-15]
3:50pm	"Analytical Modelling of HVDC Transmission System Converter using Matlab/Simulink", Rajiv Kumar , Thomas Leibfried [ICPS-05-16]

Wednesday May 11, Morning Session 5, Room: Alydar

Power System Engineering Committee
Session Organizer: Darin Hucul
Session Chair: Darin Hucul

Time	Paper Title & Author(s)
8:00am	Introduction and Announcements
8:05am	"Advanced Language for Programming Clearing Procedures in Electrical Installations", Giuseppe Parise , Erling Hesla [ICPS-05-17]
8:55am	"Dalziel Revisited: A Study of the Electrical Parameters Affecting Ventricular Fibrillation", Robert E. Nabours [ICPS-05-18]

9:40am - 10:00am: BREAK

10:00am	"Human Current Sensitivities and Resistance Values in the Presence of Electrically Energized Objects", Peter Sutherland , Doug Dorr, Krish Gomatom [ICPS-05-19]
10:50am	"Lightning Protection Analysis of Light Rail Transit DC Overhead Contact System", Dev Paul [ICPS05-20]

11:45am - 2:00pm AWARDS LUNCHEON

Wednesday May 11, Morning Session 6, Room: Citation

Power System Engineering Committee
Session Organizers: Elliot Rappaport & Chris Melhorn
Session Chairs: Elliot Rappaport & Chris Melhorn

Time	Paper Title & Author(s)
8:00am	Introduction and Announcements
8:05am	"Power Quality Assessment of Distributed Generator Grounding Method", Peter Sutherland , Tom Short, Keith McAllister [ICPS-05-21]
8:55am	"Protective bonding conductors: an IEC point of view", Massimo Mitolo [ICPS-05-22]

9:40am - 10:00am: BREAK

10:00am	"Common Grounding System", F. M. Gatta, S. Laura, Giuseppe Parise [ICPS-05-23]
10:50am	"Measurement of Touch and Step Voltages Adopting Current Auxiliary Electrodes at Reduced Distance", Giuseppe Parise , M. Luncheroni [ICPS-05-24]

11:45am - 2:00pm AWARDS LUNCHEON

Wednesday May 11, Morning Session 7, Room: Alydar

Committee: Power System Engineering
Session Organizer: Bill Braun
Session Chair: Bill Braun

Time	Paper Title & Author(s)
2:00pm	Introduction and Announcements
2:05pm	"Reliability and Availability Data Collection Program for Power Distribution, Power Generation, and HVAC Components of Commercial, Industrial, and Utility Installations" - Paper & Panel Discussion, Peyton Hale, Jr., Robert Arno , David Dylis [ICPS-05-25]

3:40pm - 4:00pm BREAK

4:00pm	"Development of Probabilistic Models for Computing Optimal Distribution Substation Spare Transformers", A.A. Chowdhury, D. O. Koval [ICPS-05-26]
--------	---

Wednesday May 11, Morning Session 8, Room: Citation

Committee: Power System Protection
Session Organizer: Rasheek Rifaat
Session Chair: Carey Cook

Time	Paper Title & Author(s)
2:00pm	Introduction and Announcements
2:05pm	"The Influence of Cable Connections on TVSS Performance", Eric Marshall, James Britton, Mel Hander, Terri Jones, Bryce McIntyre, Marcelo Valdes , Johnny Whitehead [ICPS-05-27]
2:55 PM	"Benefits of Upgrading Protection Schemes for Hydroelectric Power Plants", S.A. Wright, A. Kanagala, M. Sahni, Wei-Jen Lee , R. Kenarangui, H.F. Threlkeld, M.A. Martinez [ICPS-05-28]

3:40pm - 4:00pm BREAK

4:00pm	"Enhanced Selectivity and Protection via Modern Current-Limiting Circuit Breakers", Marcelo Valdes , John Hill, Tim Richter, Mike Tobin [ICPS-05-29]
--------	---