Local Organizing Committee

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Prof. Jie Yang,
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Prof. Haiqian Wang,
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Prof. Jie Ji,
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Prof. Quanxin Li,
Anhui Key Laboratory for Biomass Clean Energy

Prof. Xifeng Zhu,
Anhui Key Laboratory for Biomass Clean Energy

Mr. Zhengkai Zhou,
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Advisory Committee

To be confirmed

Registration Fees

To be free for delegates from the AEARU member universities

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The Third AEARU Environmental Workshop: Sustainable Energy

July 18-19, 2008, Hefei, China

First Announcement

Organizer:

中国科学技术大学

University of Science and Technology of China

Venue:

Anhui Key Laboratory for Biomass Clean Energy
University of Science and Technology of China
96 Jinzhai Road, Hefei, Anhui 230026, China

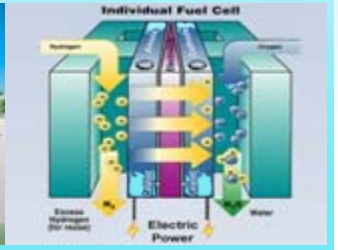
Introduction

Most of countries currently rely heavily on fossil fuels, such as coal, oil and natural gas for energy. Fossil fuels are not renewable, that is, they draw on finite resources that will eventually dwindle, becoming too expensive or too environmentally damaging to retrieve. It is an unsustainable way. In contrast, renewable energy resources, for example, solar energy and biomass energy, will meet the sustainable development in human society and economy. Renewable energy and energy efficiency including fuels cells, a workshop--The Third AEARU Environmental Workshop: Sustainable Energy (the first two sessions of AEARU Environmental Workshop were held at HKUST on January 2001 and at POSTECH on August 2004 respectively) will be held in July 18-19, 2008 in the University of Science and Technology of China (USTC), Hefei, Anhui Province, China.

Call for Abstracts

All abstracts should be written in English up to 400 words (size A4) with MS-word format which provide a concise statement of objectives and a summary of important results without using any special characters, tables or figures.

The deadline for abstract submission is **June 20, 2008**.



Sessions

Session 1: Solar Energy

Solar energy applications include solar-thermal, solar-electricity, solar-chemical and other forms of usages. Although some technologies have found wide markets, there are still many fundamental and technical problems to be overcome to promote the efficient and economical applications of solar energy.

- Solar buildings and solar collectors technologies and systems
- PV Technologies, systems and applications
- Solar chemical conversion technologies and systems

Session 2: Biomass Energy

Biomass such as agricultural wastes, forestry residues, grass and alga can be converted into liquid or gaseous fuels for the production of electric power, heat and chemicals. There are many fundamental and applied problems in the conversion and application should be resolved.

- Biomass and bio-fuels characterization
- Thermo-chemical and biochemical biomass conversion
- Refinery of crude bio-fuels

Session 3: Fuel Cell

Fuel cells convert the chemical energy stored in fuels into electricity and heat with electrochemical reactions. Fuel cells shed new light on using fuels in an efficient and clean way. The following topics are of great interest:

- Introduction to fuel cell technology: Basic features and current status
- Materials: Preparation and characterization
- Cell and stack: Testing and electrochemical characterization
- Fuel/gas: Management and phase analysis
- System: Demonstration and evaluation