

First Announcement and Call for Application

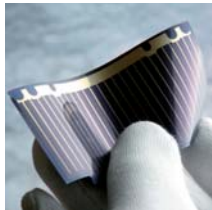
## International Summer School on Photovoltaics and New Concepts of Quantum Solar Energy Conversion

September 7-14, 2014 in Hirschegg, Austria

*tu*  
TECHNISCHE UNIVERSITÄT  
ILMENAU

**HZB** Helmholtz  
Zentrum Berlin

### QUANTSOL



We would like to inform you about the upcoming „International Summer School on Photovoltaics and New Concepts of Quantum Solar Energy Conversion (Quantsol)“ to be held from September 7-14, 2014 in Hirschegg, Kleinwalsertal, Austria. The school is now open for application until June 1, 2014. The school primarily addresses young postdocs, PhD students, and master students in their final year at university with an interest in photovoltaics and solar energy conversion. Please note that due to the strong interest in our school people that have already participated cannot be accepted a second time.

Invited speakers, all recognized scientists from leading world institutions, will give lectures covering a wide range of topics on the fundamental principles of the conversion of solar energy into chemical and electrical energy as well as the physical and technical challenges.

The school will follow the tradition of previous very successful summer schools in 1998, 2001, 2003, 2006-2013. It is organized to be very interactive and the participants and speakers are requested to present their field of research and themselves in a short oral presentation on the first day of the school. Details of the school's program can be found on the webpage:

[www.helmholtz-berlin.de/events/quantsol/index\\_de.html](http://www.helmholtz-berlin.de/events/quantsol/index_de.html)

#### Subjects of the school are

Energy scenarios  
Principles of photovoltaics  
Thermodynamics of solar energy conversion  
Crystalline silicon solar cells  
Thin-film solar cells (silicon, CdTe, CIS)  
Plastic solar cells  
Hybrid solar cells  
Multi junction solar cells with ultimate efficiencies (III-V)  
Material properties  
Light harvesting  
Semiconductor nanostructures and quantum dots  
Photovoltaics on the TW scale  
Solar fuel production

#### Confirmed speakers are

P. Würfel (Karlsruhe Institute of Technology, GER)  
W.C. Sinke (ECN Solar Energy, NL)  
T. Markvart (University of Southampton, UK)  
E. von Hauff (University Amsterdam, NL)  
T. Unold (HZB, GER)  
D. Vanmaekelbergh (University of Utrecht, NL)  
D. Meissner (Tallinn University of Technology, EST)  
T. Hannappel (TU Ilmenau, GER)  
K. Lips (HZB, GER)  
E. Unger (Stanford, USA)  
J.C. Hummelen (University Groningen, NL)

## QUANTSOL

### Location

The lectures will be given in the mountain guesthouse „Waldemar Petersen Haus“ ([www.wphaus.tu-darmstadt.de/wph\\_unserhaus/index.en.jsp](http://www.wphaus.tu-darmstadt.de/wph_unserhaus/index.en.jsp)) of the Technische Universität Darmstadt in Hirschegg (Kleinwalsertal, Austria), where all attendants and lecturers will be lodged.

### School fee

School fee is **450 €** for participants from universities and research institutes and **590 €** for participants from industry. The school fee includes board, lodging, and registration fee.

### Applications

Students who intend to participate in the summer school are required to apply through the school's homepage:

[www.helmholtz-berlin.de/events/quantsol/applications/index\\_de.html](http://www.helmholtz-berlin.de/events/quantsol/applications/index_de.html)

Since the summer school is limited to 55 students, we have a selection procedure. In order to be able to judge on your qualification, you are requested to submit your curriculum vitae plus a short statement that justifies favorable consideration as a participant.

Students that are accepted to participate in the summer school will be notified mid of June 2014 and are then asked to register through the school's homepage and pay the school fee. Further details will be sent out with the notification of acceptance.



Mountain guesthouse  
„Waldemar Petersen Haus“  
of TU Darmstadt in Hirschegg

### Organized and financed by:

Helmholtz-Zentrum Berlin für Materialien und Energie (HZB)  
Ilmenau University of Technology (TU Ilmenau)  
The European Society for Quantum Solar Energy Conversion

### Organizing committee:

Chair and organizers: Prof. Dr. Klaus Lips (HZB, GER)  
Prof. Dr. Thomas Hannappel (TU Ilmenau, GER)

### Contact for further information

E-Mail: [quantsol@helmholtz-berlin.de](mailto:quantsol@helmholtz-berlin.de)

Webpage: [www.helmholtz-berlin.de/events/quantsol/index\\_de.html](http://www.helmholtz-berlin.de/events/quantsol/index_de.html)

**Deadline for application is June 1, 2014 (23:59 Berlin time)**