

22nd EU PVSEC: The leading platform for the world's PV specialists

The most inspiring forum for the global PV Solar market

Final Call for Papers

Institutional Support:



Should you wish to be added to our photovoltaic mailing list please contact the Conference Organiser:

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www.photovoltaic-conference.com



Abstracts to be submitted by 29 January 2007

CHAIRMAN'S MESSAGE

It is my privilege and honour to invite you all, you old and familiar as well as you new members of our global PV family to the upcoming 22nd European Photovoltaic Solar Energy Conference and Exhibition in September 2007 in Milano, Italy.

It was exactly 30 years ago when the European Photovoltaic Solar Energy Conference series was started in Luxembourg in September 1977. I personally was not there at the time since I was not yet a member of the PV family then and only a young student eagerly wanting to change the world for the better. What have we then achieved in those past 30 years?

- Well, we have increased the number of registered participants from 400 in Luxembourg to over 2.600 at last year's Dresden conference.
- We have advanced the science and technology to the stage where manufacturing is the issue of the day. I was thoroughly enjoying myself when I actually saw all the business being made at last year's Dresden exhibition, an experience I really haven't had before and there is promise of more to come. Much more.
- We have installed the first few Gigawatts worldwide that represent the energy output of a conventional power station. So we are only at the beginning of a new era.
- We have just seen grid-connected PV power being briefly (for a few hours at lunch time!) actually cheaper than the conventional spot market peak power traded at the European Energy Exchange EEX in Leipzig in July this year. Well, I call this just another milestone in PV history.
- And we see all these new technologies coming out of the laboratories.

I am therefore anxious to particularly welcome to our PV family the next generation of young students that want to change the world for the better. And my message is to them: the work isn't done yet by all means and the race isn't over. We need you all you new as well as you more senior members of our family to gather and to do another step towards realising our dream: cost effective PV electricity for the world.

Looking forward to seeing you all in Milano!

Dr. Gerhard Willeke
 Fraunhofer Institute for Solar Energy Systems
 Freiburg, Germany
 Conference General Chairman



Milano - Galleria Vittorio Emanuele was opened in 1867 by King Vittorio Emanuele

22nd European Photovoltaic Solar Energy Conference and Exhibition

**FIERA MILANO
 Exhibition & Convention Centre
 Milan, Italy**

3-7 September 2007

Institutional Support:

- The European Commission**
- UNESCO – United Nations Educational, Scientific and Cultural Organization**
- WCRE – World Council for Renewable Energy**
- EPIA – European Photovoltaic Industry Association**

**Coordination of the Technical Programme:
 European Commission DG Joint Research Centre**



Conference General Chairman:
Dr. Gerhard Willeke
 Fraunhofer ISE
 Freiburg, Germany



Coordination of the Technical Programme:
Dr. Heinz Ossenbrink
 European Commission
 DG Joint Research Centre



EU PVSEC organised by:
WIP-Renewable Energies
 Munich, Germany

22nd European Photovoltaic Solar Energy Conference and Exhibition, FIERA MILANO, 3-7 September 2007, Milan, Italy

PROGRAMME

The five-day programme will comprise:

- **Plenary lectures** focusing on the state-of-the-art and targets of PV
- **Oral and poster presentations** of specific research, development and demonstration projects, PV applications, PV markets
- **Exhibition of PV products and services**
- **Fora and workshops** on present-day PV issues
- Scientific and Industry tours, a social programme and
- **The 4th EPIA PV Industry Forum**

CONFERENCE SUBJECTS

SUBJECT 1: ADVANCED PHOTOVOLTAICS

1.1 Fundamental Studies

Theoretical studies and visions, PV and hydrogen, measurement, simulation and experimental issues, standards and new equipment

1.2 New Types of Cells and Modules

New materials (nano-technologies, dye sensitized cells, organic materials etc.), new substrates, new cell concepts, new types of interconnections, thermo-photovoltaics, LED-related issues

1.3 Solar Cells, Modules and PV Systems for Space Applications

Materials and processing for very-high efficiency cells and modules for space applications (the family of III-V compounds stacks), heat evacuation issues. Stability and lifetime issues and reliability and performance of space systems

1.4 Terrestrial Concentrator Systems

Materials and processing for very-high efficiency cells and modules for terrestrial applications, testing of cells, devices and system performance, tracking alignment and reliability

SUBJECT 2: WAFER-BASED SILICON SOLAR CELLS AND MATERIALS TECHNOLOGY

2.1 Silicon Feedstock, Crystallisation and Wafering

2.2 Mono- and Multicrystalline Silicon Cells and Materials, Processing Technology of Wafers, Sheets and Ribbons

2.3 Handling Issues and Manufacturing Automation

SUBJECT 3: THIN FILMS

Theoretical studies, preparation, material characterisation, manufacturing and industrialisation of:

3.1 Thin Film Crystalline Silicon

3.2 Amorphous and Microcrystalline Silicon

3.3 CIS, CdTe and Other (II-VI) Ternary Thin Film Cells

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SUBJECT 4: COMPONENTS FOR PV SYSTEMS

4.1 PV Modules

Module design and manufacturing technology, standards and testing of cells, modules, arrays and systems, product quality, standardisation of systems, product life cycle, recycling and cross fertilization

4.2 Power Conditioning Components

Grid interfacing, storage systems, development of standard products and their applications

SUBJECT 5: PV SYSTEMS

5.1 PV Systems in Grid-connected Applications

Technical and utility issues, aesthetical issues and landscape integration for ground-installed systems, minigrids, success stories of projects and programmes, PV for Information and Communication Technologies

5.2 PV Applications in the Built Environment

Cells and modules designed for applications in buildings (geometries, colours, materials, transparencies, dynamic behaviour, innovations in PV-lighting), visibility and aesthetics, cost aspects and potential markets

SUBJECT 6: PV DEPLOYMENT

6.1 Global Aspects of PV Deployment

National and regional support strategies and policies, National and State programmes and their effects, economic issues and cost developments, job creation, international trade, economy of scale: past and future, long-term projections of national and world markets, R&D strategies and programmes

6.2 PV Market Deployment and Finance

PV promotion, markets, creation of awareness, education and training, PV commerce and financing, investments, licensing, solar entrepreneurship, PV economics and externalities

6.3 PV in the Developing World

Stand-alone Systems, hybrid systems, PV in local grids, PV for communication, education, for further uses; PV related social and gender issues, PV for the rural, urban and peri-urban sectors in the developing nations, finance of off-grid PV installations and support programmes, co-operations and transfer of technologies, experiences, success stories, goals and strategies for the future



REVIEW PROCEDURE

Papers will be presented in plenary, oral and poster sessions and all presented papers will be published in the Proceedings. Authors wishing to submit a contribution should read the following instructions carefully and send an abstract to the address given below. The abstract, single spaced and in English, should include:

- Applicable subject number (1 to 6) and subsection (e.g. 1.2)
- Full title
- Full name and address of one author for all correspondence
- For each author and co-authors, full name, affiliation, address, phone/fax/e-mail
- Purpose of the work
- Approach
- Scientific innovation and relevance
- Results
- Conclusions

The abstract should not exceed one page (size A4, 210 x 300mm).

In addition, authors may add up to 3 explanatory pages, which will facilitate the reviewers assessment.

DEADLINE FOR RECEIPT OF ABSTRACTS: 29 January 2007

Only contributions complying with the above specifications will be considered. Please send preferably by email one copy of this complete information (abstract plus optionally up to 3 explanatory pages) as a *.doc or *.pdf file to:

e-mail: pv.manuscripts@wip-munich.de

On-line submission is also offered (please see Conference Website).

For abstract submission by mail, please send a hard copy and a CD-ROM with a *.doc file to:

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The abstracts will not be accessible by public until the Conference. All authors will be notified of the decision of the Programme Committee.

Authors of accepted abstracts will receive special instructions for the preparation of the final papers for the Proceedings.

For more information, please visit www.photovoltaic-conference.com