



**THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.**

**INDUSTRY APPLICATION SOCIETY  
Industrial and Commercial Power Systems Department**

**I&CPS Technical Conference, May 5-8, 2002  
Savannah Desoto Hilton Hotel, Savannah, GA USA**

**CONFERENCE AT A GLANCE (PRELIMINARY)**

**5 MAY 2002 (SUNDAY)**

**REGISTRATION**

Noon-5p Conference Registration & Information

**COMMITTEE MEETINGS**

7:30a-5p IAS Executive Committee  
1p-5p PSP Gen Grounding & GFP WG  
4p-6p PSE Executive Committee  
5p-7p PSPC Executive Subcommittee

**SOCIAL ACTIVITIES**

5p-7p Welcome Reception  
7p-8p Dessert Reception (Sponsored by Cooper Power Systems)  
7p-9p IAS Executive Committee Dinner

**6 MAY 2002 (MONDAY)**

**REGISTRATION & HOSPITALITY**

7a-5p Conference Registration & Information  
7:30a-5p Hospitality Room  
10a-2p Companion Tour: Historic Savannah (incl. lunch)

**COMMITTEE MEETINGS**

7:30a-5p IAS Executive Committee  
8a-10a PSE Forensics WG  
8a-9a PSE Grounding Sub Committee  
8a-9a PSP Molded Case Ckt Brk WG  
8a-9a PSE Equipment Reliability WG  
8a-9a PSE White Book WG  
9a-10:30a PSP Blue Book WG  
9a-10a PSE Green Book WG  
9a-10a PSE Harmonics WG  
9a-10a PSE Red Book WG  
9a-10a PSE Reliability Analysis Tech. WG  
10a-Noon PSE Clean Room WG  
10a-11a PSE Yellow Book WG  
10a-11a PSE Voltage Sag WG  
10a-11a PSE Brown Book WG  
10a-11a PSE Gray Book WG  
10:30a-11a PSP Low Voltage Protection SC  
11a-Noon PSE Safety Operation & Maint SC  
11a-Noon PSP Islanding Protection WG  
11a-Noon PSE Gold Book WG  
11a-Noon PSE Power System Analysis SC  
11a-Noon PSE Emerald Book WG  
Noon-1p PSE Technical Program Committee  
1p-3p PSP Testing of Digital Relay WG  
1p-3p PSE Power System Reliability SC  
1p-2p PSE Power System Design SC  
1p-2p PSE Orange Book WG  
1p-2p ES Bronze Book WG  
1p-2p Awards & Recognition Committee



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**CONFERENCE AT A GLANCE (PRELIMINARY)**

2p-4p	Codes & Standards Committee
2p-3p	PSE Emergency & Standby Power Sys
3p-4p	Tech Books Coordinating Committee
3p-3:30p	PSP Protection & Coordination SC
3p-3:30p	ES Utility Deregulation SC
3:30p-4p	ES Protect/Monitor/Control Integration
3:30p-4p	PSP Power Quality SC
4p-6p	Power System Engineering Committee
4p-5p	ES Energy System Committee
4p-5p	Meetings Committee
4p-4:30p	PSP Med Voltage Protection SC
4:30p-6p	Power System Protection Committee

**SOCIAL ACTIVITIES**

6p-7p	Tour of Riverstreet Power Plant
7p-9p	Open. Eat and/or Shop on Historic Riverstreet at your convenience. Free Trolley to take you back to the hotel at regular intervals.

**7 MAY 2002 (TUESDAY)**

**REGISTRATION & HOSPITALITY**

7a-5p	Conference Registration & Information
7a-8:30a	Author Breakfast
7:30a-5p	Hospitality Room
8a-5p	Author Prep Room
10a-Noon	Companion Tour: Midnight in the Garden of Good & Evil

**COMMITTEE MEETINGS**

3p-5p	I&CPS Dept Operating Committee
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**TECHNICAL PRESENTATIONS:**

	Committees: Energy Systems & PSE, Engr. SC Chair:	Committee: Power Systems Engineering Chair: Dr. Mark Halpin
8a-8:05a	Introduction & Announcements	Introduction & Announcements
8:05a-8:50a	I&CPS-02-1: Intelligent Tuning of the 2-DOF PID Controller on the DCS for Steam Temperature Control of a Thermal Power Plant (Dong Hwa Kim, H.W. Pyo)	EMERALD BOOK TUTORIAL
8:55a-9:40a	I&CPS-02-2: Cogeneration Plant for National Institutes of Health Will Boost Fuel Efficiency and Cut Emissions (R. Jafari, F. Memarzadeh)	
10a-10:45a	I&CPS-02-3: Design of Capacitor Bank Early Warning System (W-J. Lee)	EMERALD BOOK TUTORIAL
10:50a - 11:35a	I&CPS-02-4: An Investigation of 18 and 16 Gauge AWG Conductors for Use in Industrial Machinery Built to NFPA 79-2002 (T. Lottmann, J. Schomaker)	
11:35a-1p	LUNCH BREAK	



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	Committee: PSE Engineering SC Chair:	Committee: PSE Reliability SC Chair: Dr. Don Koval
1p-1:05p	Introduction & Announcements	Introduction & Announcements
1:05p-1:50p	I&CPS-02-5: 277 Volt Safety Issues (M. Capelli-Schellpfeffer, H. Wolfman)	I&CPS-02-9: Spreadsheet Reliability Model Applied to the Gold Book Standard Network (J.Propst, D. Koval, X. Zhang)
1:55p-2:40p	I&CPS-02-6: DC Distribution for Industrial Systems: Opportunities and Challenges (M. Baran, N. R. Mahaja)	I&CPS-02-10: Go/Ramp Reliability Technique Applied to the Gold Book Standard Network (R.G. Arno, P.S. Hale)
3p-3:45p	I&CPS-02-7: Conceptual Arc Modeling and Comparison of Arc Energy and Arc Damage by Conventional and Recommended Methods (T. Gammon)	I&CPS-02-11: Minimum Cut Set Technique Applied to the Gold Book Standard Network (T.J. Coyle)
3:50p-4:35p	I&CPS-02-8: Emergency Generator Start-Up Study for a Nuclear Generation Facility (J. Dai, F. Shokooh, D. Xiao)	I&CPS-02-12: A Reliability Analytical Technique Applied to the Gold Book Standard Network (W. Wang)

**SOCIAL ACTIVITIES**

2p-4p                      Tour of Flight Safety International  
6p-10p                    Cocktails, Dinner, and Haunted Trolley Tour

**8 MAY 2002 (WEDNESDAY)**

**REGISTRATION & HOSPITALITY**

7a-8:30a                 Author Breakfast  
7:30a-5p                 Hospitality Room  
8a-5p                     Author Prep Room  
11:45a-2p                Awards Luncheon

**COMMITTEE MEETINGS**

none

**TECHNICAL PRESENTATIONS:**

	Committee: Power System Protection Chair: N. Terry Stringer	Committee: Codes and Standards Chair: Mel Sanders
8a:8:05a	Introduction & Announcements	Introduction & Announcements
8:05a-8:50a	I&CPS-02- 13 A Standard Format for Power System Studies II Reliability, Harmonic and Stability Studies (P.E. Sutherland, R.G. Irvine, L. Smith, Jr.)	CODE PANEL
8:55a-9:40a	I&CPS-02-14: Power Engineering Effective Solution Triangle: Customer-Consultant-Manufacturer (W.J. Moylan, J. Corkran, C.P. McShane)	
10a-10:45a	I&CPS-02- 15:Test for Series Connected Circuit Breakers (G.D. Gregory, W. Stoppelmoor)	CODE PANEL
10:50a-11:35a	I&CPS-02- 16: Advances in Generator Field Ground Protection Using Digital Technology (C. J. Mozina)	



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11:45a-2p	AWARDS LUNCHEON		
	Committee: Power System Protection Chair: N. Terry Stringer	Committee: Chair:	
2p-2:05p	Introduction & Announcements		Introduction & Announcements
2:05p-2:50p	I&CPS-02-17 Robust Algorithms for High Speed Voltage Sag and Swelling Detection (W-J. Lee)	I&CPS-02-20: Earthing - Grounding Methods: A Primer (D. Zipse)	
3:10p-3:55p	I&CPS-02-18: Distributed Generation, Part 1 (J. Daly)	I&CPS-02-21: Reliability Model for High Voltage Synchronous Machines (E. Olsson)	
4p-4:45p	I&CPS -02-19: Distributed Generation, Part 2 (J. Daly)	I&CPS-02-22: Lightning Protection and Grounding Review of a Municipal Trolley (D. Hucul, Martyn, Geake)	