International Symposium on Frontier Power Systems

Graduate Sub-Program in Electrical Engineering and Energy for Improvement of Practical Abilities and Future Preparation

March 13-14, 2014
Kumamoto University, JAPAN

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Endorsed by
Kumamoto University
Institute of Pulsed Power Science
Computer Science and Electrical Engineering
International Symposium on Frontier Power Systems

PROGRAM

March 13 (Thursday)

13:00 Opening remarks

Prof. Hidenori Akiyama

Renewable Power System

Chair Prof. Tomoaki Ikegami

13:10 - 14:10 “From Oil to Solar for Sustainable Industry”

Dr. Katsumi Kushiya

(General Manager, Technology Strategy Planning Division, Showa Shell Sekiyu K.K., Solar Frontier K.K., Japan)

14:10 – 14:20 Break

14:20 – 15:00 “Development of Diagnostic Method of PV Module”

Prof. Tomoaki Ikegami

(Department of Computer Science and Electrical Engineering, Kumamoto University)

15:00 – 15:10 Break

Power electronics

Chair Prof. Takashi Sakugawa

15:10 – 16:10 “Smart Distribution Based on Microgrid Clusters”

Prof. Arindam Ghosh

(School of Electrical Engineering and Computing, Curtin University, Perth, Australia)

16:10 – 16:20 Break

16:20 – 17:00 “Semiconductor Pulsed Power Modulator and It's Applications”

Prof. Takashi Sakugawa

(Department of Computer Science and Electrical Engineering, Kumamoto University)

March 14 (Friday)

Pulsed Power System

Chair Prof. Akiyama

9:30 – 10:30 “Solid State Pulse Modulator for a Medical LINAC System”

Dr. Jaegu Choi

(T/L, Senior Researcher, Advanced Medical Device Research Center, Korea Electrotechnology Research Institute (KERI), Korea)

10:30 – 10:40 Break

10:40 – 11:40 “Solid-State Pulsed Power as a Key Technology for Industrial Applications”

Prof. Luis Redondo

(Research Group on Pulsed Power Advanced Applications, Lisbon Engineering Superior Institute, Lisbon, Portugal)

11:40 – 13:00 Break

Electric Power system

Chair Prof. Hajime Miyauchi

13:00 – 14:00 “Maximizing Penetration of Renewable Energy Considering Economical and Technical Aspects in Power Networks”

Prof. Engin Karatepe

(Department of Electrical-Electronics Engineering Ege University, Izmir, Turkey)

14:00 – 14:10 Break

14:10 – 14:50 "Risk Assessment for Generation Investment Based on Utility Indifference Pricing”

Prof. Hajime Miyauchi

(Department of Computer Science and Electrical Engineering, Kumamoto University)

14:50 – 15:00 Break

Discharge and Plasma System

Chair Prof. Sunao Katsuki

15:00 – 16:00 “Agricultural and food processing applications of high-voltage and plasma technologies”

Prof. Koichi Takaki

(Department of Electrical Engineering and Computer Science, Iwate University)

16:00 Closing remarks

Prof. Hajime Miyauchi