

16th International Conference on Photochemical Conversion and Storage of Solar Energy

Uppsala, Sweden • July 2-7, 2006

IPS-16

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You are cordially invited to participate in the 16th International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-16), Uppsala, Sweden. July 2-7, 2006

The global need of renewable energy sources require continued diligence and perseverance in solar energy research. Approaches to renewable solar energy are numerous and include photochemistry, photosynthesis, photoelectrochemistry and photocatalysis. The IPS-16 conference will provide a great opportunity for scientists and engineers around the world for discussions of the latests developments in solar-to-chemical energy conversion.

The IPS conferences are held every two years in different parts of the world. In 2006 Uppsala will have the privilege of hosting IPS-16.

Areas of interest and tentative workshop titles will be:

W1 Photoinduced electron and energy transfer

The primary reaction principles of solar-to-chemical energy conversion are discussed, from fundamental viewpoints to the control of these reactions in molecular assemblies and hetero-structures.

W2 Solar Hydrogen

The vision of a hydrogen society brings up a lot of challenging scientific and engineering tasks. This workshop will cover different physical, chemical and biological ways of direct generation of hydrogen from sunlight.

W3 Biomimetic Systems

Approaches to mimic important biological reactions is a useful strategy in energy conversion research. This workshop will cover attempts to mimic photosynthetic electron and proton transfer, biological water oxidation and hydrogenase reactions.

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W4 Molecular and Nanostructured Solar Cells

Conventional solid-state photovoltaic technologies are now challenged by devices functioning on a molecular level. The most recent results will be presented regarding different kinds of molecular solar cells such as dye-sensitized, organic and polymer solar cells, and nanostructured extremely thin absorber (ETA) solar cells.

W5 Photocatalysis and Environmental Chemistry

Based on photocatalysis, self-cleaning materials are today widely used industrially. The on-going research and development of new materials to improve the performance of photocatalytic products for environmental applications will be presented and discussed.

W6 Photosynthesis and Hydrogenas

The efficient biological "mashines" provide the necessary knowledge for bio-inspired chemistry. This workshop will cover the intricate molecular reactions carried out by photosynthetic reaction centres and various hydrogenase enzymes.

W7 Photoelectrochemistry and New Materials

The development of efficient and durable photoelectrochemical devices is based on a fundamental understanding of the different processes in the device followed by design and preparation of improved material components. The workshop will cover the exciting and rapid advancement of this development.

Some of the special features we are planning at IPS-16 are:

- a special Solar Hydrogen session including a plenary session and panel discussion
- integrate the discussion of molecular solar cells DNSC, organic and ETA solar cells in a common workshop
- special attention is given to the poster contributions by having a cal hour general discussion of the poster presentations at the end of each workshop session moderated by a chairman. There will be a poster award. The posters will be mounted during the whole conference week.

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International Organizing Committee

Paul Alivisatos (USA), Nicolas Alonso-Vante (France) Mary Archer (UK) James Durrant (UK) P. Leslie Dutton (USA) Anders Hagfeldt (Sweden) Kazuhito Hashimoto (Japan) Alfred Holzwarth (Germany) Michael Hoffman (USA) Kan-Jin Kim (Korea) Alexander Kokorin (Russia) lean-Marie Lehn (France) Yoshihiro Nakato (Japan) Bunsho Ohtani (Japan) Yaron Paz (Israel) Pierre Pichat (France) Franco Scandola (Italy) Paul Sommeling (The Netherlands) Kirthi Tennakone (Sri Lanka) Michael Wasielewski (USA)

IPS-16 is organized by Uppsala University

Anders Hagfeldt, Chair Leif Hammarström, Co-chair Stenbjörn Styring, Co-chair

Uppsala University was founded 1477 and has today c.a. 35 000 students. Energy-related research is a profile research area of the University. C.a. 70 research projects are conducted in this field, mainly in renewable energy and energy saving technologies. A newly built Center for Artificial Photosynthesis will be inaugurated during IPS-16.

Program and Local Organizing Committee

Helena Grennberg, Anders Hagfeldt (chair), Leif Hammarström (co-chair), Olle Inganäs, Lars Kloo, Peter Lindblad, Sten-Eric Lindquist, Fikret Mamedov, Håkan Rensmo, Stenbjörn Styring (co-chair), Cecilia Tommos

Conference Secretariat

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Venue

The conference will take place at Atrium Conference Center in the city of Uppsala. Uppsala is Sweden's fourth largest city, situated only 35 km north of Stockholm-Arlanda International Airport. Frequently run trains between Stockholm and Uppsala take 40 minutes. The conference excursion is planned to go to Stockholm on Wednesday after lunch.

The second announcement including a call for papers will be distributed via e-mail in October, 2005. NB! No paper handouts for the second and third announcements will be distributed. Further information on IPS-16 will only be given via e-mail and through the website www.akademikonferens.uu.se

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