

Session One**Dogwood Room****Thursday Morning**

Sponsor Committee: Power Systems Engineering Committee

Session Organizer: Dr. Masimo Mitolo

Session Chair: Dr. Massimo Mitolo

	Paper Title	Corresponding Author	Email
8:00 - 8:35	Ground Fault-Loop Impedance Calculations in Single-Phase Systems	Massimo Mitolo	mitolo@ieee.org
8:35 - 9:10	Considerations in Wind Farm Grounding Design	Rob Hoerauf	robhoerauf@earthlink.net
9:10 - 9:45	Design and analysis of the energetic impact of a light control system	Giuseppe Parise	Giuseppe.Parise@uniroma1.it

9:45 - 10:15

Coffee Break

10:15 - 10:50	Seismic qualification of electrical equipment in critical facilities	Giuseppe Parise	Giuseppe.Parise@uniroma1.it
10:50 - 11:25	AC DC power circuits design by microsystem criteria	Giuseppe Parise	Giuseppe.Parise@uniroma1.it
11:25 - 12:00	Unprotected faults of electrical cords and extension cords in AC and DC systems	Giuseppe Parise	Giuseppe.Parise@uniroma1.it

12:00 - 13:30

Lunch**Session Two****Willow Room****Thursday Morning**

Sponsor Committee: Power Systems Protection/Energy Systems/Code and Standards

Session Organizer: Rob Hoerauf

Session Chair: Steve Townsend

	Paper Title	Corresponding Author	Email
8:00 - 8:35	A Novel Control Strategy of Circulating Currents in Paralleled Single-Phase Boost Converters for Micro-Grid Applications	Yi-Hung Liao	yhlmliao@gmail.com
8:35 - 9:10	An Analytical Quantification of Errors Due to the Use and Misuse of Cable Positive-Sequence Impedances Provided by the NEC	Peman Montazemi	pmontazemi@ieee.org
9:10 - 9:45	Power Budgeting between Diversified Energy Sources and Loads using a Multiple-Input Multiple-Output DC-DC Converter	Ali Davoudi	Davoudi@uta.edu

9:45 - 10:15

Coffee Break

10:15 - 10:50	Stator Thermal Time Constant	Jon Steinmetz	jon_steinmetz@selinc.com
10:50 - 11:25	Considerations for Using High-Impedance or Low Impedance Relays for Bus Differential Protection	Ken Behrendt	ken_behrendt@selinc.com
11:25 - 12:00	Short-Circuit Current Ratings of Equipment	Daniel R Neeser	Dan.Neeser@CooperIndustries.com

12:00 - 13:30

Lunch

Session Three**Dogwood Room****Thursday Afternoon**

Sponsor Committee: Energy Systems Committee

Session Organizer: Joe Weber

Session Chair: Wei-Jen Lee

	Paper Title	Corresponding Author	Email
13:30 - 14:05	Design of Passive Harmonic Filters for Variable Frequency Drives on Ships to Increase Energy Efficiency	Chun-Lien Su	cls@webmail.nkmu.edu.tw
14:05 - 14:40	An Energy-Savings Evaluation Method for Adjustable-Frequency Drives on Sea Water Cooling Pumps on Ships	Chun-Lien Su	cls@webmail.nkmu.edu.tw
14:40 - 15:15	Efficiency Measurement and Limits of Super-Premium Motors – Line-Start and VSD-Fed Permanent Magnet and Reluctance Synchronous Motors	Anibal T. de Almeida	adealmeida@isr.uc.pt

15:15 - 15:45

Coffee Break

15:45 - 16:20	Improve the Energy Efficiency of Hydraulic System by Using High Performance Hydraulic Fluids	Franklin L. Quilumba	quigufrale@ieee.org
16:20 - 16:55	A Novel Single-Switch Resonant Power Converter for Renewable Energy Generation Applications	Ying-Chun Chuang	chuang@mail.ksu.edu.tw

Session Four**Willow Room****Thursday Afternoon**

Sponsor Committee: Power Systems Protection Committee

Session Organizer: Rob Hoerauf

Session Chair: Rob Hoerauf

	Paper Title	Corresponding Author	Email
13:30 - 14:05	Adaptive Relay Setting for Distribution Systems Considering Operation Scenarios of Wind Generators	C. S. Chen	yenchen@isu.edu.tw
14:05 - 14:40	Upgrading Relays? - Be Prepared.	Dan Ransom	danielransom@basler.com
14:40 - 15:15	Switching and Protection of Multiple Transformer Arrangement in Industrial Distribution System	Rasheek Rifaat	rasheek.rifaat@jacobs.com

15:15 - 15:45

Coffee Break

15:45 - 16:20	Why Upgrade the Protection and Grounding of Generators at Petroleum and Chemical Plants	Chuck Mozina	cmozina@aol.com
16:20 - 16:55	Adjustable Speed Drive Motor Protection Applications and Issues	Thomas Farr	thomasafarr@eaton.com

Session Five (8:00 - 9:45)**Dogwood Room**

Sponsor Committee: Power Systems Engineering Committee
 Session Organizer: Dr. Massimo Mitolo
 Session Chair: Mr. Kent Saylor

Friday Morning

	Paper Title	Corresponding Author	Email
8:00 - 8:35	Grounding for 21st Century Data Centers	Robert Schuerger	bschuerger@hp.com
8:35 - 9:10	Bus Split Algorithm for Aggregation of Induction Motors and Synchronous Motors in Dynamic Load Modeling	Xiaodong Liang	XLiang2@slb.com
9:10 - 9:45	Frequency Response Analysis for Phase-Shifting Transformers in Oil Field Facilities	Xiaodong Liang	XLiang2@slb.com

9:45 - 10:15 **Coffee Break****Session Six/Panel Discussion (8:00 - 9:45)****Willow Room**

Sponsor Committee: Power Systems Protection Committee
 Session Organizer: Rob Hoerauf
 Panel Session Moderator: Erling Hesla
 Title: [Design Considerations for DC Distribution and Controls](#)

Friday Morning

	Paper Presentation	Corresponding Author	Email
8:00 - 8:35	Economics of DC Power Distribution for Motors	Erling Hesla	erling.hesla@wavecable.com
8:35 - 9:45	Panel Discussion	Panel Member	Email/Affiliation
	Power conversion units for residential-size loads	Barry Brusso	bbrusso@sandc.com
	Equipment available today	Tom E. Johnson	TomEJohnson@eaton.com
	Consideration of Code and economic requirements	Ed Larsen	ed.larsen@ieee.org
	Relationship with IEC practices and standards	Giuseppe Parise	Giuseppe.Parise@uniroma1.it

9:45 - 10:15 **Coffee Break**

Session Seven/Panel Discussion (10:15 - 12:00)**Dogwood Room****Friday Morning**

Sponsor Committee: Codes and Standards Committee

Session Organizer:

Panel Session Moderator: Daleep Mohla

Title: [Key Changes Included in the First Draft of NFPA 70E 2015](#)

	Paper Presentation	Corresponding Author	Email
10:15 - 10:50			
10:50 - 12:00	Panel Discussion	Panel Member	Email/Affiliation
	Title #1	Carey Cook	
	Title #2	Dennis Neitzel	
	Title #3	Tammy Gammon	

Session Eight/Panel Discussion (10:15 - 12:00)**Willow Room****Friday Morning**

Sponsor Committee: Power Systems Engineering Committee

Session Organizer: Massimo Mitolo

Panel Session Moderator: Jim Harvey

Title:

	Paper Presentation	Corresponding Author	Email
10:15 - 10:50	Rightsizing Electrical Power Systems in Large Commercial Facilities	Michael A. Anthony	maanthon@umich.edu
10:50 - 12:00	Panel Discussion	Panel Member	Email/Affiliation
		Mark Early	
		Casey Grant	
		Erling Hesla	

12:00 - 14:00

Awards Banquet

Friday Afternoon
14:00 - 17:00

Tutorial One

Tuition:\$\$\$

Dogwood Room

Title: A Practical Cyber Security Implementation Strategy for Advanced I&CPS Control Technologies

Name	Affiliation	Email
Earl Eiland	TUV America	EEiland@tuvam.com

Friday Afternoon
14:00 - 17:00

Tutorial Two

Tuition:\$\$\$

Willow Room

Title: Seamless Integration of Wind Generation

Name	Affiliation	Email
Wei-Jen Lee	U of Texas at Arlington	wlee@uta.edu