

SATURDAY, SEPTEMBER 17, 2011

3:00 pm – 5:00 pm Registration Open..... Atrium Lobby

SUNDAY, SEPTEMBER 18, 2011

7:00 am – 7:00 pm Registration Open..... Atrium Lobby

Tutorials Group 1 • 8:30 am – 12:00 pm

Russell	Ellis West	Cowboy Artists	Ellis East	Cassidy	Curtis
T1-1 Practical Aspects in Modern Design Process of Electric Motors	T1-2 Understanding of Electrical Concepts in Wind Turbines and Photovoltaic Arrays	T1-3 Carrier Based PWM Methods For AC-DC-AC and AC-AC Power Conversion Systems	T1-4 Reliability of IGBT Modules in Energy Conversion	T1-5 Ultra-Capacitors in Power Conversion: Analysis, Modeling and Design in Theory and Practice	T1-6 Inductive Wireless Power Transmission

12:00 pm – 1:00 pm Lunch on Own

Tutorials Group 2 • 1:00 pm – 5:00 pm

Russell	Ellis West	Cowboy Artists	Ellis East	Cassidy	Curtis
T2-1 Design and Modeling of Dual Fed Asynchronous Generators: Application to Wind Power Generation	T2-2 Design Considerations for Photovoltaic Systems Installed on Curved Surfaces	T2-3 Artificial Intelligence Techniques in Power Electronics and Motor Drives	T2-4 Practical Design and Challenges of Traction Inverter for Electrified Vehicles	T2-5 Designing with Lithium-Ion Batteries: An Engineering Perspective	T2-6 Multilevel Converters: Recent Development of Topologies and PWM Control Methods

4:30 pm – 5:00 pm New to ECCE/PELS/IAS Reception (for those new to the organizations)..... Atrium

5:00 pm – 7:00 pm Opening Reception..... Atrium

MONDAY, SEPTEMBER 19, 2011

7:00 am – 7:00 pm Registration Open..... Atrium Lobby

8:00 am – 10:00 am Plenary Session..... Regency ABCD

10:00 am – 10:20 am AM Break..... Atrium Lobby

Breakout Sessions • 10:20 am – 12:00 pm

Ellis West	Curtis	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Phoenix	Regency ABCD
S1: Solar PV Technology	S2: Power Semiconductors: Thermal Management	S3: Model-Based Sensorless Control	S4: Distributed Utility Voltage Regulation	S5: DC-DC Converters: Topologies I	S6: Induction Machines	S7: Multilevel Converters I	S8: MPPT Algorithms for Solar PV Systems	S9: Indirect AC-AC Converters I	S10: Transportation Applications: General	SP1: Wind Energy Conversion

12:00 pm – 1:20 pm Lunch on Own

Breakout Sessions • 1:20 pm - 3:00 pm

Ellis West	Curtis	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Regency CD	Regency AB
S11: Wind Energy: Generators and Drives	S12: Power Semiconductors: Packaging	S13: Direct Torque Control	S14: Distributed Grid Controls	S15: DC-DC Converters: Controls I	S16: Thermal Analysis and Losses I	S17: Voltage Source Inverters	S18: DC-DC Converters for Solar PV Systems I	S19: Indirect AC-AC Converters II	S20: Transportation Applications: Voltage Converters	SP2: Power Supply on Chip

3:00 pm – 3:20 pm PM Break..... Atrium Lobby

Breakout Sessions • 3:20 pm - 5:00 pm

Ellis West	Curtis	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Regency CD	Regency AB
S21: Wind Energy: Power Electronic Converters	S22: Magnetic Component Design & Applications	S23: Sensorless Control Issues	S24: Microgrid Controls	S25: DC-DC Converters: Modeling	S26: Thermal Analysis and Losses II	S27: Inverter Control Techniques	S28: DC-DC Converters for Solar PV Systems II	S29: Modeling and Control of AC-AC Converters	S30: Transportation Applications: Infrastructures	SP3: PEV Infrastructure and Technologies

5:00 pm – 7:00 pm Expo Open/Expo Reception Supported in part by Opal-RT Technologies, Inc. Phoenix Convention Center, West Hall 1

5:00 pm – 10:00 pm Student Demonstrations..... Phoenix Convention Center, West Hall 1

8:00 pm – 10:00 pm Industry Student Dinner Supported by GE Global Research and Nexteer Automotive (ticketed function)..... Phoenix Convention Center, West Hall 1

TUESDAY, SEPTEMBER 20, 2011

7:00 am – 6:00 pm Registration Open..... Phoenix Convention Center, West Hall Prefunction

9:00 am – 6:00 pm Exhibit Hall Open..... Phoenix Convention Center, West Hall 1

9:00 am – 6:00 pm Student Demonstrations..... Phoenix Convention Center, West Hall 1

9:20 am – 9:40 am AM Break..... Phoenix Convention Center, West Hall 1

9:30 am – 10:00 am GE Industrial Seminar..... Phoenix Convention Center, West Hall 1

10:00 am – 10:30 am Ford Motor Company Industrial Seminar..... Phoenix Convention Center, West Hall 1

10:30 am – 12:00 pm Poster Session I..... Phoenix Convention Center, West Hall 1

12:00 pm – 1:20 pm Lunch in the Exhibit Hall..... Phoenix Convention Center, West Hall 1

1:30 pm – 2:00 pm Magnetics Industrial Seminar..... Phoenix Convention Center, West Hall 1

2:00 pm – 2:30 pm Opal-RT Technologies Industrial Seminar..... Phoenix Convention Center, West Hall 1

2:30 pm – 3:00 pm Freescale Semiconductors Industrial Seminar..... Phoenix Convention Center, West Hall 1

3:00 pm – 3:30 pm PM Break..... Phoenix Convention Center, West Hall 1

3:30 pm – 5:00 pm Poster Session II..... Phoenix Convention Center, West Hall 1

5:00 pm – 6:00 pm JMAG Industrial Seminar and Cocktail Reception Supported in part by JSOL Corporation and Powersys, Inc. Phoenix Convention Center, West Hall 1

TUESDAY, SEPTEMBER 20, 2011 *(Continued)*

Rap Sessions • 7:30 pm – 9:00 pm

Remington	Russell	Borein
R1 Mission Impossible? A 100% Renewable Energy Society , organized by Dan M. Ionel	R2 Vehicle Electrification Technologies, Today and Tomorrow , organized by Chris Mi	R3 Plug-in Electric Vehicles and the Electric Power Grid: Colliding Industries , organized by Jin Wang

WEDNESDAY, SEPTEMBER 21, 2011

7:00 am – 7:00 pm Registration Open..... Atrium Lobby

Breakout Sessions • 8:00 am - 9:40 am

Ellis West	Regency C	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Regency D	Regency AB
S31: Wind Energy: Grid Connection and System Integration	S32: Magnetics	S33: Drive Issues I	S34: Transient Behavior in Grid Connected and Stand Alone Systems	S35: Resonant DC-DC Converters I	S36: Fractional Slot Machines	S37: Z-Source Inverters	S38: LED Drivers I	S39: AC-DC Rectifiers: Design and Analysis	S40: Transportation Applications: Electric Drivetrain	SP4: Power Magnetics for Smart Grid Applications

9:40 am – 10:00 am AM Break..... Atrium Lobby

Breakout Sessions • 10:00 am - 11:40 am

Ellis West	Regency C	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Regency D	Regency AB
S41: Wind Energy: Generators and Controls	S42: Power Semiconductors: High Temperature Devices	S43: PM Machine Controls	S44: Grid Interactive Solar PV Systems I	S45: DC-DC Converters: Topologies II	S46: Faults and Diagnostics	S47: Modeling and Control of Single-Phase Inverters	S48: LED Drivers II	S49: High Performance Power Factor Correction	S50: Transportation Applications: Battery Modeling and Charging	SP5: Super-Conducting Machines

11:40 am – 1:30 pm Lunch on Own

Breakout Sessions • 1:30 pm - 3:10 pm

Ellis West	Regency C	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Regency D	Regency A
S51: Wind Energy: Control Techniques	S52: Power Semiconductors: Wide Bandgap Devices	S53: Sensorless Control I	S54: Grid Interactive Solar PV Systems II	S55: Resonant DC-DC Converters II	S56: Electric Traction Machines	S57: Modeling and Control of Three-Phase Inverters	S58: Lighting Applications	S59: AC-DC Rectifier Control I	S60: Transportation Applications: Batteries, Ultracapacitors, and Fuel Cells	S61: DC-DC Converters: Digital Control

3:10 pm – 3:30 pm PM Break..... Atrium Lobby

Breakout Sessions • 3:30 pm - 5:10 pm

Ellis West	Regency C	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Regency D	Regency A
S62: Energy Storage I	S63: Power Devices: Parallel and Series Operation	S64: Sensorless Control II	S65: Impact of Renewable Energy Systems on Utility Grid	S66: Resonant DC-DC Converters III	S67: Advanced Electric Machine Design I	S68: High Power Inverters	S69: Uninterruptible Power Supplies	S70: Single Phase AC-DC Rectifier: Control and Analysis	S71: Rail, Aerospace, and Marine	S72: Integrated DC-DC Converters

7:00 pm – 9:30 pm ECCE Banquet..... Phoenix Convention Center, North 120 B-D

THURSDAY, SEPTEMBER 22, 2011

7:00 am – 3:00 pm Registration Open..... Atrium Lobby

Breakout Sessions • 8:00 am - 9:40 am

Ellis West	Curtis A	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Curtis B	Phoenix
S73: Energy Storage II	S74: Electric Machine Modeling	S75: Modulation Techniques	S76: DC-DC Converters for Renewable Energy Systems	S77: DC-DC Converter Controls II	S78: Advanced Electric Machine Design II	S79: Multilevel Converters II	S80: Medium Voltage Industrial Drives	S81: Single Phase AC-DC Rectifier: Topology	S82: Contactless Power Transfer	S83: Inverter Applications

9:40 am – 10:00 am AM Break..... Atrium Lobby

Breakout Sessions • 10:00 am - 11:40 am

Ellis West	Curtis A	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Curtis B	Phoenix
S84: Energy Storage: Batteries	S85: Switched Reluctance Machines	S86: Drive Control	S87: Solar PV System Design and Architecture	S88: DC-DC Converter Controls III	S89: Permanent Magnet Machine Optimization	S90: Inverter PWM Techniques	S91: STATCOM Controls	S92: AC-DC Rectifier Control II	S93: DC-DC Converters: Passive Components	S94: General Inverter Technologies

11:45 am – 1:40 pm Awards Luncheon.....Regency ABCD

Breakout Sessions • 1:40 pm - 3:20 pm

Ellis West	Curtis A	Cassidy	Ellis East	Remington	Cowboy Artists	Russell	Sundance	Borein	Phoenix
S95: Ocean and Wave Energy Harvesting I	S96: Power Devices: Measurement and Characterisation	S97: Drive Issues II	S98: Grid Interactive Renewable Energy Systems	S99: DC-DC Converters: Topologies III	S100: Special Application Machines	S101: Modular Multilevel Converters	S102: Active Filters Applications	S103: Three-Phase AC-DC Rectifiers	S104: Soft-Switching Inverters

3:20 pm – 3:40 pm PM Break..... Atrium Lobby

Breakout Sessions • 3:40 pm - 5:00 pm

Ellis West	Curtis A	Ellis East	Remington	Cowboy Artists	Russell	Sundance
S105: Ocean and Wave Energy Harvesting II	S106: IGBT Modules	S107: DC Microgrids	S108: Multiphase DC-DC Converters	S109: Synchronous Reluctance Machines	S110: Boost Inverters	S111: Utility Applications