

“Green World with Power Electronics”

# ICPE2011-ECCE Asia

The 8th International Conference on Power Electronics-ECCE Asia

The Shilla Jeju, Jeju, Korea / May 30 ~ June 3, 2011

## ACCOMMODATION



The organizing committee of ICPE2011-ECCE Asia has reserved sufficient rooms at discount conference rates for all participants.

Hotels	Room Type	Special Room Rate	Remark
The Shilla Hotel Jeju (Headquarter Hotel)	Mountain View	Twin	KRW 190,000
		Double	KRW 190,000
	Ocean View	Twin	KRW 240,000
		Double	KRW 240,000
The Suite Hotel	Twin	KRW 140,000	- Excluding breakfast and Per room based. - Including Service Charge and Value Added Tax.
	Double	KRW 140,000	
Hotel Hana	Standard Double	KRW 90,000	
	Deluxe Double	KRW 110,000	
	Twin	KRW 90,000	

## TECHNICAL TOUR (June 3, 2011 FRIDAY)



### \* Jeju Smart Grid Test Bed

Jeju Smart Grid will become the worlds largest Smart Grid community that allows the testing of the most advanced Smart Grid technologies and R&D results, as well as the development of business models.

## OPTIONAL TOURS



We have provided various leisure programs including OLLE Tour, Scuba Diving, Shooting and Horse ridings. Also you can visit many attractions in Jeju Island with our sightseeing programs. For details about date and price, please visit our website. (<http://www.icpe2011.org/sub1002.php>)



## TRANSPORTATION

### How to Get to Jeju

#### 1) Overseas to Jeju Int'l Airport

You can access to the Jeju Int'l Airport by the international flight from Japan (Fukuoka, Osaka, Nagoya, and Tokyo), China (Shanghai, Beijing), Russia, Philippines, Thailand, Hong Kong, Taiwan, and Vietnam.



#### 2) Overseas to Incheon Int'l Airport to Jeju Int'l Airport

Recheck to transfer on the 1st floor of Incheon Int'l Airport and to receive the boarding pass for the domestic flight on the 3rd floor (Departure Level) in Incheon Int'l Airport to Jeju International Airport.

#### 3) Overseas to Incheon Int'l Airport to Gimpo Int'l Airport to Jeju Int'l Airport

Take an Airport Limousine Bus or AREX (Airport Railroad train) from Incheon Int'l Airport to Gimpo Domestic Airport. A number of domestic flights to Jeju Int'l Airport are available.

#### 4) Overseas to Gimhae Int'l Airport to Jeju Int'l Airport

You can access to the Gimhae Airport by the international flight from Japan (Fukuoka, Osaka, Nagoya, and Tokyo), China (Shanghai, Beijing), Russia, Philippines, Thailand, Hong Kong, Taiwan, and Vietnam.

### From Jeju International Airport to Venue

You can arrive at The Shilla Jeju by an airport limousine. The airport limousines run between Jeju Int'l Airport and The Shilla Jeju. (Bus No.: 600 / Fare: KRW 3,900)

From Jeju International Airport to Venue (ICC Jeju)

Limousine Route: Airport - Crown Plaza Hotel - Yeomiji Botanical Garden - Hana Hotel - Hyatt Hotel - THE SHILLA JEJU.

## SOCIAL PROGRAMS

	Welcome Reception	Banquet	Night of Jeju
Date	May 30, 2011 (MON)	June 1, 2011 (TUE)	June 2, 2011 (THU)
Time	17:30 ~ 19:00	19:00 ~ 21:00	18:40~20:40
Fee	Free of Charge	KRW 80,000	Free of Charge
Place	Camellia	Function Lawn	Jungmun Marine Park Pacific Land

## SPECIAL EVENTS

### - NANTA

NANTA is a comic musical non-verbal performance derived from the traditional Korean instrumental performance "Samulnori." The kitchen is its backdrop, chefs its main characters.

### - SPOUSE LOUNGE

All the Spouses can have a cup of coffee, soft drinks, fruits, and cookies in the lounge.

### - KOREAN MOVIE NIGHT

Well-known Korean movie will be shown on Monday Night

### - NIGHT OF JEJU

Fresh Seafood from Jeju island and drinks will be served.

## SECRETARIAT

ICPE 2011-ECCE Asia Secretariat

Genicom Co., Ltd.

5F Daehan Bldg., #1018 Dunsan-dong, Seo-gu, Daejeon, 302-120

Tel: +82-42-472-7460 / Fax: +82-42-472-7459

E-mail: [icpe2011@icpe2011.org](mailto:icpe2011@icpe2011.org) / Web: <http://www.icpe2011.org>

CALL FOR PARTICIPANTS

<http://www.icpe2011.org>

# ICPE 2011-ECCE Asia

The 8th International Conference on Power Electronics-ECCE Asia

The Shilla Jeju, Jeju, Korea / May 30 ~ June 3, 2011

“Green World with Power Electronics”

### Co-Sponsored by

The Korean Institute of Power Electronics  
Institute of Electrical and Electronics Engineers  
IEEE Power Electronics Society

### ECCE-Asia Cooperation

China Electrotechnical Society  
The Institute of Electrical Engineers of Japan /  
Industry Application Society  
European Power Electronics and Drives Association

### Supported by

Korea Tourism Organization  
Jeju Convention & Visitors Bureau



# ICPE2011-ECCE Asia

The 8th International Conference on Power Electronics-ECCE Asia

The Shilla Jeju, Jeju, Korea / May 30 ~ June 3, 2011

## Welcome to ICPE2011-ECCE Asia in Jeju Island, Korea!

The 8th International Conference on Power Electronics (ICPE2011-ECCE Asia), will be held at the Shilla Jeju, Jeju, Korea from May 30 ~ June 3, 2011.

ICPE 2011-ECCE Asia is the international conference for the exchange of information regarding research and development in Power Electronics and its related fields, which brings together both researchers and practitioners from diverse fields. We, the members of the Organizing Committee, are making all efforts to meet your expectations and to ensure a successful conference. We hope to create an opportunity for old friends and colleagues to get together, and more importantly, to become acquainted with new peers from the Power Electronics field.

## IMPORTANT DATES; Deadlines

Final Manuscript Submission: April 8, 2011

Early Registration: April 30, 2011

Exhibit & Sponsorship Application Deadline: March 31, 2011

Hotel Reservation: April 30, 2011

## ORGANIZATION

General Chair **Seung-Ki Sul** Seoul Nat'l Univ.

### ORGANIZING COMMITTEE

Chair	Heung-Guen Kim	Kyungpook Nat'l Univ.
Exhibition Chair	Dongwook Yoo	Korea Electrotechnology Research Institute
Information/ Local Chair	Eel-Hwan Kim	Jeju Nat'l Univ.
Treasure Chair	Eui-Cheol Nho	Pukyong Nat'l Univ.
Publicity Chair	Yongsug Suh	Chonbuk Nat'l Univ.

### TECHNICAL PROGRAM COMMITTEE

Chair	Kwang-Hee Nam	POSTECH
Vice Chairs	Dong-Choon Lee	Yeungnam Univ.
	Nam-Sup Choi	Chonnam Nat'l Univ.
	Sewan Choi	Seoul Nat'l Univ. of Science & Technology
	Jong-Woo Choi	Kyungpook Nat'l Univ.
	Gun-Woo Moon	KAIST
General Secretary	Byoung-Kuk Lee	Sungkyunkwan Univ.

## TECHNICAL PROGRAM

### PLENARY SPEAKERS



**Prof. Dehong Xu**  
(Zhejiang Univ., China)  
Title: A Family of Novel Zero-voltage Switching Three-Phase PWM Converters Topology for Distributed Generation



**Dr. Toshihiro Sawa**  
(Yaskawa Electric Corp., Japan)  
Title: Power Electronics Contributing to the Green and Clean World



**Prof. Prasad Enjeti**  
(Texas A&M Univ., USA)  
Title: Role of Power Electronics in Renewable Energy Systems



**Dr. DooYeorn Jo**  
(Doosan Infracore, Korea)  
Title: Development of Fuel-efficient Construction Equipment in Doosan Infracore

### TUTORIALS

- Prof. Yongsug Suh (Chonbuk Nat'l Univ., Korea) and Dr. Pierluigi Tenca (ABB Corporate Research Center, Sweden)  
Title: High Power Converters
- Prof. Frede Blaabjerg (Aalborg Univ., Denmark)  
Title: Power Electronics - the Intelligent Interface between Renewable Energy Systems and the Grid
- Prof. Zi-Qiang Zhu (Sheffield Univ., UK)  
Title: Sensorless Operation of Permanent Magnet Brushless DC and AC Drives - Basic and Novel Machine Design and Control Aspects
- Dr. Chris Mi (Univ. of Michigan-Dearborn, USA)  
Title: Plug-in Hybrid Electric Vehicles
- Prof. Yoichi Hori (The Univ. of Tokyo, Japan)  
Title: Another Future EV Society based on Motor/Capacitor/Wireless
- Dr. Jung Hee Han and Dr. Richard Woodin (Global Power Electronics, USA)  
Title: SiC Materials, Devices, Packaging, and Applications
- Dr. Alex Ruderman, Dr. Boris Reznikov and Dr. Steven P. Thielemans (Elmo Motion Control Ltd., Israel)  
Title: Multilevel Converters Analysis by Time Domain Averaging: Multiphase PWM Voltage Quality and Flying Capacitors Voltage Balancing Dynamics

### RAP SESSIONS

#### 1. Smart Grid, Just Dream? Or Cash Cow?

- Dr. Youngmin Kim (LSIS, Korea)
- Prof. Deepak Divan (Georgia Inst. of Tech., USA)
- Prof. Frede Blaabjerg (Aalborg Univ., Denmark)
- Prof. Jinjun Liu (Xi'an Jiaotong Univ., China)
- Prof. Jumpei Baba (The Univ. of Tokyo, Japan)



#### 2. EV, Blue Ocean for PE Engineers, What are Jaws?

- Prof. Chris Mi (Univ. of Michigan-Dearborn, USA)
- Prof. Yoichi Hori (The Univ. of Tokyo, Japan)
- Prof. Kwanghee Nam (POSTECH, Korea)
- Prof. Bohyung Cho (Seoul Nat'l Univ., Korea)
- Prof. Zi-Qiang Zhu (The Univ. of Sheffield, UK)
- Dr. Yochan Son (GMATC, USA)



### ORGANIZED SESSION

20 Organized Sessions will be held related with Power Electronics at the conference. For further information, please refer to the following website (<http://www.icpe2011.org/sub0406.php>)

“Green World with Power Electronics”

## PUBLICATION

Accepted papers through peer review by Technical Program Committee will be included in IEEE Explore and also can be submitted to the IEEE Transactions on Power Electronics, IEEE Transactions on Industry Applications and Journal of Power Electronics (Impact Factor: 1.238) for publication.

## REGISTRATION

- A final manuscript can be uploaded into on-line system after completing the registration by one of the authors.
- One regular registration must be completed for maximum two accepted papers regardless of the authors' status including student or retired.

ICPE-ECCE Asia Registration Fee			Early	On-Site
Registration	Regular	Member	₩ 700,000	₩ 800,000
		Non-Member	₩ 800,000	₩ 900,000
	Student	Member	₩ 350,000	₩ 400,000
		Non-Member	₩ 400,000	₩ 450,000
Tutorial-Full Day	Regular	Member	₩ 180,000	₩ 200,000
		Non-Member	₩ 200,000	₩ 220,000
	Student	Member	₩ 60,000	₩ 70,000
		Non-Member	₩ 70,000	₩ 70,000
Tutorial-Half Day	Regular	Member	₩ 100,000	₩ 120,000
		Non-Member	₩ 120,000	₩ 150,000
	Student	Member	₩ 40,000	₩ 50,000
		Non-Member	₩ 50,000	₩ 50,000
One Day Pass (Excluded Banquet)		Member	₩ 250,000	₩ 300,000
		Non-Member	₩ 300,000	₩ 350,000
Additional Banquet			₩ 80,000	
Technical Tour (Smart Grid Test Bed)			₩ 25,000	
Spouse			Free of Charge	

For further information, please refer to the following website (<http://www.icpe2011.org/sub09.php>)

## EXHIBITION

Exhibition will be held during the conference. You can meet very famous companies in the field of power electronics such as HYUNDAI MOTOR COMPANY, HYOSUNG, LSIS etc. Especially, HYUNDAI MOTOR COMPANY will exhibit electric cars which are reflected their state-of-the-art technologies.

