Final announcement of the 9th IUVSTA School:

International Summer School on **Physics at Nanoscale**

16th – 21st June 2008

Devět Skal,

Czech Republic

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

Organized by:
International Union for Vacuum Science, Technique and Applications together with

- Czech Nanoteam
- Brno University of Technology
- Institute of Physics, Academy of Sciences of the Czech Republic, Prague
- Charles University, Prague
- Masaryk University, Brno
- J. E. Purkinje University in Ústí nad Labem
- Czech Technical University, Prague
- Czech Physical Society
- Czech Vacuum Society

Contact for further information:
e-mail: iss@fzu.cz
web page: www.fzu.cz/~iss

Dear participants,

please find the last information about the International Summer School on Physics at Nanoscale. We can look forward to a rich and interesting **programme** (see the other side).

The school also provides ample time for discussions and relaxing after the lectures. Hotel Devět Skal is located in a small recreation resort Sněžné-Milovy in the pleasant area of the Czech-Moravian highlands and surrounding countryside is ideal for hiking, biking or enjoying the lakes.

An important part of the school program is the **poster** session, where the participants present their research interests and results. We would very much like to encourage you to bring a poster to introduce your research to the others and receive the feedback. The best posters will be awarded!

The school starts by lunch on Monday June 16th and ends by breakfast on Sat. June 21st. The **check-in** desk will be open from 10 a. m. on Monday. If you come from abroad and you would like to check-in already on Sunday or if you have some other wish, please inform us.

Please find more information about the travelling to the school venue below. If any problem would arise, you can call us any time to the mobile phones:
Antonin Fejfar (+420) 721 315 348
Tomas Sikola (+420) 602 158 095

We are looking forward to seeing you at school!

A. Fejfar and T. Šikola
On behalf of the school organizers

SCHOOL VENUE:
Orea - Hotel Devět Skal
Sněžné - Milovy 11, 592 02 Svratka
Phone: (+420) 566 585 541
GPS: 49°40'4.58"N,16°5'22.86"E

If you come by train:
The nearest railway station is Žďár nad Sázavou on the major railway line connecting Praha and Brno.
On Monday June 16th we will provide bus shuttle from Žďár nad Sázavou connecting to the two express trains:
1) express 277 Slovan from Prague main station (Praha hlavní nádraží), departing at 7:47, arriving to Žďár nad Sázavou at 10:27.
2) express 674 from Brno main station (Brno hlavní nádraží), departing at 8:24, arriving to Žďár at 9:31.
After the school, the school bus will take participants on Saturday 21st June to Žďár to connect to train R674 at 9:32, arriving to Prague at 12:09, or to train R1203 Jadran at 10:29, arriving to Brno at 11:34.

If you come by car:
From Prague: take the highway D1 and leave it at the exit Humpolec. Follow the route 34, direction Havlíčkův Brod, to Hlinsko and there take the route 343 to Svratka and then 354 to Milovy.
From Brno: leave the highway D1 at the exit Velká Bíteš and go to Žďár via the route 37. From Žďár take the route 353 to Sněžné and there route 354 to Milovy (see also the map at www.fzu.cz/~iss).

School programme:

Monday 16.6.	
13:00-13:15	opening
13:15-14:00	Y. KANEMITSU (Kyoto University): Nanophotonics 1
14:00-14:45	J. GOMEZ RIVAS (FOM Institute AMOLF, Philips, Eindhoven): Nanowires and nanoplasmonics 1
15:15-15:45	coffee break
15:45-16:30	L. RANNO (Inst. Néel, Grenoble): Magnetism and spintronics 1
16:30-17:15	J. WUNDERLICH (Hitachi Cambridge Laboratory): Spintronics devices based on Tunneling Anisotropic Magneto-resistance and Coulomb Blockade Anisotropic Magnetoresistance 1
17:15-18:00	KANEMITSU: Nanophotonics 2
18:00-20:00	Dinner
20:00 ->	student mixer

Tuesday 17.6.	
8:00-9:00	breakfast
9:00-9:45	K. LIPS (HMI Berlin): Nanostructures and spin resonance 1
9:45-10:30	WUNDERLICH: Spintronic Devices 2
10:30-11:00	coffee break
11:00-11:45	RANNO: Magnetism 2
11:45-12:30	LIPS: Spin resonance 2
12:30	Lunch
15:30-16:15	A. SHAH (IMT, Univ. Neuchatel): Thin- film silicon solar cells 1
16:15-17:00	A. ZABAN (Bar Ilan Univ., Ramat Gan): Nanocrystalline solar cells 1
17:00-17:30	coffee break
17:30-18:15	J. HOMOLA (Inst. of Photonics and electronics AS CR, Prague): Biosensors with surface plasmons
18:15-19:00	B. REZEK (Inst. of Physics AS, Prague): Functionalized diamond surfaces
19:00-20:30	Dinner
20:30 ->	Poster session

Wednesday 18.6.	
8:00-9:00	breakfast
9:00-9:45	SHAH: Thin film solar cells 2
9:45-10:30	T. SCHMIDT (Univ. Sydney): Nanostructures for next-generation solar cells 1
10:30-11:00	coffee break
11:00-11:45	R. JANSSEN (Eindhoven Univ. of Technology): Organic solar cells 1
11:45-12:30	ZABAN: Nanocrystalline solar cells 2
12:30	lunch

School excursion

19:00->	Buffet dinner
20:30 ->	Company evening:

List of participating companies:

Anfatec (www.anfatec.de)
Chromspec (www.chromspec.cz)
FEI Czech Republic (www.fei.cz)
H-Test (www.htest.cz)
HVM Plasma (www.hvm.cz)
Q-Cells (www.qcells.de)
Labimex (www.labimex.cz)
Manfred Bauman Science Services
Oerlikon Solar (www.oerlikon.com/solar)
Omicron Nanotechnology (www.omicron.de)
On Semiconductor (www.onsemi.com)
Optaglio (www.optaglio.cz)
Pfeiffer Vacuum Austria (www.pfeiffer-vacuum.net)
Pragolab (www.pragolab.cz)
RMI (www.rmi.cz)
SHM (www.shm-cz.cz)
Spolchemie (www.spolchemie.cz)
Optik Instruments (www.brukeroptics.cz)
Tescan (www.tescan.cz)
UniExport Instruments (www.uniexport.co.cz)

Bonfire

Thursday 19.6.	
8:00-9:00	breakfast
9:00-9:45	SCHMIDT: Nanostructures for solar cells 2
9:45-10:30	JANSSEN: Organic solar cells 2
10:30-11:00	coffee break
11:00-11:45	D. VUILLAUME (CNRS, Villeneuve): Molecular nanostructures and devices: electronic properties, status and perspectives 1
11:45-12:30	S. MAIER (Imperial College, London): Plasmonics 1
12:30	Lunch
15:30-16:15	B. ALTSHULER (Columbia Univ. New York): Metamaterials 1
16:15-17:00	MAIER: Plasmonics 2
17:00-17:30	coffee break
17:30-18:15	VUILLAUME: Molecular Nanostructures 2
18:15-19:00	K. ENSSLIN (ETH Zürich): Electronic properties of quantum dots 1
19:00-20:30	Dinner
20:30 ->	Panel discussion

Friday 20.6.	
8:00-9:00	Breakfast
9:00-9:45	ALTSHULER: Metamaterials 2
9:45-10:30	ENSSLIN: Quantum dots 2
10:30-11:00	coffee break
11:00-11:45	P. VARGA (Vienna University of Technology): Surface nanostructures 1
11:45-12:30	G. KRESSE (Vienna University of Technology): Ab-initio simulations 1
12:30	Lunch
15:30-16:15	KRESSE: Ab-initio simulations 2
16:15-17:00	GOMEZ RIVAS: Nanowires and nanoplasmonics
17:00-17:45	VARGA: Surface nanostructures 2

Banquet

Saturday 21.6.	
8:00-10:00	breakfast
9:00-12:00	departure