

postage

EMPA  
Ursula Woldrich  
Überlandstrasse 129  
CH-8600 Dübendorf

### ■ General information

Web link [www.empa.ch/ls](http://www.empa.ch/ls)

Costs free of charge

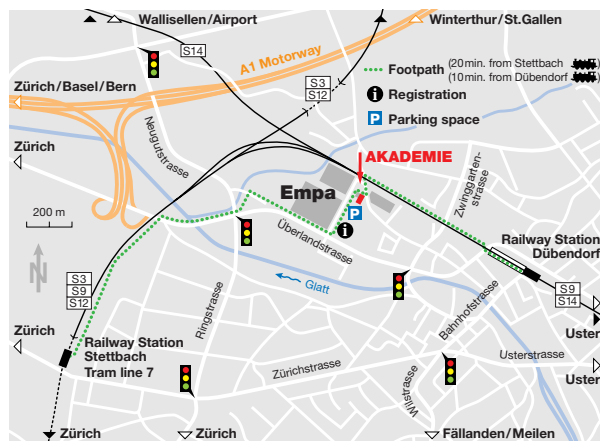
Registration deadline April 23, 2004

Registration EMPA  
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Reservation [www.zurichtourism.ch](http://www.zurichtourism.ch)

Contact EMPA  
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Feuerwerkerstrasse 39  
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### ■ Map



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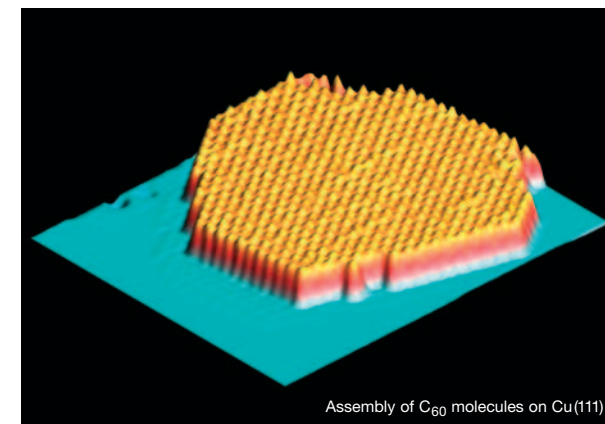


Zentrum für Wissenstransfer

Colloquium

## Headways in Materials Sciences

60th birthday of  
Prof. Dr. Louis Schlapbach



Assembly of C<sub>60</sub> molecules on Cu(111)

EMPA, CH-8600 Dübendorf  
**AKADEMIE**  
Überlandstrasse 129

**Friday, May 14, 2004**  
9 am to 6 pm

## ■ Scope

The goal of the meeting is to highlight recent progress in materials sciences and to outline its potentials and prospects for this century. The invited speakers work in fields such as the exploration of basic mechanisms, the theoretical description and simulation of these mechanisms, efforts to control them by nanotechnology, the development of new materials and its cross talk to biology. The lectures will cover aspects of fundamental research, applied science, development of new technologies and politics. The meeting is organized to reflect the work and perspectives of Louis Schlapbach. His 60th birthday will be celebrated with a dinner and more informal talks in the evening.

## ■ Speakers

### Prof. Dr. Ueli Aebi

Biozentrum, Universität Basel (CH)  
ueli.aebi@unibas.ch

### Dr. Stephan Bieri

Eidg. Fachhochschulkommission EFHK, Dübendorf (CH)  
swbieri@bluewin.ch

### Prof. Dr. Jean-Marie Dubois

CNRS, Nancy (F)  
jean-marie.dubois@mines.u-nancy.fr

### Prof. Dr. Gerhard Ertl

Fritz-Haber-Institut, Berlin (D)  
ertl@fhi-berlin.mpg.de

### Prof. Dr. Hans-Joachim Güntherodt

NCCR Nanoscale Science, Universität Basel (CH)  
hans-joachim.guentherodt@unibas.ch

### Prof. Dr. Michele Parrinello

Swiss Center for Scientific Computing, Manno (CH)  
parrinello@cscs.ch

### Prof. Dr. Seijirau Suda

Kogakuin University, Tokyo (Japan)  
bt73093@ns.kogakuin.ac.jp

### Prof. Dr. Stefan Hufner (evening)

Saarbrücken (D)  
huefner@rz.uni-sb.de

## ■ Program

- 9 am **Opening**  
Peter Richner
- 9.15 am **Reactions at Surfaces:  
From Atoms to Complexity**  
Gerhard Ertl
- 10 am **The 4-States of Hydrogen at the Extreme  
Surface of Metallic Compounds – How to  
Apply Hydrogen as the Energy Carrier**  
Seiji Suda
- 10.45 am **Coffee Break**
- 11.15 am **Escaping Free Energy Minima  
with Minimal Effort**  
Michele Parrinello
- 12 am **A New Frontier in Louis's Life:  
Complex Metallic Alloys**  
Jean-Marie Dubois
- 12.45 am **Lunch break**
- 3 pm **Energy Policy and Material Sciences:  
A Simple Systems Analysis Approach**  
Stephan Bieri
- 3.45 pm **The Impact of Scanning Probe Methods  
(SPM) on Material Sciences**  
Hans-Joachim Güntherodt
- 4.30 pm **Nanobiology:  
Moving from the Bench to the Bedside**  
Ueli Aebi
- 5.15 pm **Outlook/Conclusions**  
Peter Richner
- 5.30 pm **Cocktails**
- 7 pm **Dinner**

# Registration Form

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60th birthday of  
Prof. Dr. Louis Schlapbach

Friday, May 14, 2004, 9 am to 6 pm

AKADEMIE, Überlandstrasse 129, CH-8600 Dübendorf

Participation is free of charge, but registration is required.  
Please indicate if you are staying for dinner.

**Registration deadline: April 23, 2004.** All registrations  
will be confirmed on receipt. A maximum of 120 people can  
be accepted in order of registration.

I will be attending the dinner  yes  no

Accompanying person  yes  no

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Signature \_\_\_\_\_