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NH Hotel München-Dornach
Einsteinring 20
85609 Aschheim-Dornach
Germany

Organisation

Seminarmanagement

Eckardt Günther
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Accommodation

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@nh-hotels.com

Please book your accomodation as soon as possible by yourself.
www.booking.com

The Seminar is in English Language.

Conference Fee

Per Person: € 435,00
Member of OTTI: € 405,00
Businesses from Oberfranken, the Oberpfalz, Lower and Eastern Bavaria: € 405,00
Reduced fee for employees of federal agencies, universities and universities of applied sciences: € 240,00

From the third participant on, every other participant of your company profits from our **15 % discount** on the seminar fee.
Fees cover the invitation to all coffee breaks, lunches, the seminar proceedings and one day admission Intersolar Munich.

Intersolar Munich takes place June 09th - 11th, 2010.

Photo Credits

Tourismusamt München
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Skyline with Alps
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Bavaria

- Yes, I will participate in the get-together on June 7th, 2010 in Hotel Restaurant „Prinzregent“ (self-payment)**
- Yes, I will participate in Monitoring of PV-Systems München-Dornach, Germany, June 7th, 2010 (MEE 3493)**
- I am a member of a public authority/university.**
- We are interested in sponsorship.**

Family name

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Company/Institute

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Postal code/City/ Country

Economic sector

Number of employees

Businesses from Eastern Bavaria

Member number OTTI

Date

Signature/Company stamp

**Ostbayerisches Technologie-Transfer-Institut e.V. (OTTI),
Wernerwerkstraße 4, D-93049 Regensburg**

Conditions of participation and cancellation

You will receive your registration documents with receipt of your registration. The participation fee is VAT-exempt and due net with receipt of the invoice. Please transfer the invoice amount not later than 14 days before the conference starts. Otherwise a copy of the transfer order must be presented at the conference desk. All bank charges have to be covered by the transmitter. Entrance to the conference can only be permitted if OTTI has received the payment. OTTI reserves the right to make modification and amendments of any kind for urgent reasons. In the case of a cancellation of your registration up to 30 days before the seminar takes place, we do not raise a cancellation fee. For cancellations made within a period of 30 to 15 days before the start of the seminar, we charge a service fee of € 120. In the event of cancellations made later than 15 days before the seminar, or in the case of absenteeism, the total participation fee will be charged, unless you are able to provide evidence of a deviating amount of damages or expenses. The cancellation must be in written form. The person representing the contracting party may be replaced at any time but a written notice is necessary not later than 4 days before the conference starts. Irrespective of legal basis, OTTI shall only be liable for property damage and pecuniary loss which occurred due to intent or gross negligence. The place of fulfilment and jurisdiction is Regensburg, Germany.



Leo Solar Traffico GmbH, Ulm, Germany

Monitoring of PV-Systems

**NH Hotel
München-Dornach, Germany
June 7th, 2010**

V-J-2010-02-03

Intersolar 2010

A visit of European's largest solar trade fair is included. The topics are: photovoltaics, solar thermal technology and solar architecture.

Further information:

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**inter
solar 2010**
www.intersolar.de

OTTI  Training
Seminare
Tagungen

www.otti.de



Seminar



Monitoring of PV-Systems

München-Dornach, Germany, June 7th, 2010

We are world champions in the construction of photovoltaic plants. modules, fixation of modules, cables, inverter modules and electric supply – was that all?

Something important is missing:
The monitoring of PV-Systems

In this seminar you will gain tested knowledge for the effective application of monitoring-systems.

Benefit from the speakers' long-time experiences in design and development, sales and in the efficient operation of monitoring systems for photovoltaic solar power systems.

Further information on www.otti.de

For further information about seminars, conferences and upcoming events in the field of Renewable Energies please consult our homepage www.otti.de

Seminar Programme

Monday, June 7th, 2010, 9:30 - 18:00 hrs:

1. Welcome/Introduction

Eckardt Günther, OTTI, Regensburg, Germany

2. Introduction to PV-Monitoring

- Why monitoring?
- Benefits for the installer
- Benefits for the customer
- Use cases

Prof. Gerd Heilscher

3. Specification of PV Monitoring Systems

- Actual products
- How to choose the right monitoring system
- Installation and implementation
- Technical operation

Prof. Gerd Heilscher

4. PV Management and Monitoring: Overview of the U.S. Market

- Market segments
- Monitoring – an essential part of PV systems in the U.S.
- Monitoring solutions for the U.S. market

Tom Tansy

5. Technical Operation of 200 MWp Solar Power Systems - Lessons Learned

- Monitoring, the basis for an efficient technical operation
- Concept of technical operation for solar power systems at juwi
- Value of the service in the sales/after sales process
- Lessons learned

Achim Jung

6. OPC in PV Plant Monitoring and Operations – The Benefits of Using Industry Wide Open Standards

- Operation and monitoring of large-scale PV plants: customer needs
- OPC - open connectivity and industrial applications
- The SMA plant control and monitoring concept
- OPC clients: overview and possibilities
- Lessons learned

Dr. Andreas Paetzold

7. The Role of PV Monitoring for Solar Power Grid Integration in Spain

- Overview of the PV monitoring market in Spain
- Market segments
- How to adapt monitoring solutions for Spain
- Monitoring as a need for the grid integration of solar power in Spain

Humberto Roca

8. How much PV the Grid can take?

- Situation of distribution grids in Germany
- Grid parity
- Do we need a solar grid?

Prof. Gerd Heilscher

9. Discussion/Closing Remarks

Prof. Gerd Heilscher

19:30 hrs:

We have organized an optional **get-together** at Hotel „Prinzregent an der Messe“ (Riemer Straße 350, 81829 München, Phone +49 89 94539-0, **self payment**) starting 19:30 hrs. If you wish to take part please tick the appropriate box (see registration form).

Chairman



Prof. Gerd Heilscher

University of Applied Sciences, Ulm, Germany

Gerd Heilscher is Professor for "Energy Data Management for Decentralized Energy Systems" at the Ulm University of Applied Sciences and head of the institute for energy and automation. He is active in the field of sustainable energy systems since 1988 when he left University of Oldenburg after finishing his Master of Science in Renewable Energies. From 1991 till 2006 he was director of meteocontrol. His actual research topics concentrate on the combination of meteorological and energy related expertise for the further integration of renewable energies into the utility grid.

Your Speakers

Prof. Gerd Heilscher

University of Applied Sciences, Ulm, Germany

Achim Jung

Head of Operation and Maintenance
juwi Solar GmbH, Wörrestadt,
Germany

Dr. Andreas Paetzold

Manager, Product Management,
Communication Products

SMA Solar Technology AG, Niestetal,
Germany

Humberto Roca

Telecommunications and Electronics
Engineer, GreenPowerMonitor S.L.,
Barcelona, Spain

Tom Tansy

Vice President of Marketing
Fat Spaniel Technologies Inc., San
Jose, CA, USA

Your Advantage

- You will learn why monitoring systems are an important part of a solar power system.
- You will receive practice-orientated information about the selection of monitoring systems.
- Experienced speakers will familiarize you with the snares at purchasing, implementing and operating monitoring systems.
- You will learn how the business with new clients will be strengthened through the monitoring of your solar power system.
- You will hear how you can turn customer complaints into a profitable service business.

You will meet

Specialists and managers of the PV-industry with responsibilities for

- Sales
- Marketing
- Service
- Project development
- Technical operations

As well as

- Installation companies for PV-plants
- Engineering and planning offices

- Producers and operators of PV-plants
- Project corporations for the installation of larger PV-plants
- Energy providers
- Energy consultants
- Loan specialists
- Local decision-makers
- Universities, Universities of Applied Sciences, research institutes