



2<sup>nd</sup> announcement

IUVSTA International Summer School

# Science and Technology at Nanoscale

6<sup>th</sup> - 11<sup>th</sup> June 2005

Tři Studně, Czech Republic

## Organized by:

International Union for Vacuum Science,  
Technique, and Applications (IUVSTA) and

- Brno University of Technology
- Institute of Physics, Academy of Sciences,  
Prague
- Charles University, Prague
- Masaryk University, Brno
- Czech Technical University, Prague
- Czech Physical Society
- Czech Vacuum Society
- Czech Nanoteam

## Program Committee:

H. H. Brongersma, Calipso  
C. F. J. Flipse, Eindhoven University of Technology  
I. Kamiya, Toyota Technological Institute, Nagoya  
P. Varga, Vienna University of Technology

## Contact for further information:

e-mail: [iss@fzu.cz](mailto:iss@fzu.cz)  
web page: [www.fzu.cz/~iss](http://www.fzu.cz/~iss)

We would like to invite you to the International Summer School on **Science and Technology at Nanoscale**, to be held from 6<sup>th</sup> to 11<sup>th</sup> June 2005 in the Czech Republic.

Invited speakers from the leading world research centers will cover a range of topics in nanotechnology and in thin film and surface science. Details of the school programme are given overleaf. This announcement brings you also information about the school venue and instructions for paying the school fee.

The school is supported by International Union for Vacuum Science, Technique and Applications (IUVSTA) and by several companies who will also participate in the exhibition of their techniques and products. Thanks to their contributions we can offer a reasonably low school fee.

We would also like to invite you to present your own research at the poster session.

We hope that the school will follow the tradition of highly successful previous summer schools and we are looking forward to seeing you in Tři Studně.

## Local organizing committee: in Brno:

T. Šikola, L. Dittrichová, J. Humlíček, J. Spousta

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Technická 2, 616 69 Brno, Czech Republic  
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## in Prague:

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e-mail: [fejfar@fzu.cz](mailto:fejfar@fzu.cz)

## SCHOOL FEE:

includes board, lodging and the registration fee. It does not cover transport costs. Please transfer the school fee to our account as follows:

## for participants from abroad

the school fee is **160 Euro**

bank name: Komerční banka a.s.  
Nám. Svobody 21, 631 31 Brno, Česká republika  
account no.: 27-7494090297/0100  
account name: EUR-FSI VUT V BRNE  
IBAN: CZ66 0100 0000 2774 9409 0297  
swift: KOMBCZPPXXX  
payment details: 1340017 + *Your surname*

## for participants from the Czech Republic

the regular school fee is **4700 Kč**

thanks to our sponsors the reduced fee for students from the Czech Republic is **3600 Kč**

název banky: Komerční banka a.s.  
Nám. Svobody 21, 631 31 Brno, Česká republika  
číslo účtu: 19-5121640277/0100  
název účtu: Vysoké učení technické v Brně  
IBAN: CZ75 0100 0000 1951 2164 0277  
swift: KOMBCZPPXXX  
účel platby: 1340017 + *Vaše příjmení*

Participants are kindly asked to keep a copy of the bank transfer order and to present it upon the arrival during the registration at the school.

## SCHOOL VENUE:

Askino - Hotel Horník  
Tři Studně,  
592 04 Fryšava pod Žákovou horou  
Phone: (+420) 566 619 234

Travelling instructions and further information will be sent to the registered participants in the final announcement in May 2005.

Preliminary program of the  
IUVSTA International Summer School

# Science and Technology at Nanoscale

6<sup>th</sup> - 11<sup>th</sup> June 2005,  
Tři Studně, Czech Republic

## Proximal probe methods

R. WIESENDANGER  
University of Hamburg,  
Germany

**Scanning probe  
methods**

P. VARGA  
Vienna University of  
Technology, Austria

**STM at atomic  
resolution**

K. H. RIEDER  
Freie Universität Berlin,  
Germany

**Imaging and  
manipulation on  
atomic scale**

## Particles and assemblies

I. KAMIYA  
Toyota Technological  
Institute, Nagoya, Japan

**Synthesis, Epitaxy, and  
Application of  
Nanostructures**

J. SAGIV  
Weizmann Institute of  
Science, Israel

**From Molecules to  
Self-Assembly  
Nanoscale Devices**

## Functionalization

M. STUTZMANN  
Walter Schottky Institute,  
Garching, Germany

**Biofunctionalized  
semiconductors**

U. S. SCHUBERT  
Eindhoven University of  
Technology, The  
Netherlands

**Local functionalization**

## Nanoscale electronics and photonics

L. PAVESI  
Trento University, Italy

**Silicon photonics**

T. JUNGWIRTH  
Institute of Physics,  
Academy of Sciences of  
the Czech Republic  
Prague

**Using spin in future  
electronic devices**

S. A. MAIER  
University of Bath,  
United Kingdom

**Plasmonics - route to  
nanoscale optical  
devices**

## General

C. F. J. FLIPSE  
Eindhoven University of  
Technology, The  
Netherlands

**Electron many-body  
effects studied with  
STM**

M. DRUCKMÜLLER  
Technical University  
Brno, Czech Republic

**Extracting information  
from images**

## Panel discussion

H. H. BRONGERSMA  
Calipso, Eindhoven, The  
Netherlands  
and  
I. KAMIYA  
Toyota Technological  
Institut, Nagoya, Japan

**Research and industry,  
do they need each  
other?**

Speakers will present their topics in two 45 min  
lectures separated by about half-a-day. We expect the  
following school timetable:

Monday 6.6.	Tuesday 7.6.	Wednesday 8.6.	Thursday 9.6.	Friday 10.6.
Arrival	Rieder 2 Maier 2 Kamiya 2	Sagiv 2 Varga 1 Schubert 2	Varga 2 Druckmüller 2 Jungwirth 1	Stutzmann 2 Pavesi 1 Wiesendanger 2
Flipse 1 Rieder 1 Maier 1 Kamiya 1	Sagiv 1 Schubert 1 Druckmüller 1	<b>Excursion</b>	Wiesendanger 1 Stutzmann 1 Jungwirth 2	Pavesi 2 Flipse 2
<b>student mixer</b>	<b>poster session</b>	<b>company evening</b>	<b>panel discussion</b>	<b>banquet</b>