



Messe München
International

Solar Summits Freiburg

2nd International Conference
on Renewable and
Efficient Energy Use

Topic 2009:
**Solar Buildings –
Building-Integrated Energy
Supply Systems Using the
Sun as an Energy Source**

**Your ideal opportunity
to contact decision-makers
in the solar industry!**

www.solar-summits.com



Fraunhofer
ISE

FWM
Management and Marketing
for the City of Freiburg

14–16 October 2009

Freiburg i. Breisgau / Germany

Welcome to Solar Summit 2009!

Solar Summits 2009 “Solar Buildings – Building-Integrated Energy Supply Systems Using the Sun as an Energy Source” is an excellent platform for the broad exchange of ideas and information among architects, component manufacturing industries, building planners and anyone researching these topics. This year’s conference will allow participants to present the latest technical developments and discuss concepts for building-integrated solar energy conversion. It will focus on building design as a whole and include presentations of practical examples. Other topics include reducing energy consumption and its effect on demand for energy-supply systems. New concepts for communities, towns and cities will be necessary in future. In the long term, overall energy concepts that include private transportation may also be available.

Scientific Chair of Solar Summits 2009: Dr Hans-Martin-Henning, Fraunhofer Institute for Solar Energy Systems ISE

Your benefits:

Don't miss the latest and exclusive information in the sector for solar buildings:

- Get a comprehensive overview of the wide variety of application alternatives that are available for using solar technology in construction.
- Meet leading representatives from the scientific, industrial and research sectors with special focus on solar buildings and energy efficiency.
- Hear the latest technological developments in solar-energy research as well as innovative building concepts and project ideas from the sectors for solar and energy-efficient construction.
- Be part of numerous high-profile presentations and roundtable discussions.
- See how many technologies from the solar sector have been implemented in buildings in Freiburg Green City, which will give you an idea of the high usage potential that these technologies have to offer.

“In the future, modern solar technologies combined with energy-efficient building-services engineering will play an increasingly important role in the building-construction and architecture sector.”

Prof Eicke R. Weber, Director, Fraunhofer Institute for Solar Energy Systems ISE

Target group:

- Solar professionals
- Architects
- Builders
- Planners
- Researchers & developers
- Manufacturers & suppliers

About Solar Summits Freiburg:

The international Solar Summits conference is being held for the second time at “Konzerthaus Freiburg” (Freiburg Concert Hall) from 14 to 16 October 2009. Freiburg, which has more than 500 solar projects, is exceptional in its commitment to environmental issues.

The highly successful première of the “Solar Summits Freiburg” series of conferences in October 2008, which focused on the topic of silicon materials for photovoltaics, was attended by more than 230 participants from 27 different countries.



09:00 – 10:00

Reception with coffee and tea

Opening Session

10:15 – 10:30

Greeting by the Chairman

Prof Eicke R. Weber, Director, Fraunhofer Institute for Solar Energy Systems ISE

10:30 – 10:45

“Freiburg Green City”: Environmental protection is the core of sustainable urban development

Dr Dieter Salomon, Mayor of the City of Freiburg

10:45 – 11:15

The role of renewables in a future energy scenario

Hans-Josef Fell, Member of the Bundestag (German Parliament), Spokesman for Energy and Technology of the Alliance 90/The Greens parliamentary group

Building-Integrated PV 1 – Concepts and Experiences

11:15 – 11:45

Building-integrated PV – Opportunities and challenges

Dr Winfried Hoffmann, Vice President and Chief Technology Officer (CTO) Energy and Environmental Solutions, Applied Materials GmbH & Co. KG; President of the European Photovoltaic Industry Association (EPIA)

11:45 – 12:15

Roundtable discussion

12:15 – 13:30

Lunch break and chance for visit poster exhibition

13:30 – 14:00

Clever solutions for building integration of photovoltaics – Today and in the future

Willi Ernst, Advisor and Head of the Innovation Team of Centrosolar Group AG

14:30 – 15:00

Photovoltaics is modern architecture

Arch. Georg W. Reinberg, Architekturbüro Reinberg ZT GmbH

15:00 – 15:30

Roundtable discussion

15:30 – 16:00

Coffee break

Building-Integrated PV 2 – Concepts and Experiences

16:00 – 16:30

Textile architecture and photovoltaics

Prof Jan Cremers, Director Envelope Technology, Hightex/HFT Stuttgart

16:30 – 17:00

PV in buildings: Expectations and needs

Thomas Nordmann, Managing Director, TNC Consulting AG

17:00 – 17:30

Roundtable discussion

17:30 – 17:45

Coffee break

17:45 – 19:00

Rump session on “solar cities”

The rump session will be a spontaneous discussion among speakers and audience members on the topic of solar cities. Participants will give brief presentations on recent results, works in progress and other topics of interest to the audience.

Special invited speakers:

Gerhard Stryi-Hipp on prospects for using solar energy in cities

Director Energy Policy/Group Leader Thermal Collectors and Application, Fraunhofer Institute for Solar Energy Systems ISE

Dr Werner Brinker on utility

Chairman of Executive Board, EWE Aktiengesellschaft

and speakers of the day

19:00

Networking cocktail



Towards Zero-Energy Buildings 1

9:00 – 9:30

DGNB – Sustainable building and certification

Christine Lemaitre, Director System, German Sustainable Building Council (DGNB)

9:30 – 10:00

Towards a carbon-neutral city and the Masdar City master plan in Abu Dhabi, U.A.E

Thomas Auer, Managing Director, TRANSSOLAR Energietechnik GmbH

10:00 – 10:30

The concept of solar access assets and liabilities in the built environment – an Australian perspective in the context of building-integrated photovoltaics (BiPV), market drivers and planning process

Dr Mark Snow, Senior Researcher, Faculty of the Built Environment, University of NSW, Sydney, Australia

10:30 – 11:00

Roundtable discussion

11:00 – 11:30

Coffee break

Towards Zero-Energy Buildings 2

11:30 – 12:00

Solar buildings: from nano to urban scale

PhD Andreas Schüler, Group Leader – Nanotechnologies for Solar Energy Conversion, Solar Energy and Building Physics Laboratory/Swiss Federal Institute of Technology in Lausanne (EPFL)

12:00 – 12:30

Zero-energy buildings

Stephen Selkowitz, Head of Building Technologies Department, Lawrence Berkeley National Laboratory

12:30 – 13:00

Net zero-energy buildings – The International Energy Agency (IEA) platform for strategies and experiences

Prof Karsten Voss, Faculty Department Architecture, Structural Physics and Technical Building Services, Bergische Universität Wuppertal

13:00 – 13:15

Roundtable discussion

13:15 – 13:30

BMWi Poster Exhibition for Architecture and Energy

EnOB
Forschung für Energieoptimiertes Bauen

Architektur mit Energie
BMWi Preis Energieoptimiertes Bauen 2009

Hoher Komfort bei minimalem Energiebedarf, niedrige Betriebskosten und innovative Technologien vereint in herausragender Architektur. Dies sind die Maßstäbe für Gebäude der Zukunft, die bei dem mit 100.000 Euro dotierten Preis „Architektur mit Energie“ gesucht werden. Innovative Bauherren, Architekten oder Fachingenieure werden aufgerufen, ihre Neubau- oder Sanierungskonzepte einzureichen und sich um das Preisgeld und eine mögliche Förderung als Modellvorhaben im Forschungsschwerpunkt »Energieoptimiertes Bauen« des Bundesministeriums für Wirtschaft und Technologie (BMW) zu bewerben.

Preise
Die Preissumme des Wettbewerbs beträgt EUR 100.000,-.
Es sollen 10 Preise à EUR 10.000 für ein Bauwerk oder auch ein Gebäudeensemble vergeben werden.

Auslober
Auslober des nicht anonymen Verfahrens ist das Projektteam ENOB MONITOR im Auftrag des BMWi – vertreten durch die Universitäten Wuppertal, Karlsruhe und Dresden sowie das Fraunhofer ISE, Freiburg.

Vorprüfung und Fachjury
Architektur:
Prof. M. Hegger (TU Darmstadt)
D. Reicks (Bau + Reicks, Bielefeld)
Energie:
Prof. W. Feist (FH Darmstadt / Universität Innsbruck)
Prof. K. Voss (Universität Wuppertal)
Forschungspolitik:
Dr. K. Köhler (Bauw)
Bauwirtschaft:
Chr. Sanger (bauw-kt)
Immobilienwirtschaft:
M. Barthauer (ImmobilienLokalität)

Termine
Wettbewerbsunterlagen: ab 1. November 2008 unter www.enob.info
Abgabe der Wettbewerbsbeiträge: 31. März 2009
Die Preisverleihung und Ausstellung der Projekte findet im Rahmen der Berliner Energieloge vom 4.-6. Mai 2009 statt.

Durchführung, Koordination
104 49 planungswerkstatt berlin
Farsenstraße 20, 10243 Berlin
Tel. +49 (0) 30 8729 419-0
Fax +49 (0) 30 8729 419-2
bmwipreis2009@bauw-kt.de planungswerkstatt.de
Ansprechpartner: Dr. Günter Lehmann,
Dipl.-Ing. Andreas Dakowski

Gefördert durch das

PTJ
Projektträger Jülich
Forschungszentrum Jülich

Bundesministerium für Wirtschaft und Technologie

Outstanding architecture that combines optimum comfort with minimum energy requirements, low operating costs and efficient technologies: those were the standards set for the buildings of the future that competed for the first “Architecture and Energy 2009” award, a prize valued at EUR 100,000. Innovative contractors, architects and specialty engineers were asked to submit their new-construction or modernisation concepts and compete for prize money and possible funding as a pilot and demonstration project in the “Energy Optimised Building” research section of Germany’s Federal Ministry for Economic Affairs and Technology (BMW). The competition’s ten winners are presented in an extensive poster exhibition and an accompanying brochure.

13:30 – 14:30

Lunch break and poster exhibition

Building Integration of Solar Thermal Energy

14:30 – 15:00

Solar thermal systems and collectors and building façades

Philippe Papillon, Industrial Research, Development and Innovation, CEA INES

15:00 – 15:30

Building-integrated solar thermal systems, solar cities

Ming Huang, Board Chairman of Himin, Vice President, ISES, and representative of UPC, Himin Solar Energy Group Co., Ltd

15:30 – 16:00

Roundtable discussion

16:00 – 16:30

Coffee break

16:30 – 17:00

Manufacturer view on building integration of solar collectors

Andreas Wagner, Managing Director, Wagner & Co Solartechnik GmbH

17:00 – 17:30

Future of solar thermal in buildings

Dr Karl Höfler, Group Director, Building Energy Division, and Sonja Geier, AEE INTEC

17:30 – 18:00

Roundtable discussion



18:00 – 18:30

Solar Decathlon Competition 2010, Madrid

Poster presentation of candidates

Solar Decathlon Europe, Madrid 2010

The SOLAR DECATHLON Competition was originally organised by the U.S. Department of Energy for universities from around the world to design and build self-sufficient homes that are grid-connected, use solar energy as the only energy source, and are equipped with technologies that permit maximum energy efficiency. After three competitions in the US, the competition is launching its first European edition in Spain in 2010. The Spanish Ministry of Domestic Buildings in cooperation with the U.S. DOE and the Technical University Madrid have announced the competition. The final phase consists of assembling the houses at a central location in Madrid, where the “Solar Village” will be located, in June 2010. The houses will then be open to the public and will participate in ten contests for which the competi-



tion is named – Decathlon – to demonstrate their self-sufficiency and energy efficiency. Approximately 20 university teams from around the world will present their houses. The international poster exhibition will show the designs in development on the way to the Madrid event.

19:45

Depart for Solar Night

20:00

“Solar Night” at Fraunhofer ISE

Networking dinner: Solar Night at Fraunhofer ISE

The well-known Freiburg Solar Night (“Freiburger Solarnacht”) in the autumn of 2009 is being held within the scope of the “Solar Summits Freiburg” conference series for the second time. As evidenced by its success over the past six years, the organiser of this annual event, Fraunhofer Institute for Solar Energy Systems ISE, has created a popular highlight for the branches of the solar industry and the surrounding solar region of Freiburg. Fraunhofer ISE cordially invites you to the seventh Solar Night on Thursday, 15 October 2009, where you can enjoy a relaxed atmosphere for conversations and discussions accompanied by music, entertainment and fine dining.

Meet new solar-industry representatives and get inspiration from each others’ business.

Tickets for Solar Night including beverages and a buffet may be purchased online for EUR 16 each at www.solar-summits.com or directly at the check-in desk at the venue Fraunhofer ISE.

The Future of Renewable Energies in Buildings

9:00 – 9:30

**The impact of climate change on buildings
Energy and environmental quality of the built environment – recent trends**

Prof Mattheos Santamouris, National and Kapodistrian University of Athens

9:30 – 10:00

The building shell of the future

Dr Hans-Martin Henning, Head of Department Thermal Systems and Buildings, Fraunhofer Institute for Solar Energy Systems ISE

10:00 – 10:30

Roundtable discussion

10:30 – 11:00

Coffee break

Final Session

11:00 – 11:30

Multi-functional façades

Prof Wolfgang Streicher, Deputy Institute Chairman, TU Graz, Institute of Thermal Engineering

11:30 – 12:00

**Two zero carbon buildings in north and south Europe:
Expectations vs. actual performance**

Prof Federico Butera, Head of the Research Unit "Energy and Built Environment", Politecnico di Milano, Dept Building & Environment Science & Technology

12:00 – 12:30

**Summary and final discussion and outlook
Solar Summits 2010**

Prof Eicke R. Weber, Director of Fraunhofer Institute for Solar Energy Systems ISE

12:30 – 13:30

Lunch and end of conference

13:30 – 15:00

**Depart for Freiburg tours
(number of participants limited)**

Tour 1

Sustainable city-district planning

Description: Tour of model district "Vauban" and the first surplus-energy community, i.e. Solar Village

Organiser: Innovation Academy e.V.

Group: 20-25 people

Tour 2

Solar energy research at the Fraunhofer Institute for Solar Energy Systems ISE

Description: The largest solar energy research institute in Europe focuses on four major R&D topics, i.e. photovoltaics, solar thermal technology, energy-efficient buildings and hydrogen technology. View the institute premises, an exemplary energy-efficient solar building, and join a guided tour of the exhibition area.

Organiser: Fraunhofer ISE

Group: max. 20 people

Tour 3

"Plusenergie" concepts

Guided tour, presentation and discussion opportunity:

**Engineering and architecture Implementation/
Financing/Marketing**

Tour of "Heliotrop", "Sonnenschiff" and the solar community in Freiburg

Organiser: Rolf Disch Solar Architektur

Group: max. 20 people

"In more and more modern buildings, building shells are being used to generate energy – either using photovoltaics to produce electricity or using solar-thermal collectors to generate heat." Dr. Hans-Martin Henning, Head of Department Thermal Systems and Buildings, Fraunhofer Institute for Solar Energy Systems ISE



Organizer



Messe München International (MMI) is one of the world's leading trade-fair companies. It organizes around 40 trade fairs for capital and consumer goods, and key high-tech industries. Each year over 30,000 exhibitors from more than 100 countries, and over two million visitors from more than 200 countries take part in the events in Munich. In addition, MMI organizes trade fairs in Asia, Russia, the Middle East and South America. With six subsidiaries abroad - in Europe and in Asia - and with 66 foreign representatives serving 89 countries, MMI has a truly global network.

Partners



FWTM – Management and Marketing for the City of Freiburg
FWTM, the Freiburg Marketing and Management Company Ltd. has been developing marketing concepts for the city of Freiburg for more than 20 years. It promotes the city's economy and tourism, organizes congresses and trade fairs as well as numerous events and markets.



Freiburg Green City is internationally known for its environmental approach and its extensive use of solar energy and other renewable energy sources.



The Fraunhofer Institute for Solar Energy Systems ISE conducts research on energy efficiency and renewable energy production in industrial, threshold and developing countries. To this purpose, the Institute develops systems, components, materials and processes for energy-efficient buildings and technical building components, applied optics and functional surfaces, solar thermal technology, renewable power generation and hydrogen technology.



Solar Summits Freiburg

2nd International Conference on Renewable and Efficient Energy Use

Topic 2009: Solar Buildings – Building-Integrated Energy Supply Systems Using the Sun as an Energy Source

14-16 October 2009, Freiburg i. Breisgau, Germany

General Information

Organizer

Messe München GmbH
Messegelände
81823 München, Germany
Tel. (+49 89) 9 49-2 05 45, Fax (+49 89) 9 49-2 05 49
E-mail: theresia.strehler@messe-muenchen.de
www.messe-muenchen.de

Partners

Fraunhofer Institute for Solar Energy Systems ISE
Heidenhofstr. 2
79110 Freiburg
Tel. (+49 7 61) 45 88-0, Fax (+49 7 61) 45 88-90 00
www.ise.fraunhofer.de

FWTM – Management and Marketing for the City of Freiburg
Rathausgasse 33
79098 Freiburg
Tel. (+49 7 61) 38 81-01, Fax (+49 7 61) 3 70 03
www.fwtm.freiburg.de

Venue

Freiburg Concert Hall
Konrad-Adenauer-Platz 1
79098 Freiburg

Closing Date for Registration

9 October 2009

Registration Conditions

The programme and the speakers are subject to change. A refund on the registration fees less an administrative fee of EUR 50 will be made when a written cancellation is received by **14 September 2009**. In case of cancellation after this date or no-show no refunds can be made. The organizer cannot be held responsible for any personal injury, accident, damage to private property or additional expenses incurred to a result of changes of dates, venue, programme or else. Should the conference be cancelled due to force majeure, unavailability of the conference venue, speakers being prevented or else, the organizer reserves the right to cancel the conference. In case of cancellation all participants will promptly be informed. The cancellation due to low attendance will not be made later than two weeks prior to the conference. In this case, all registration fees will be reimbursed.

Current Information

www.solar-summits.com

Please submit your registration online or send the completed form by fax to:

EUROKONGRESS GmbH

Fax: (+49 89) 21 09 86 98

Personal Details

(Please note that the written confirmation and invoice will be sent to this address)

The following address is my home address my company's address

Last Name: _____

First Name: _____

Title: _____

Company/Institute: _____

Dept./Position: _____

Street: _____

Postal Code: _____

City: _____

Country: _____

E-mail: _____

Telephone: _____

Fax: _____

Registration (Please indicate the number of requested tickets)

Conference

The conference fee includes the participation in the conference sessions, coffee breaks, lunches and the conference proceedings.

___ x Conference fee **EUR 599,00**

___ x Conference fee reduced – University discount* **EUR 299,00**

* A written proof is required to qualify for the discount. Therefore we kindly ask you to enclose a *letter of endorsement*.

Social Programme

___ x Networking Dinner ‚Solar Night‘ **EUR 16,00**

___ x Guided Tour 1 „Sustainable City District Planning“ **EUR 45,00**

___ x Guided Tour 2 „Solar energy research at the Fraunhofer Institute for Solar Energy Systems ISE“ **free of charge**

___ x Guided Tour 3 „Plusenergie-Konzepte“ **EUR 45,00**

The registration fees mentioned above include 19% German VAT.

Additional Information

I am interested in sponsoring and exhibition opportunities

Payment

Bank transfer:

Bank: HypoVereinsbank Munich, Account name: Solar Summits
Account No: 654 702 543, Bank code: 700 202 70, IBAN: DE90 7002 0270 0654 7025 43,
BIC/SWIFT: HYVEDEMMXXX

Credit card:

I authorize EUROKONGRESS to charge my credit card mentioned below.

Credit card:

Expiry date:

Credit card bearer: _____

I herewith accept the conditions of participation and cancellation published on the homepage www.solar-summits.com

Date _____ Signature _____