IEEE ENERGY CONVERSION CONGRESS & EXPOSITION



SEPTEMBER 17-22, 2011HYATT REGENCY PHOENIX & PHOENIX CONVENTION CENTER IN PHOENIX, ARIZONA

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Energy Conversion Innovation for a Clean Energy Future — T E N T A T I V E A G E N D A

:00 pm – 5:00 pm											
00 hiii — 2:00 hiii	Registrat	ion Open									
UNDAY, SEPTE	MBER 18,	2011									
:00 am – 7:00 pm	Registrat	ion Open									
				Tutorials 6	Froup 1 • 8:30 ar	n – 12:00 pm					
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	
2:00 pm – 1:00 pm	Lunch on	0wn									
				Tutorials (Group 2 • 1:00 p	m – 5:00 pm					
T2-1 Design and Modeling of Dual Fed Asynchronous Generators: Application to Wind Power Generation		T2-2 Multilevel Converters: Recent Development of Topologies and PWM Control Methods		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 Design Consideration for Photovoltaic Systems Installed on Curved Surfac	
:30 pm – 5:00 pm	New to ECCE/PELS/IAS Reception (for those new to the organizations)										
00 pm – 7:00 pm	Opening Reception										
ONDAY, SEPTE	MBER 19	, 2011									
:00 am – 7:00 pm	Registrat	ion Open									
:00 am – 10:00 am	Plenary Session										
0:00 am – 10:20 am	AM Breal	(
				Breakout Se	essions • 10:20 a	am – 12:00 pm					
Technology	ology conductors: Sensorless Utilit		A11: Distribut Utility Voltag Regulation	tage Converters: Mach		H1: Multilevel Converters I	A20: MPPT Algorithms for Solar PV Systems	I1: Indirect AC- AC Converters I	C1: Transportation Applications: General	SP1: Wind Energy	
2:00 pm – 1:20 pm	Lunch on	0wn									
				Breakout S	Sessions • 1:20	pm - 3:00 pm					
enerators and Ser	L2: Power miconductors Packaging	K2: Direct Torque s: Control	A12: Distribut Grid Control		J2: Thermal Analysis and Losses I	H2: Voltage Source Inverters	A21: DC-DC Converters for Solar PV Systems I	I2: Indirect AC- AC Converters II	C2: Transportation Applications: Voltage Converters	SP2: Power supply on Ch	
:00 pm – 3:20 pm	PM Breal	(
				Breakout S	Sessions • 3:20	pm - 5:00 pm					
nergy: Power (Electronic	3: Magnetic Component Design & Applications	K3: Sensorless Control Issues	A13: Microgr Controls	rid F3: DC-DC Converter Modeling	J3: Thermal Analysis and Losses II	H3: Inverter Control Techniques	A22: DC-DC Converters for Solar PV Systems II	I3: Modeling and Control of AC-AC Converters	C3: Transportation Applications: Infrastructures	SP3: PEV Infrastruture a Technologie	
:00 pm – 7:00 pm	Expo Rec	eption/Expo Open									
UESDAY, SEPTI	EMBER 20	, 2011									
00 am – 7:00 pm	Registrat	ion Open									
00 am – 6:00 pm	Exhibit H	all Open (including	Demo Sessio	ns. Industrial Semina	rs, and Student I	Demonstrations)					
40 am – 10:00 am	AM Breal	(
2:00 pm – 1:20 pm	Lunch										
30 pm – 3:00 pm	Poster Se	ssion I									
00 pm – 3:30 pm	PM Break										
30 pm – 5:00 pm	Poster Se	ssion II									
				Don Coo	sions • 8:00 pm	0:00 nm					

7:00 am – 7:00 pn	n Registration	n Open									
		•		Breakout	Sessions • 8:00	am - 9:40 am					
3: Wind Energy: Grid Connection and System Integration	L4: Magnetics	K4: Drive Issues I	A14: Transient Behavior in Grid Connected and Stand Alone Systems	F4: Resonant DC DC Converters I	J4: Fractional Slot Machines	H4: Z-Sou Inverte			G1: Three Phase AC-DC Rectifiers		SP4: Super- conducting Machines
:00 am – 9:40 an	n S62 Specia	l Session									
:40 am – 10:00 a	m AM Break										
				Breakout S	essions • 10:00	am - 11:40 aı	n				
4: Wind Energy: Generators and Controls	L5: Power Semiconductors: High Temperature Devices	K8: PM Machine Controls	A23: Grid Interactive Solar PV Systems I	F5: DC-DC Converter Topologies II	J5: Faults and Diagnostics	H5: Mode and Contr Single-Ph Inverte	ling B2: LED D ol of II	rivers	G2: High Performance Power Factor Correction	C5: Transportation Applications: Battery Modeling	SP5: Power Magnetics fo Smart Grid
11:40 am – 1:30 p	m Lunch on O	wn									
1110 анг 1100 р	Lanon on o			Breakout	Sessions • 1:30	nm - 3:10 nm					
A5: Wind Energy: Control Techniques	L6: Power Semiconductors: Wide Bandgap Devices	K6: Sensorless Control I	A24: Grid Interactive Solar PV Systems II	F6: Resonant DC DC Converters II	J6: Electrical	H6: Mode and Contr Three-Ph Inverte	ling B3: Ligh ol of Applicat ase		G3: AC-DC Rectifier Controls I	C6: Transportation Applications: Batteries, Ultracapacitors, and Fuel Cells	F11: DC-DC Converters: Digital Contro
3:10 pm – 3:30 pn	n PM Break										
				Breakout	Sessions • 3:30	pm - 5:10 pm					
A8: Energy Storage I	L7: Power Devices: Parallel and Series Operation	K7: Sensorless Control II	A17: Impact of Renewable Energy Systems on Utility Grid	F7: Resonant DC DC Converters II	J7: Advanced	H7: High Po Inverted	ower B4: Med	ge	G4: Single Phase AC-DC Rectifiers: Control and Analysis	C7: Rail, Aerospace, and Marine	F12: Integrate DC-DC Converters
7:00 pm – 9:30 pn	n ECCE Bangi	uet							,		
THURSDAY. S	EPTEMBER 22	. 2011									
7:00 am – 3:00 pn	_										
	and grown and			Breakout	Sessions • 8:00	am - 9:40 am					
A9: Energy Storage II	J11: Electrical Machine Modeling	K5: Modulation Techniques	A18: DC-DC Converters for Renewable Energy Systems	F8: DC-DC Converter Controls II	J8: Advanced Electrical Machine Desig II	H8: Multile Converte	evel B5:	ptible	G5: Single Phase AC-DC Rectifiers: Topologies	C8: Contactless Power Transfer	H11: Inverte Applications
9:40 am – 10:00 a	m AM Break										
				Breakout S	essions • 10:00	am - 11:40 ar	n				
A10: Energy Storage: Bateries	J12: Switched Reluctance Machines	K9: Drive Control	A25: Solar PV System Design and Architecture	F9: DC-DC Converter Controls III	J9: Permanen Magnet Machine Optimization	H9: Inver PWM Techniqu	Contro		G6: AC-DC Rectifier Controls II	F13: DC-DC Converters: Passive Components	H12: Genera Inverter Technologie:
11:45 am – 1:40 p	m Awards Lur	ncheon									
				Breakout	Sessions • 1:40	pm - 3:20 pm					
A6: Ocean and Wave Energy Harvesting I	L8: Power Device Measurement a Characterisation		nes II A16: Gr Interact Renewable Systen	ive Conv Energy Topolo	rerter Ap	Special plication achines	H10: Modular Multilevel Converters			G7: AC-DC Rectifier Design and Applications	H13: Soft- Switching Inverters
3:20 pm – 3:40 pn	n PM Break										
				Breakout	Sessions • 3:40	pm - 5:00 <u>p</u> m					
A7: Ocean and Energy Harves		: IGBT Modules	A15: DC M	icrogrids F	14: Multiphase DI Converters		13: Synchornous uctance Machine		H14: Boost Inve	rters B8: Uti	lity Applications