



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

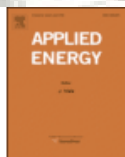
Energy Systems for Power Generation

- 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



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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

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 Japan
- Economic Evaluation of Grid-connected Solar Photovoltaic Systems in Low-latitude Regions Australia
- Cultivation of Algae with Indigenous Species- Potentials for Regional Biodiesel, Biogas and Biofuel Production Sweden
- Analysis of Surface Reactions and Multi-scale Transport Processes in Solid Oxide Fuel Cells Sweden
- Experimental Study on a Novel Multi-functional Solar Assisted Heat Pump System China
- UrbaWind, a Computational Fluid Dynamics Tool to Predict Wind Resource in Urban Area France
- A Study of Grid Connected Photovoltaic (PV) System in Hong Kong Hong Kong
- Optimization and Modeling of Bio-oil Production from Palm Shell by Pyrolysis Using Response Surface Methodology Malaysia
- Centralized and Decentralized Compressed Air Storage for Enhanced Grid Integration of Wind Power Germany
- Quantifying Risk of Energy Cost Volatility in Demand Side Japan
- A Novel Magnetic Levitated Bearing System for Vertical Axis Wind Turbines (VAWT) Germany
- Energy Audit—from a POET Perspective South Africa
- An Easily Traceable Scenario for 80% CO₂ Emission Reduction in Japan for Local Energy Strategy Development Japan
- The Impact of the Introduction of Biofuel in the Transportation Sector in Indonesia Japan
- How does a Japanese “Eco Model City” Think about the Use of Biomass for Bioenergy? A Household Survey in Hokkaido. Austria
- Agent-based Simulation for Designing Carbon Neutral City Japan
- The Causality Relationship Between Energy Consumption and Economic Growth of Turkish and Iceland Economies Turkey
- Improving Management of Energy Resources with GEOSS Switzerland
- Development of Sustainable Community - A Thought Experiment About Sustainable Design and Energy Supply in Malaysia Malaysia
- Life-cycle Energy Consumption and GHG Emissions Intensities of Alternative Vehicle Fuels in China China
- Introducing Natural Lighting into the Enclosed Lift Lobbies of Highrise Buildings by Remote Source Lighting System China
- Status and Potential of Biodiesel Production in Thailand Thailand
- Development of "Home Energy-conservation Support Program" and its Effects on Behaviour of Families Japan
- CEOS Contributions to Informing Energy Management and Policy Decision Making Using Space-Based Earth Observations United States
- Achieving Energy Conservation in Buildings through Innovative Design Solutions India
- Comparative Performance of Various Roof Designs for Thermal Comfort. Malaysia
- Experimental and Numerical Study of Radon Mitigation and Ventilation Effects Sweden
- Building Operation & Energy Performance: Monitoring, Analysis and Optimisation Toolkit Integration. Italy
- Integration of the Natural Cross Ventilation in the CFD software UrbaWind France
- An Overview of Domestic Energy Models and a New Approach with Agent Based Modelling United Kingdom
- Singapore's Zero-Energy Building's Building Daylight Monitoring System Singapore
- Building Integrated Photovoltaic of Singapore's Zero-Energy Building Singapore
- A Case Study of Implementing a Localized Smart Grid in Developing Countries Pakistan
- Numerical Simulation of a PVT System for a Student Hostel in Singapore Singapore
- Development Trends and Economics of Innovative Solar Power Generation Technologies: A Comparative Analysis Germany
- Combined Solar Power, Hydrogen, TPV and Cyanobacter Production Sweden
- Preliminary Evaluation of Investment and External Costs of Carbon Capture and Storage Italy
- Three-Dimensional Nano Chromium, a Potential Material for Improving Energy Efficiency in Windows Hong Kong

Conference Venue and Accommodation

Furama Riverfront Singapore
405 Havelock Road
Singapore 169633
Tel: (65) 6739 6411
Fax: (65) 6235 1280
Website: riverfront@furama.com

Should you require accommodation during the conference, please visit the website:
<http://www.icae2010.org/hotel-accommodation/>

Registration

Delegate Rate	SGD 800.00*
Student Rate	SGD 400.00**
Additional Ticket for Conference Dinner	SGD 100.00

Rates include GST

** Includes daily coffee breaks and lunches, attendance to all technical sessions, a copy of conference proceedings and conference dinner.*

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To register, please complete the registration form provided and submit it to the ICAE 2010 Secretariat by mail, fax or email:

ICAE 2010 Secretariat

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National University of Singapore,
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Refund & Cancellations

A 50% refund on conference registration will be made for withdrawals *received in writing no later than fourteen working days before the commencement of the conference*. We regret that we are unable to accept withdrawals after that date. However, a transfer of registration will be accepted upon prior advice at no extra cost. For a transfer of registration, please inform us in advance and send us details by email.