

# **Call for Participation**

# International Conference on Applied Energy (ICAE2010) 21-23 April 2010, Furama Riverfront Hotel, Singapore

## Energy Solutions for a Sustainable World

The International Conference on Applied Energy (ICAE) is a truly integrated forum on research, development and application of energy technology and policy. ICAE aims to facilitate debate on topics ranging from energy R&D and energy resource optimization to urban energy efficiency standards and climate change policy. In today's sophisticated energy environment, we need to weave layers of scientific, engineering, research and social analysis to obtain an accurate road map for the future. Forging dynamic networks among academia, industry and government has always been at the heart of this event. This year's conference carries the theme, "Energy Solutions for a Sustainable World". ICAE2010 is the second in the series following up on the inaugural ICAE2009 held in Hong Kong.

### **Conference Papers**

More than 200 technical papers will be presented at ICAE 2010 covering the following areas:

# Renewable and Green Energy Resources and Technologies

- Biomass, wind and solar energy resources and technologies
- Alternative fuels
- Fuel cells and hydrogen energy
- Energy storage technologies

#### **Energy Conservation in Buildings**

- Green and "zero energy" buildings
- Green building envelopes
- Energy efficient heating and cooling systems
- Heat pump, thermal storage and energy recovery systems

#### **Advanced Energy Technologies**

- Micro- and nano-technology applied to energy systems
- Carbon capture and storage systems
- Combustion and engine technology
- Novel and advanced energy conversion systems

## **Energy Systems for Power Generation**

- Energy efficiency and management
- Energy process and system modeling and optimization
- Advanced power generation, transmission and automation
- Distributed energy systems
- Poly-generation systems

# Energy, Environment and Sustainable Development

- Greenhouse gas and climate change mitigation
- Pollutant emission control and abatement
- Energy efficiency in transportation
- Energy Efficiency in water production
- Energy and sustainable development
- Energy policy, economics, and planning

#### ICAE2010 is supported by













### **Target Audience**

The conference aims to attract an international audience of academics, researchers, policy makers, manufacturers of clean energy systems and devices, and energy services professionals.

#### **Keynote Speakers**

- GOH Chye Boon, Chief Executive Officer, Sino-Singapore Tianjin Eco-City Investment and Development Co. Limited, China
- Professor Ashwani GUPTA, Distinguished University Professor, University of Maryland, USA
- Professor YAN Jinyue, Royal Institute of Technology (KTH) and Mälardalen University, Sweden
- Speakers on Energy and Climate Change Strategies from China and the UK to be confirmed.

### **Conference Programme**

21-Apr-10	22-Apr-10	23-Apr-10	
Opening Ceremony and Keynote 1*	Keynote 3	Keynote 5	
5 x Parallel Sessions	5 x Parallel Sessions	4 x Parallel Sessions	
Break	Break	Break	
5 x Parallel Sessions**	5 x Parallel Sessions	1 x Thematic Session with panel discussion and 3 x Parallel Sessions	
Lunch	Lunch	Lunch	
Keynote 2	Keynote 4		
5 x Parallel Sessions	5 x Parallel Sessions	Technical Tour	
Break	Break		
1 x Thematic Session with panel discussion *** and 4 x Parallel Sessions	2 x Thematic Session with panel discussion and 3 x Parallel Sessions		
Evening Reception		Conference Banquet	

Planned Keynote addresses 1-5 on: Climate Change, CCS Technology, Energy Efficiency in Power Generation, China's Energy 2030

Technical sessions on: (i) Renewable and Green Energy Resources and Technologies (ii) Energy Systems for Power Generation; (iii) Energy, Environment and Sustainable Development; (iv) Energy Conservation in Buildings and (v) Advanced Energy Technologies.

Panel discussions on: (i) Carbon Neutral Cities; (ii) Biomass Gasification; (iii) Clean and Renewable Energy; (iv) Energy and Sustainability

# A selection of papers to be presented at ICAE2010:

Current Developments and Future Prospects of Offshore Wind and Ocean Energy Economic Evaluation of Grid-connected Solar Photovoitaic Systems in Low-latitude Regions Australia Cultivation of Agae with Indigenous Species- Potentials for Regional Biodiesel, Biogas and Biofuel Production Analysis of Surface Reactions and Multi-cacle Transport Processes in Solid Oxide Fuel Cells Sweden Analysis of Surface Reactions and Multi-cacle Transport Processes in Solid Oxide Fuel Cells Sweden Experimental Study on a Novel Multi-functional Solar Assisted Heat Pump System UrbaWind, a Computational Fluid Dynamics Tool to Predict Wind Resource in Urban Area A Study of Grid Connected Photovoltaic (PV) System in Hong Kong Optimization and Modeling of Bio-oil Production from Palm Shell by Pyrolysis Using Response Surface Methodology Centralized and Decentralized Compressed Air Storage for Enhanced Grid Integration of Wind Power Optimization and Modeling of Bio-oil Production from Palm Shell by Pyrolysis Using Response Surface Methodology A Noviel Magnetic Levitated Bearing System for Vertical Axis Wind Turbines (VAWT) Germany Quantifying Rikk of Energy Cost Volatility in Demand Side A Noviel Magnetic Levitated Bearing System for Vertical Axis Wind Turbines (VAWT) Germany An Easily Traceable Scenario for 80% CO2 Emission Reduction in Japan for Local Energy Strategy Development The Impact of the Introduction of Biofusels in the Transportation Sector in Indonesia  How does a Japanese "Eco Model City" Think about the Use of Biomass for Bioenergy? A Household Survey in Holdkairdo.  Agent-based Simulation for Designing Carbon Neutral City Apent-based Simulation for Designing Carbon Neutral City The Causality Relationship Between Energy Consumption and Economic Growth of Turkish and Iceland Economics Turkey The Causality Relationship Between Energy Consumption and Economic Growth of Turkish and Iceland Economics Development of Sustainable Community - A Thought Experiment About Sustainable Design and Energy Supply in Malaysia Introducing N		E KVO		
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#### **Conference Venue and Accommodation**

Furama Riverfront Singapore 405 Havelock Road

Singapore 169633 Tel: (65) 6739 6411 Fax: (65) 6235 1280

Website: riverfront@furama.com

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