

Zurich University  
of Applied Sciences



Life Sciences and  
Facility Management

Institute of Chemistry and  
Biological Chemistry



# 4th Wädenswil Day of Chemistry

## Solar Energy - Chemical Solutions

June 21, 2012

Campus Reidbach, Wädenswil, Switzerland  
[www.icbc.zhaw.ch](http://www.icbc.zhaw.ch)

Zurich Universities of Applied Sciences and Arts



2012  
INTERNATIONAL YEAR OF  
SUSTAINABLE  
ENERGY FOR ALL

# Introduction

Sunlight is the most abundant and reliable source of energy available to humanity. In order to provide a truly widespread primary energy source, solar energy must be harvested, converted, and stored in a cost-effective manner. These three key steps require scientific and technological breakthroughs. Chemistry contributes to this development by creating new materials for capturing sunlight, converting light to electricity, enabling light-driven reactions, or increasing the long-term stability of solar cells.

The 4th Wädenswil Day of Chemistry focuses on innovative concepts towards efficient, sustainable, and affordable solar energy technologies. The symposium brings together scientists from various fields of solar energy research, covering the critical processes from light-harvesting to storage, and offers a platform for discussing the bright future of solar energy.

## Exhibitors:

The following companies will be represented with an exhibition booth at the conference.

- Chemie Brunschwig AG ([www.brunschwig-ch.com](http://www.brunschwig-ch.com))
- Sigma-Aldrich Chemie GmbH ([www.sigmaaldrich.com](http://www.sigmaaldrich.com))

# Programme - Thursday, June 21

- 09.30 - 10.15 Registration and exhibition
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- 10.15 - 10.20 **Welcome message**  
Prof. Dr. Christian Hinderling, ZHAW
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- 10.20 - 11.00 **Photovoltaics in Switzerland - the cycle of research, technology, industry and markets**  
Dr. Stefan Nowak, Programme Manager,  
Swiss Photovoltaic Research Programme,  
Swiss Federal Office of Energy
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- 11.00 - 11.40 **Sustainable materials chemistry - working with light at interfaces**  
Prof. Dr. Edwin Constable, Department of Chemistry,  
University of Basel
- 
- 11.40 - 12.00 **Exhibitor lecture**  
Dr. Jianwei Tong, Sigma-Aldrich Chemie GmbH
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- 12.00 - 13.30 Lunch and exhibition
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- 13.30 - 14.10 **Modeling and simulation of photoelectrochemical cells**  
Dr. Matthias Schmid, ZHAW
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- 14.10 - 14.50 **New trends in organic materials based solar cells**  
Prof. Dr. Frank Nüesch, EMPA
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- 14.50 - 15.30 Coffee break and exhibition
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- 15.30 - 16.10 **Running chemical reactions at ultra-high temperatures for solar energy storage - potential and challenges**  
Dr. Ivo Alxneit, Solar Technology Laboratory, PSI
- 
- 16.10 - 16.50 **Luminescent solar concentrators**  
PD Dr. Dominik Brühwiler, ZHAW
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- 16.50 - 17.00 **Closing remarks**  
Prof. Dr. Christian Hinderling, ZHAW
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- 17.00 - 18.00 Aperitif
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# Information

## Organisation

ZHAW Zurich University of Applied Sciences  
Institute of Chemistry and Biological Chemistry  
Marianne Schenker  
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## Fees

Conference CHF 150.–  
(including coffee break, lunch, aperitif)

## Registration

Online registration and further information: [www.icbc.zhaw.ch](http://www.icbc.zhaw.ch)  
E-mail: [weiterbildung.lsfm@zhaw.ch](mailto:weiterbildung.lsfm@zhaw.ch)

The registration deadline is June 12, 2012.  
Cancellation before June 20, 2012: 50% of registration fee,  
Cancellation as from June 20, 2012: 100% of registration fee.

# Venue

The conference is to be held at the Campus Reidbach in Wädenswil at the Institute of Chemistry and Biological Chemistry, part of the ZHAW School of Life Sciences and Facility Management  
Einsiedlerstrasse 31, 8820 Wädenswil  
([www.lsfm.zhaw.ch](http://www.lsfm.zhaw.ch)).

# How to find us

## From Zurich to Wädenswil

### By train

From Zurich's main railway station (Hauptbahnhof) to Wädenswil, trains five times an hour (S2, S8, Interregio),  
journey time 20–30 minutes / for details see [www.sbb.ch](http://www.sbb.ch).

### By car

Leave the A3 motorway (Zurich-Chur) at the exit "Richterswil" and follow the road towards Wädenswil. Campus Reidbach is situated in the Tuwag Areal, Einsiedlerstrasse 31, 8820 Wädenswil.

## Map

[www.lsfm.zhaw.ch/en/lsfm/about-us/locations](http://www.lsfm.zhaw.ch/en/lsfm/about-us/locations)