First Announcement and Call for Application
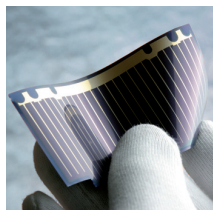
International Summer School on Photovoltaics and New Concepts of Quantum Solar Energy Conversion

September 6-13, 2015 in Hirschegg, Austria

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 6-13, 2015 in Hirschegg, Kleinwalsertal, Austria. The school is now open for application until May 31, 2015.

The school primarily addresses young postdocs, PhD students, and master students in their final year at university with an interest in photovoltaics, photoelectrochemistry, 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, 2006-2014. 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

Subjects of the school are

Energy scenarios
Principles of photovoltaics
Principles of photoelectrochemistry
Thermodynamics of solar energy conversion
Crystalline silicon solar cells
Thin-film solar cells (silicon, CdTe, CIGS)
Plastic solar cells
Perovskite solar cells
Multi junction solar cells with ultimate efficiences (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)
R. van der Krol (HZB, GER)
T. Markvart (University of Southampton, UK)
T. Unold (HZB, GER)
D. Vanmaekelbergh (University of Utrecht, NL)
B. Rech (HZB. GER)
T. Hannappel (TU Ilmenau, GER)
K. Lips (HZB, GER)
E. Unger (Lund University, SWE)
J.C. Hummelen (University Groningen, NL)

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Location
The lectures will be given in the mountain guesthouse „Waldemar Petersen Haus" (**www.tu-darmstadt.de/w.p.haus/**) 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

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 2015 and are then asked to register through the school's homepage and pay the school fee via bank transfer (credit cards are not accepted). Further details will be sent out with the notification of acceptance.
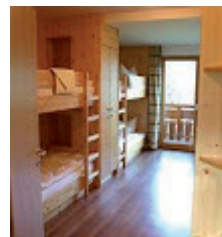
Mountain guesthouse „Waldemar Petersen Haus" of TU Darmstadt in Hirschegg

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
Webpage: www.helmholtz-berlin.de/events/quantsol/index_de.html

Deadline for application is May 31, 2015 (12pm gmt+2).