

Application Form for the Organization of an IUVSTA Workshop

TITLE OF THE WORKSHOP: IUVSTA Workshop on reliable sensing and control of reactive plasmas

VENUE: Cerklje na Gorenjskem, Slovenia, EU

DATES (NB workshops should normally be 4-5 days in length): 7th – 12th March 2021

PRINCIPAL THEMES/TOPICS:

Society is facing the fourth industrial revolution, often referred to as Industry 4.0. Industry 4.0 refers to the concept of factories in which machines are augmented with wireless connectivity and sensors, and in a broader sense also to development of production processes that are compatible with the major concept. Current plasma technologies do not meet standards of Industry 4.0 because of the lack of reliable sensors for real-time monitoring of plasma parameters and surface end-point. Plasma scientists face a tremendous challenge: development of reliable and inexpensive sensors, which should be capable of integration into smart production lines.

The proposed workshop will gather leading scientists in plasma sensors to discuss recent achievements in sensing technology as well as drawbacks of currently used sensors. Innovative sensors will have to be developed within the next decade. The key requirement is reliability. The accuracy is not crucial as long as a broad range of treatment parameters is tolerable – often by choosing discharges capable of self-adjustment. The sensors response should be predictable and thus suitable for integration in digital twins. Distinguished scientists from world leading groups in this field are invited to attend the workshop.

Workshop structure: The workshop will last 5 days (Sunday – Friday). The scientific program will consist of oral presentations in the mornings and thorough discussion in the afternoons. Both invited speakers and regular attendees are invited to present posters. The poster session is scheduled in the evenings for optimal networking. The number of speakers is limited to about 20 in order to have ample time for discussions. IUVSTA contribution will be spent for subsidizing accommodation of participants.

IUVSTA SCIENTIFIC SPONSORING DIVISIONS:

Plasma Science and Techniques 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):

Main Organizer: Prof. Dr. Alenka Vesel, President of Slovenian Vacuum Society, Jozef Stefan Institute, Jamova cesta 39, 1000 Ljubljana, Slovenia. Phone +386 1 4773405, fax +386 1 4773440, mobile +386 41 331443, Email: alenka.vesel@ijs.si

- Prof. Dr. Satoshi Hamaguchi, IUVSTA chair of Plasma Science & Techniques Division, Osaka University, Japan. Phone: +81-6-6879-7913, fax: +81-6-6879-7916 Email: hamaguch@ppl.eng.osaka-u.ac.jp

- Dr. Ivana Capan, IUVSTA Chair of Electronic Materials and Processes Division, Croatian Vacuum Society, Institut Ruđer Bošković, Bijenička cesta 54, 10000 Zagreb, Croatia. Phone +385 1 461 312, fax + 385 1 468 114, mobile +385 91 5393649, Email:ivana.kovacevic@irb.hr

NAMES AND NATIONALITIES OF LIKELY INVITED SPEAKERS (in alphabetical order):

1. Jean-Paul Booth, Paris, France
2. Ivana Capan, Zagreb, Croatia
3. Hong Young Chang, Daejeon, Korea
4. Deborah O'Connell, York, UK
5. Uwe Czarnetzki, Bochum, Germany
6. Greg Daly, Oxford, UK
7. Sebastien Dine, Paris, France
8. Gheorghe Dinescu, Romania
9. Timo Gans, York, UK
10. David Graves or Ali Mesbah, Berkley, USA
11. Satoshi Hamaguchi, Osaka, Japan
12. Chin Oi Hoong, Kuala Lumpur, Malaysia,
13. Kersten Holger, Kiel, Germany
14. Masaru Hori, Nagoya, Japan
15. Paul Maguire, Belfast, UK
16. Rajdeep Singh Rawat, Singapore
17. Jürgen Röpke, Greifswald, Germany
18. Petr Špatenka, Prague, Czech Republic
19. Slobodan Milosevic, Zagreb, Croatia
20. Zoran Petrovic, Belgrade, Serbia
21. David Ruzic, Urbana, USA
22. Mahendra Sunkara, Louisville, USA
23. Sabu Thomas, Kottayam, India

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

None

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

Slovenian Vacuum Society

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 Dedicated Website for the event. Give url if 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:

Prof. Gregor Primc, gregor.primc@ijs.si

- 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:

Prof. Dr. Miran Mozetič, miran.mozetic@guest.arnes.si

- AGREE to include IUVSTA name and logo on all event announcements
- AGREE to use IUVSTA numbering system (e.g. IUVSTA Workshop 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 IUVSTA material provided to the organizers
- AGREE not to have a published Proceedings of the event
- AGREE to follow the Workshop 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:

President of Slovenian Vacuum Society

Prof. dr. Alenka Vesel



Date and Signature:

Ljubljana, 10th February 2020

TITLE: IUVSTA Workshop on reliable sensing and control of reactive plasmas

VENUE: Cerklje, Slovenia

DATE: 7th - 12th March 2021

Income	Unit cost (EUR)	Quantity	Sub-Total (EUR)	Remarks
Registration Fee (per person)	750	30	22,500	20 invited speakers + 10 poster presenters
Any other funding	0	0	0	none
IUVSTA funding	9,000	1	9,000	Funding supports for invited speakers
Total (EUR)			31,500	

Expenditures	Unit cost (EUR)	Quantity	Sub-Total (EUR)	Remarks
Meals (5 days per person)	290	30	8,700	Lunch 20€, Dinner 28€, and Coffee breaks 10€
Excursion (per person)	50	30	1,500	Transportation and Tickets
Banquet (per person)	50	30	1,500	
Meeting Rooms (per day)	500	5	2,500	
Hotel Rooms (5 nights per invited speaker)	640	20	12,800	partially covered by IUVSTA grant
Advertisement	0	0	0	webpage
Temporary Labors (per person)	0	0	0	Volunteerseess
Miscellaneous	3,120	1	3,120	Web page, abstract booklet, badges, unexpected extra costs
Airport-hotel transfers, return	46	30	1,380	shared taxi + cable-car
Airticket partial funding (Asia Pacific, per person)	0	0	0	none
Total (EUR)			31,500	

Alenka Vesel