

## **Application Form for the Organization of an IUVSTA School**

TITLE OF THE SCHOOL: Physics at Nanoscale

[part of [school series](#), with previous schools at 2017 (as 16th IUVSTA school), 2014, 2011 (10th), 2008 (9th), 2005 (6th)]

VENUE: Skalský Dvůr, Bystřice nad Pernštejnem, Czech Republic,  
<https://www.skalskydvur.cz/>

DATES: May 31<sup>st</sup> – 4<sup>th</sup> 2021 (1 week)

### **PRINCIPAL THEMES/TOPICS:**

Selected topics from the physics of nanostructures, including thin films, nanowires, 2D materials, nanoparticles, plasmonics, micromagnetism and spintronics, electrochemistry, and related topics. Special attention will be paid to applications of nanostructures for energy conversion and nanophotonics.

### **IUVSTA SPONSORING DIVISIONS:**

Nanometer Structures Division

**NAMES AND NATIONALITIES OF ORGANIZERS** (not more than 4, which must include at least one IUVSTA Divisional Committee member; please identify the Main Organiser and provide their full contact details):

Tomáš Šikola (cochair)

Brno University of Technology Faculty of Engineering & Central European Institute of Technology, Technická 2896/2, 616 69 Brno, Czech Republic, [sikola@fme.vutbr.cz](mailto:sikola@fme.vutbr.cz), tel. 602 158 095

Antonín Fejfar (cochair, Nanometer Structures Division, representative of the Czech Republic)

Institute of Physics of the Czech Academy of Sciences, Cukrovarnická 10/112, 162 00 Prague 6, Czech Republic, [fejfar@fzu.cz](mailto:fejfar@fzu.cz), tel. 721 315 348

Ana Cristina Gomes Silva (chair of Nanometer Structures Division)

Universidade Nova de Lisboa Portugal, email: [acs@fct.unl.pt](mailto:acs@fct.unl.pt)

## NAMES AND NATIONALITIES OF ANTICIPATED LECTURERS:

Joachim Krenn, Institute of Physics, Karl Franzens University Graz, Austria (Nano-Optics)

Milos Toth, University of Technology, Sydney, Australia (Ion physics, Plasma physics, Surface physics, popularization of science)

Yehiam Prior, Department of Chemical Physics, Weizmann Institute, Rehovot, Israel (Non linear Optics Interactions, Nanoplasmonics)

Marc Chaigneau, Horiba & Ecole Polytechnique, Palaiseau, Saclay, France (Tip enhanced spectroscopies)

Guus Rijnders, University of Twente, The Netherland (Thin films deposition)

Yang Hyunsoo, National University of Singapore (Magnetism)

Pietro Gambardella, ETH Zurich, Switzerland (Nanomagnetism and spintronics)

Karl Heinz Ernst, EMPA, Switzerland (Molecules on surfaces)

NAMES OF OTHER SPONSORS (actual and applied for; include indication of known or anticipated level of financial contribution: IUVESTA must be advertised as the main sponsor):

Contributions of the participating companies:

Horiba Ltd., Měřicí technika Morava s.r.o., TESCANA Orsay Holding, Vakuum Praha, Nenovision s.r.o., Pfeiffer Vacuum GmbH, Vakuumservis s.r.o., ON Semiconductor Rožnov p. R., HVM Plasma s.r.o.

The anticipated financial contribution per company amounts to 600 Euro based on previous experience.

UNDERWRITING: Who will underwrite any financial loss? (If approved, IUVESTA will make offer sponsorship to a predetermined maximum level and will not have any further financial responsibility)

Czech Physical Society, the Union of the Czech Mathematicians and Physicist

## CHECKLIST FOR APPLICANTS

Organizers **must** undertake to fulfil the conditions below. Financial contributions from IUVSTA are conditional upon this undertaking.

I AGREE to :

- PROVIDE full information of event to the IUVSTA Scientific Secretary
- PROVIDE a budget, updated in the event of major changes, to the IUVSTA Scientific Secretary
- PROVIDE a dedicated Website for the event. Give url when known (this information must be passed to the Scientific Secretary before any IUVSTA funds will be released):  
Name and e-mail address of person who will maintain the site: Antonín Fejfar, fejfar@fzu.cz
- PROVIDE a report of the event after its completion for the IUVSTA web site  
Name and e-mail address of person who will provide this report: Antonín Fejfar, fejfar@fzu.cz
- AGREE to include IUVSTA name and logo on all event announcements
- AGREE to use IUVSTA numbering system (e.g. IUVSTA School no NN) on all event announcements
- AGREE to give a short presentation on IUVSTA at the beginning of the event. (Suitable material may be downloaded from the IUVSTA web site <http://www.iuvsta.org>)
- AGREE to distribute any IUVSTA material provided to the organizers
- AGREE not to have a published Proceedings of the event
- AGREE to follow the School Guidelines described in the IUVSTA Procedure Manual (downloadable from the IUVSTA web site: <http://www.iuvsta.org>)

I agree to fulfil all the points of the above checklist

Name: Antonín Fejfar

Date and Signature:

In Prague, March 12th, 2021



Budget for the Workshop (2016.10.24-28)

Hybrid version

TITLE: Physics at Nanoscale

VENUE: Skalsky Dvur, Czech Republic

DATE: May 31<sup>st</sup> - June 6<sup>th</sup>, 2020

| Income  | Unit cost (EUR) | Quantity | Sub-Total (EUR) | Remarks                               |
|---|-----------------|----------|-----------------|---------------------------------------|
| Registration Fee (per person)                       | 160             | 60       | 9,600           | 60 registered participants            |
| TVS funding (Czech Physical Society, projects)      | 4,000           | 1        | 4,000           | estimated, under progress             |
| sponsoring (by companies listed in the application) | 500             | 6        | 3,000           | estimate based on the past experience |
| IUVSTA funding                                      | 4,000           | 1        | 4,000           | Funding supports for students         |
| Total (EUR)   |                 |          | 20,600          |                                       |

  

| Expenditures  | Unit cost (EUR) | Quantity | Sub-Total (EUR) | Remarks   |
|---|-----------------|----------|-----------------|---|
| Meals (5 days per person) **                            | 110             | 22       | 2,420           | Lunch breaks, Dinner breaks, and Coffee breaks              |
| Excursion (per person) **                               | 20              | 22       | 440             | Transportation and Tickets                                  |
| Welcome mixer and banquet (per person) **               | 40              | 22       | 880             |   |
| Meeting Rooms (per event)                               | 900             | 1        | 900             |   |
| Hotel Rooms (4 nights per invited speaker)              | 600             | 2        | 1,200           |   |
| Participants accommodation                              | 250             | 20       | 5,000           |   |
| Announcements and web page                              | 850             | 1        | 850             |   |
| Video conferencing equipment rental & technical support | 6,910           | 1        | 6,910           | rental of the equipment for coordinating the virtual school |
| Miscellaneous   | 0               | 0        | 0               |   |
| Airticket partial funding (Europe, per person)          | 400             | 5        | 2,000           | Partial funding for 10 invited speakers on request          |
| Total (EUR)   |                 |          | 20,600          |   |

\* Exchange rate EUR/USD ~ 1.14 ; any other relevant exchange rate

\*\* 20 participants on-site representing other students in preassigned groups plus estimated 2 speakers coming in person

\*\*\* we expect one invited speaker from Czechia

Budget for the Workshop (2016.10.24-28)

TITLE: Physics at Nanoscale

Online version

VENUE: Skalsky Dvur, Czech Republic

DATE: May 31<sup>st</sup> - June 6<sup>th</sup>, 2020

| Income  | Unit cost (EUR) | Quantity | Sub-Total (EUR) | Remarks                                      |
|---|-----------------|----------|-----------------|--|
| Registration Fee (per person)                       | 0               | 60       | 0               | 60 registered participants                   |
| TVS funding (Czech Physical Society, projects)      | 6,000           | 1        | 6,000           | estimated, under progress                    |
| sponsoring (by companies listed in the application) | 100             | 5        | 500             | estimate based on the preliminary agreements |
| IUVSTA funding                                      | 4,000           | 1        | 4,000           | Funding supports for school taking place     |
| Total (EUR)   |                 |          | 10,500          |  |

| Expenditures  | Unit cost (EUR) | Quantity | Sub-Total (EUR) | Remarks  |
|---|-----------------|----------|-----------------|--|
| Meals (5 days per person) **                            | 110             | 0        | 0               | Lunch breaks, Dinner breaks, and Coffee breaks       |
| Excursion (per person) **                               | 20              | 0        | 0               | Transportation and Tickets                           |
| Welcome mixer and banquet (per person) **               | 40              | 0        | 0               |  |
| Meeting Rooms (per event)                               | 900             | 0        | 0               |  |
| Hotel Rooms (4 nights per invited speaker)              | 600             | 0        | 0               |  |
| Participants accommodation                              | 250             | 0        | 0               |  |
| Announcements and web page                              | 500             | 1        | 500             |  |
| Video conferencing equipment rental & technical support | 8,000           | 1        | 8,000           | video conferencing for the virtual school            |
| Miscellaneous   | 100             | 20       | 2,000           | symbolic rewards to student representatives involved |
| Airticket partial funding (Europe, per person)          | 400             | 0        | 0               | Partial funding for 10 invited speakers on request   |
| Total (EUR)   |                 |          | 10,500          |  |

\* Exchange rate EUR/USD ~ 1.14 ; any other relevant exchange rate

\*\* 20 participants on-site representing other students in preassigned groups plus estimated 2 speakers coming in person

\*\*\* we expect one invited speaker from Czechia