

# Application Form for the Organisation of an ITTC

NATIONAL VACUUM SOCIETY: Društvo za vakuumsko tehniko Slovenije (Slovenian Vacuum Society)

COURSE TITLE: Fundamentals of Vacuum Technique and Technologies

LOCATION: Ljubljana, Slovenia

DATE OF COURSE: 25<sup>th</sup> and 26<sup>th</sup> May 2022

STAND-ALONE COURSE OR PART OF A CONFERENCE or WORKSHOP: Stand alone

OBJECT OF THE COURSE: Learn the fundamentals of vacuum science and technique, surfaces and interfaces, surface and applied surface science, surface engineering and plasma technologies

LANGUAGE: Slovenian

COURSE OUTLINE ATTACHED: yes

EXPECTED EDUCATIONAL AND JOB LEVEL OF STUDENTS: PhD students, engineers and technicians

EXPECTED AVERAGE NUMBER OF STUDENTS PER COURSE: 30

FINANCES:

Cost per course in Euros, CHF, or US\$; 10,000 €

Sources and total amount of support; Donations from participants' employers, IUVSTA support

IUVSTA contribution requested and how will it be used. 2000€, will be spent for subsidizing the cost of meals and coffee breaks for teachers and attendants

PROVISIONAL BUDGET ATTACHED: Yes

REPORT

The Society (the recipient of the grant) is required (within 1 month after ITTC completion) to send a Report to the IUVSTA Scientific Secretary which should include the following information:

Title, location, and date of the TTC

Intent of the course, language of the course


List of teachers and attendants (with affiliations)

Names of beneficiaries of the IUVESTA support, with spending specifications

I agree to fulfil all the points of the above

Name: prof. Alenka Vesel, PhD

Position: President, Slovenian Vacuum Society

Date and Signature: Ljubljana, 10<sup>th</sup> March 2022 

## COURSE OUTLINE:

### 1<sup>st</sup> day

Time	Title	Speaker
8:15 – 8:30	Welcome and opening	Alenka Vesel
8:35 – 9:20	Physical basics of vacuum science	Matjaž Panjan
9:25 – 10:10	Vacuum technologies	Peter Panjan
10:15 – 10:30	Coffee break	
10:35 – 11:20	Vacuum systems	Janez Kovač
11:25 – 12:10	Low and medium vacuum pumps	Andrej Pregelj
12:15 – 13:45	Lunch	
13:45 – 14:30	High and ultrahigh vacuum pumps	Miran Mozetič
14:35 – 15:30	Total and partial pressure measurements	Janez Šetina
15:35 – 16:35	Leak detection methods	Miro Pečar
16:35 – 17:00	Coffee break	
17:00 – 17:45	Visit of accredited Laboratory of Pressure Metrology	Janez Šetina
18:00 – 22:00	Moderated discussions and dinner	Rok Zaplotnik

## 2<sup>nd</sup> day

Time	Title	Speaker
8:15 – 9:00	Vacuum materials and their preparation	Vinko Nemanič
9:05 – 9:50	Vacuum joints and components	Miro Pečar
9:50 – 10:05	Coffee break	
10:05 – 10:50	Nonequilibrium state of gas and plasma	Miran Mozetič
10:55 – 11:55	Thin film deposition	Miha Čekada
12:00 – 12:30	Visit of Laboratory for thin film deposition	Miha Čekada
12:30 – 13:45	Lunch	
13:45 – 14:45	Demonstration of vacuum experiments	Jernej Žižek
14:50 – 15:35	Methods for surface characterization	Janez Kovač
15:40 – 16:10	Presentation of vacuum equipment	Jernej Žižek
16:15 – 17:00	Visit of Laboratory for characterization of surfaces and thin films & Visit of Plasma laboratories	Kovač, Zaplotnik, Primc
17:00 – 17:40	Certificate ceremony	Alenka Vesel
18:00 – 22:00	Social program with dinner	Alenka Vesel

Provisional budget: Expenses

	Per pax	number	total
Coffee break1	5€	40	200€
Coffee break2	5€	40	200€
Coffee break3	5€	40	200€
Lunch 1	30€	40	1200€
Lunch 2	30€	40	1200€
Dinner1	50€	40	2000€
Dinner2	60€	40	2400€
Organization			2600€
Total Expenses			10000€

Provisional budget: Income

IUVSTA	2000€
Donation from participating employers	8000€
Total Income	10000€

President of the Slovenian Vacuum Society

Prof. dr. Alenka Vesel

