



are pleased to invite you to the fourth Nano-Tera workshop on

## Innovative sensors in the Nano-Tera program

held on **June 21<sup>st</sup> and 22<sup>nd</sup>, 2011** at La Rouvraie, Bevaix, NE

### Scientific content

- Tutorials and keynote presentations by senior researchers on *Innovative sensors in the Nano-Tera program*

Confirmed speakers:

- |  |   |
|--|---|
| ➤ <b>Cosmin Roman</b> , ETHZ                         | ➤ <b>Michel Calame</b> , University of Basel                            |
| ➤ <b>David Atienza</b> , EPFL                        | ➤ <b>Tobias Kippenberg</b> , EPFL                                       |
| ➤ <b>Harry Heinzlmann</b> , CSEM                     | ➤ <b>Stéphanie Pasche</b> , CSEM  |
| ➤ <b>Martial Geiser</b> , HES-SO VS                  | ➤ <b>Yves De Coulon</b> , Neraxis-Veolia Water Solutions & Technologies |
| ➤ <b>Martin Wolf</b> , University Hospital of Zurich |   |

- Brief projects presentations by participants

### Organization

- Starting at 2 pm, on Tuesday June 21<sup>st</sup>, ending in the afternoon on Wednesday June 22<sup>nd</sup>
- As the social aspect is important, we are organizing a delicious dinner for you, followed by an optional night excursion in the surrounding area
- Accommodation will be arranged in comfortable single or double rooms, number of rooms is limited, please register as soon as possible.

**The event costs 120 CHF for all participants (including meals, accommodation in single or double rooms)**

The number of places is limited! Please register as soon as possible by email to [nano-tera@fsrm.ch](mailto:nano-tera@fsrm.ch)

**Final deadline: May 20<sup>th</sup>, 2011**

**Contact: Céline Auberson – [nano-tera@fsrm.ch](mailto:nano-tera@fsrm.ch) – 032 720 09 10**

*Preliminary program* ▶▶





nano-tera.ch  
swiss scientific initiative in health / security / environment systems



## Innovative sensors in the Nano-Tera program

### Preliminary program

#### Tuesday, June 21st, 2011

13:30 Bus pick up at Bevaix train station → La Rouvraie

14:00 Welcome drink at La Rouvraie  
Introduction to Nano-Tera

#### Presentations:

- Martial Geiser, HES-SO Valais  
*Micro fluidic stand alone system with fluorescence detection*
- Martin Wolf, University Hospital of Zurich  
*Bringing light in tissue diagnosis: Sensors based on near-infrared spectroscopy and imaging*
- Michel Calame, Université de Bâle  
*Dual-gated Si nanowire FETs for ion- and biosensing*
- Stéphanie Pasche, CSEM  
*Technology integration into textiles for sensing*
- Presentations of research work by participants  
If interested to give a short presentation of your work, please announce it to [nano-tera@fsrm.ch](mailto:nano-tera@fsrm.ch)

18:30 Convivial dinner

19:30 Social excursion in the surroundings  
About 1 hour, optional

#### Wednesday, June 22nd, 2011

8:00 Breakfast

9:00 Presentations:

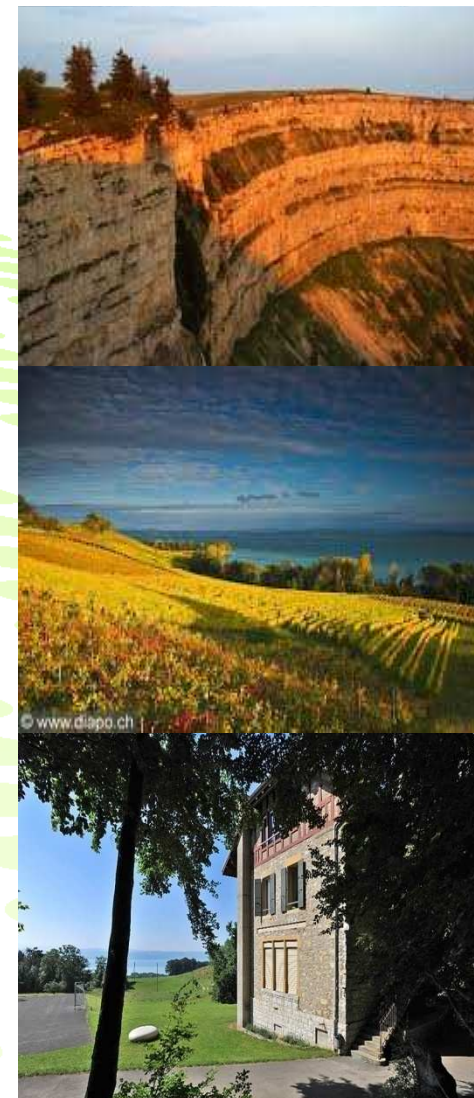
- Yves De Coulon, Neroxis - Veolia Water Solutions & Technologies  
*Kapta™3000, Sensor Network and Solution to Manage and Secure the Drinking Water Distribution in Real Time*
- David Atienza, EPFL  
*System-Level Design of Ultra-Low-Power Architectures for Wireless Body Sensor Networks*
- Tobias Kippenberg, EPFL  
*Chip-scale optical frequency combs for near and mid-infrared*

12:00 Lunch

13:30 Presentations:

- Cosmin Roman, ETHZ  
*Tunable Carbon Nanotube Resonators for Sensing and Electronics Applications*
- Harry Heinzelmann, CSEM  
*Cantilever based sensing for cancer research*

15:00 Final discussions & conclusions



Access by car:

<http://www.larouvraie.ch/fr/presentation/acces-contact>

For people coming by train, meeting is at 13:30 at Bevaix train station. A bus will drive us directly to la Rouvraie

This program will be continuously updated at <http://www.fsrm.ch/nano-tera/workshop.pdf>