



1st SunTune workshop

Emerging techniques in photovoltaics: Plasmonics and spectral conversion

31 May to 1 June 2016, Billund, Denmark

About SunTune

The SunTune project is a research project funded by Innovation Fund Denmark aimed at using advanced nanotechnology to develop materials for efficiency improvements in photovoltaics through the mechanism of upconversion and merging these materials with state-of-the-art photo-voltaic materials to develop high-efficiency solar cells of commercial interest.

Topics

This workshop is held as the first workshop in relation to the topics of relevance for the SunTune research project. At this meeting, the focus will mainly be on associated scientific questions, but the participation of industrial partners will ensure that industrial feasibility is underlying the scientific discussions. The detailed application-relevant questions will be the topic of a future workshop.

Tentative list of focus areas:

- Light/photon management in photovoltaics
- Upconversion materials and processes
- Plasmonic effects and applications
- Modeling electromagnetic interactions of relevance for photovoltaics
- Mapping optical near fields by ultrashort laser pulses

Conference site

The conference will be held at Hotel LEGOLAND, a 4 star hotel and 5 star conference center only 3 km from Billund Airport, which is well served by international connections. Hotel LEGOLAND is of course inspired by the famous LEGO-brick, and the entire conference setting is a mixture of professionalism, playfulness and relaxation, ensuring just the right atmosphere for a great SunTune workshop. After a productive meeting-day, Hotel LEGOLAND offers a variety of facilities for both body and mind. You may re-energize yourself in the fitness area, take a refreshing stroll in their beautiful sculpture park, or relax in their lounge or game zone before we enjoy a nice three course dinner in the Panorama Restaurant.

Deadlines

- | | |
|-------------------------------|----------|
| • Abstract submission: | 17 April |
| • Notification of acceptance: | 20 April |
| • Registration closes: | 28 April |
| • Conference start: | 31 May |

Conference fees

| | |
|---------------------------------------|------------------|
| Registration including accommodation: | 2490 DKK (334 €) |
| Registration without accommodation | 1595 DKK (214 €) |

The conference fees include all catering.

Registration and abstract submission

Registration must be performed online at https://auws.au.dk/SunTune_Workshop_16 no later than April 28th 2016. Please send abstracts by e-mail to our project secretary Mai Korsbæk at mkorsbaek@phys.au.dk no later than April 17th. Abstracts should be one page print ready pdf files. Please specify in the e-mail if oral or poster presentation is preferred.

Meeting format – no proceedings

We encourage all participants to bring their most recent results. In order to promote the scientific discussions, there will be no proceedings from the meeting, and participants are obliged to treat presented results as private communication that is not for public use – in a “Gordon-conference” style meeting.

List of confirmed invited speakers

Dr. Jan C. Goldschmidt, Fraunhofer-Institute for Solar Energy Systems ISE, Freiburg, Germany
Dr. Andrea Toma, Plasmon NanoTechnologies, Italian Institute of Technology, Genova, Italy

Tentative list of SunTune speakers

CEO Yakov Safir, Racell – Sapphire Group, Denmark
Assoc. Prof. Morten Madsen, University of Southern Denmark, Sønderborg, Denmark
Prof. Ole Sigmund, Technical University of Denmark, Lyngby, Denmark
R&D Eng. Razvan Roescu, International Solar Energy Research Center, Konstanz, Germany

Local organizing committee

Adnan Nazir, Dept. of Physics and Astronomy, Aarhus University, Aarhus, Denmark
Søren Peder Madsen, Dept. of Engineering, Aarhus University, Aarhus, Denmark
Brian Julsgaard, Dept. of Physics and Astronomy, Aarhus University, Aarhus, Denmark
Peter Balling, Dept. of Physics and Astronomy, Aarhus University, Aarhus, Denmark

Conference secretary

Mai Korsbæk mkorsbaek@phys.au.dk

SunTune partners:



Funding:

