

International Summer School on Physics at Nanoscale

Nanostructures, Surfaces and Thin Films
Nano-Optics and Photonics
Nanoelectronics and Spintronics
Nanostructured Energy Conversion Devices

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Skalský Dvůr, Czech Republic
1st - 6th June 2020

Part of the series of schools held every 3 years:

[16th IUVSTA summer school 2017](#)

[International summer school 2014](#)

[10th IUVSTA summer school 2011](#)

[9th IUVSTA summer school 2008](#)

[8th IUVSTA summer school 2005](#)

[International summer school 2002](#)

Organizers

- Organized by consortium:
 - Central European Institute of Technology
 - Czech Academy of Sciences
 - Universities:
 - Prague (2), Brno (2), Ústí nad Labem
 - Societies:
 - Czech Physical Society, Czech Vacuum Society



+ IUUVSTA

Nanometer Structures Division

Surface Science Division



Dedication



One of the key organizers used to be late Peter Varga, who took part in all schools listed above and even before, as the school history is longer, reaching back to 1990. His role was so significant that we would like to dedicate the school to him.

Institut für Angewandte Physik
der Technischen Universität Wien

TU Wien » Institut für Angewandte Physik » Surface Physics » Group Members

Peter Varga

summer school: <http://iss.fzu.cz/>

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International Summer School on Physics at Nanoscale

9th - 14th June 2014
Devět Skal, Czech Republic

School flyer download



Prof. Lars
Montelius
lecturing at the
school in 2014

Organizers

Czech Nanoteam
Institute of Physics AS CR
Brno University of Technology
CEITEC
Charles University
Masaryk University
Czech Technical University
J. E. Purkinje University
Czech Physical Society
Czech Vacuum Society

Sponsors

ActiveAir
Aurion
Chromspec
FEI Czech Republic
HVM Plasma
Ion TOF
MT-M
Omicron NanoTechnology
ON Semiconductor
Optik Instruments
Pfeiffer Vacuum Austria
Raith
RMI
Sigma Aldrich
Specion
SPECS
TESCAN ORSAY HOLDING
TESTE
Uni-Export Instruments
Vakuum Praha
WITec

The programme of the schools aimed at presenting current trends of research at both tutorial as well as state-of-the-art level. The school has also connected the areas of fundamental research to the vital areas of technology: nano-electronics, renewable energy and life science applications.

The school was organized jointly by **CEITEC** and **Institute of Physics ASCR**. The school is part of activities of the **Czech Nanoteam**. The school organization relies on the **Czech Physical Society** and **Czech Vacuum Society** and last, but not least, a group of academic research institutes and universities.

We are glad that the school was successful !

Antonín Fejfar (school co-chair)

Institute of Physics, Academy of Sciences of the Czech Republic, Cukrovarnická 10, 162 53 Prague 6, Czech Republic

Tomáš Šikola (school co-chair)

Institute of Physical Engineering, Faculty of Mechanical Engineering, Brno University of Technology, Technická 2, 616 69 Brno, Czech Republic

Yehiam Prior
[Weizmann Ins. Of Science](#)

Non Linear Optics



Invited speakers for 2020



Heike Riel,
IBM Zurich, Switzerland
<http://researcher.ibm.com/researcher/view.php?person=zurich-hei>



Nanoelectronics

Silke Christiansen,
[Max Planck Institut für die Physik des Lichts, Freie Universität Berlin](#)

Photonic nanostructures



Pietro Gambardella,
[ETH Zurich, Switzerland](#)



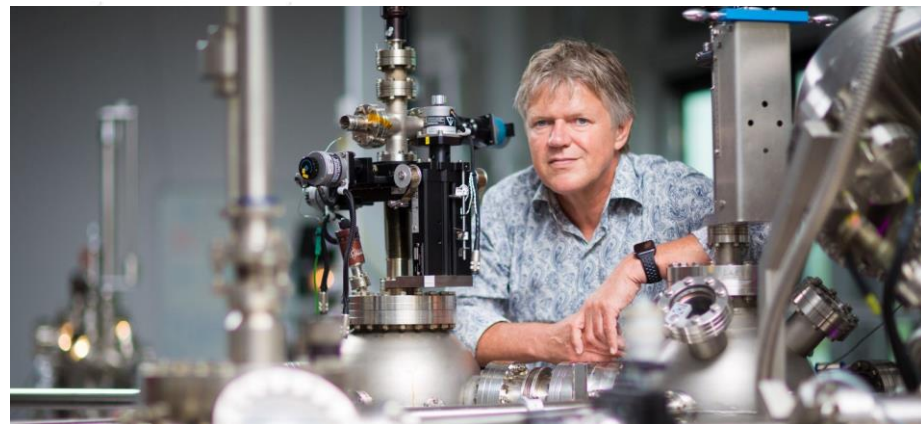
Nanomagnetism and spintronics

Speakers (cont.)



Karl Heinz Ernst
[EMPA](#)

Molecules on Surface



Guus Rijnders,
[Uni Twente](#)

Thin film depositions

Joachim Krenn,
[Institute of Physics, Karl Franzens University Graz, Austria](#)

Nano-Optics

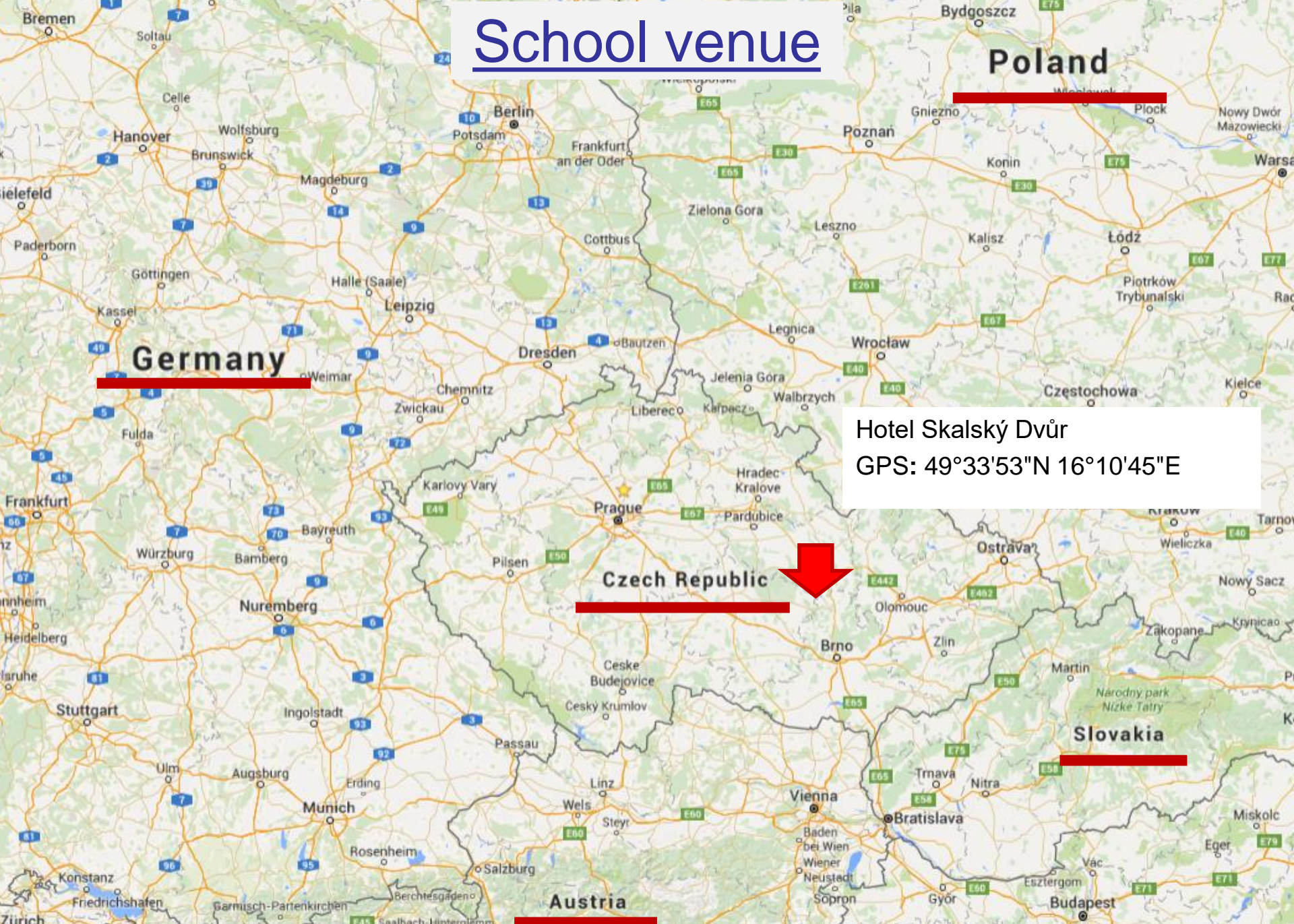


Marc Chaigneau · 1st

AFM-Raman Product Manager chez HORIBA Scientific

Tip enhanced spectroscopies

School venue



Hotel Skalský Dvůr

GPS: 49°33'53"N 16°10'45"E

TITLE: Physics at Nanoscale		Skalsky Dvur, Czech Republic		DATE: June 1 st - June 6 th , 2020
Income	Unit cost (EUR)	Quantity	Sub-Total (EUR)	Remarks
Registration Fee (per person)	340	90	30 600	90 registered participants
TVS funding (Czech Physical Society, projects)	9 200	1	9 200	estimated, under progress
sponsoring (by companies listed in the application)	600	9	5 400	estimate based on the past experience
IUVSTA funding	9 000	1	9 000	
Total (EUR)			54 200	
Expenditures	Unit cost (EUR)	Quantity	Sub-Total (EUR)	Remarks
Meals (5 days per person) **	110	105	11 550	Lunch breaks, Dinner breaks, and Coffee breaks
Excursion (per person) **	20	105	2 100	Transportation and Tickets
Welcome mixer and banquet (per person) **	40	105	4 200	
Meeting Rooms (per event)	900	2	1 800	
Hotel Rooms (4 nights per invited speaker)	600	15	9 000	
Participants accommodation	150	90	13 500	
Announcements and web page	850	1	850	
Temporary Labors (per person)	0	0	0	
Miscellaneous	0	0	0	
Airticket partial funding (Europe, per person)	400	10	4 000	Partial funding for 10 invited speakers on request
Airticket partial funding (Asia, US, per person)***	1 800	4	7 200	Partial funding for 4 invited speakers on request
Total (EUR)			54 200	

Hotel Skalský Dvůr



Relaxing Environment, for study, relaxation and teaming



Excursions

- Medieval castle
Pernštejn
- UNESCO World
Heritage Zelena hora



Participants

- Intended for Ph.D. students and young researchers
- Typical attendance: over 120 people (students, speakers, company people).



Corona virus

In spite of the current COVID-19 pandemics (and many scientific meetings already cancelled) we still plan to hold the school, with following contingency plan:

- the school may take place with attendance limited to local audience (CEITEC and Czech Academy of Sciences).
- distant lecturers present through teleconferencing
- Self study groups of the students

We verified the necessary conditions:

- Broad band internet connection
- Space for organizing the student groups

We believe we should think in advance and find ways how to function under the changed circumstances.

Thank you for your attention
and we hope for your support