



Organised by:

Croatian Solar Energy Association

GRETh - Groupement pour la Recherche sur les Echangeurs Thermiques, France

Faculty of Engineering, University of Rijeka, Croatia

Faculty of Mechanical Engineering, University of Ljubljana, Slovenia

BACKGROUND

The Congress **Energy and the Environment 2010**, the 22nd in the series, will be held from October 18 to October 22, 2010 in Opatija, Croatia. The overarching theme “Engineering for a Low-Carbon Future” is in accordance with the high priority given to climate protection both at the global and the EU level, and in particular with the goals of the energy and climate package, recently adopted by the EU.

The first part of the Congress, starting on Monday, October 18, and ending on Tuesday, October 19, 2010 is the **Energy and Climate** Conference.

The second part of the Congress is the Symposium **Heat Transfer in Components and Systems for Sustainable Energy Technologies (Heat-SET)**, the 3rd in series, starting on Wednesday, October 20, and ending on Friday, October 22, 2010.

TOPICS – CONFERENCE ENERGY AND CLIMATE

The growing demand for energy, despite limited fossil fuel reserves and growing environmental concerns, is a major challenge of the 21st century and encompasses numerous threats and opportunities. To achieve sustainable development, the origin and the usage of energy have to be addressed by all segments of the society, and by engineers in particular. Advanced energy technologies for both fossil and renewable energy carriers have to be developed, requiring significant progress in research and technology.

This congress will address the following broad topics:

- Engineering solutions for climate change mitigation
- European Union regulations in the field of energy and environmental engineering as well as their application and tasks awaiting Croatia
- International and national incentives for low-carbon future
- Innovation and technology of renewable energy sources (hydropower, solar energy, wind energy, energy from biomass and wastes) as well as their contribution to sustainable development
- Obstacles to the introduction of environmentally friendly technologies
- Energy efficiency and cogeneration in industry and buildings.

TOPICS – HEAT-SET SYMPOSIUM

Academic and industrial contributions on heat transfer and energy management in components and systems for the energy conversion and usage in all industrial sectors are considered. Papers dealing with technology development or thermal management of systems are particularly welcome. The symposium will offer opportunities to present demonstration operations and case studies.

Heat transfer in the process, refrigeration and transport industries:

- Industrial heat exchangers
- Refrigeration systems
- System efficiency
- Mobile air-conditioning

Heat transfer for building and residential applications:

- Heat generation and thermal management
- Hybrid technologies
- Polygeneration
- Air-conditioning
- Heat pumps
- Solar heating and cooling
- Geothermal energy
- Energy storage

Heat transfer in advanced energy technologies:

- Fuel cells
- Solar energy
- Bio-energy
- Energy conversion

CROATIAN SOLAR ENERGY ASSOCIATION (Energy and Climate Conference)

Address: Vukovarska 58, HR-51000 Rijeka, Croatia

Phone: ++385 51 675 801

Fax: ++385 51 675 801

E-mail: hsse@riteh.hr

Web site: www.hsse.hr

Contact persons:

Paolo Blecich: paolo.blecich@riteh.hr

Sanjin Fućak: sanjin.fucak@riteh.hr

Kristian Lenić: kristian.lenic@riteh.hr

Anica Trp: anica.trp@riteh.hr

GRETh (Heat-SET Symposium)

Address: 50 av du Lac Léman, BP302, 73375 Le Bourget du Lac, France

Fax: +33 (0) 479 72 20 16

E-mail: info@greth.fr

Web site: www.greth.fr/heatset

Contact person:

Bernard Thonon: bernard.thonon@greth.fr