

Scientific and Technical Directorate(STD)

Jay Hendricks, Scientific Director
Katsuyuki Fukutani, Scientific Secretary



ECM-135

Hybrid/Virtual Meeting

November 19th , 2021



Scientific Director's Forward View

The Scientific and Technical Directorate (STD) coordinates the Scientific and Technical activities of the Nine IUVSTA Divisions

- **Communication:** “Serve as an international communication ‘hub’ that connects vacuum science and technology scientists around the world”.
- **Education:** Work with Division Chairs to develop *Workshops, Schools, Short Courses, and Technical Training*
- **IVC Scientific:** Work with IUVSTA Division Chairs to Develop IVC-22 Program and abstract calls through the international program committee.
- **Society Impact:** Find Applications where our science has positive impact for society.
 - Support for science in less developed countries .
- **Develop Focus Topics:**
 - Technologies for Sustainability (clean water, air,
 - Quantum Science (AVS Quantum Science journal, Quantum Based Units, Quantum Computing/deep learning).
 - Photonics and Nano photonics (multiple technologies, including bio applications)
 - Role of Sensors and Sensor Science (AI, Self-driving cars)
 - Next Gen. Energy (Fusion, Solar, new materials and process enabling technologies, batteries)
 - **FIGURE OUT HOW TO FUNCTION IN A PANDEMIC!!!**

2019-2022 IUVSTA Scientific and Technical Division Officers

<u>IUVSTA Division</u>	<u>Chair</u>	<u>Vice Chair</u>	<u>Secretary</u>
ASSD - Applied Surface Science	Leszek Markowski	John T. Grant	--
BID - Biointerfaces Division	Dmitri Petrovykh	Miguel Manso	Carlos R. Grandini
EMPD - Electronics Materials & Proc.	Ivana Capan	Monika Kwoka	Reinhard Schwarz
NSD - Nanometer Structures	Ana Gomes Silva	Shuji Hasegawa	Carla Bittencourt
PSTD - Plasma Science & Tech.	Satoshi Hamaguchi	Miran Mozetič	Deborah O'Connell
SED - Surface Engineering	Ivan G. Petrov	Peter Schaaf	Monika Jenko
SSD - Surface Science	María Carmen ASENSIO	Mario Rocca	Fumio Komori
TFD - Thin Film	Mile Ivanda	Papken Hovsepian	Diederik Depla
VSTD - Vac. Science & Tech.	Marcelo J. Ferreira	Martin Wüest	Joe Herbert
EC - Education Committee	Alberto Tagliaferro	Ana Silva	Sylve Bourgeois

The changing landscape of scientific meetings

- In-Person Meetings
 - PRO: Fantastic opportunity, “real-world experience-based” learning
 - CON: Expensive
- Virtual Meetings
 - PRO: Unlimited reach, low-cost
 - Lack the “real-world” learning experience and networking
- Hybrid Events
 - PRO: Best of both worlds
 - CON: Twice the work for organizer



AGENDA STD ECM-135

1. Opening and Welcome (10 min)

- Scientific Director's Report (Jay Hendricks)
- Attendance (Katsuyuki Fukutani)
- Adoption of Agenda (all)
- Approval Minutes of previous ECM134 (link below)

https://iuvsta.org/iuvsta2/assets/docs/meantime/ECM_135/STD_minutes_ECM134_20210322.pdf

2. Divisional reports (30 min)

- | | |
|--|----------------------------|
| • ASSD-Applied Surface Science Division | Leszek Markowski |
| • BI-Biointerfaces Division | Dmitri Petrovykh |
| • EMPD-Electronic Materials & Processes Division | Ivana Capan |
| • NSD-Nanometer Structures Division | Ana Gomes Silva |
| • PSTD-Plasma Science & Techniques Division | Satoshi Hamaguchi |
| • SED-Surface Engineering Division | Ivan G. Petrov |
| • SSD-Surface Science Division | María Carmen ASENSIO |
| • TFD-Thin Film Division | Mile Ivanda |
| • VSTD-Vacuum Science and Technology Division | Marcelo J. Ferreira |

Dr. Jay H. Hendricks, Scientific Director IUVSTA

2. Division Reports (30 min)

Division/ Reports		Chair	Presenting	Vice Chair	Secretary
ASSD	(2-3 min)	Leszek Markowski	Leszek	John T. Grant	--
BI	(2-3 min)	Dmitri Petrovykh	Dmitri	Miguel Manso	Carlos R. Grandini
EMPD	(2-3 min)	Ivana Capan	Ivana	Monika Kwoka	Reinhard Schwarz
NSD	(2-3 min)	Ana Gomes Silva	Ana	Shuji Hasegawa	Carla Bittencourt
PSTD	(2-3 min)	Satoshi Hamaguchi	Miran	Miran Mozetič	Deborah O'Connell
SED	(2-3 min)	Ivan G. Petrov	Ivan	Peter Schaaf	Monika Jenko
SSD	(2-3 min)	María Carmen ASENSIO	Fumio	Mario Rocca	Fumio Komori
TFD	(2-3 min)	Mile Ivanda	Mile not present	Papken Hovsepian	Diederik Depla
VSTD	(2-3 min)	Marcelo J. Ferreira	Marcelo	Martin Wüest	Joe Herbert
Education		Alberto Tagliaferro	Alberto @ 16:30 in the EC	Ana Silva	Sylvie Bourgeois

INSERT DIVISION REPORT HERE OR HAVE Katsuyuki project
[\(local file\)](#)

3. Presentation on Past WS/SCH/TTC/SC (5 min each, 15 min total)

Proposal filename	Place/ Country	Date	Organizer (underwriter)	IUVSTA Committee	Presenter	Title	Requested Funding (€)
24 th IUVSTA TTC	Virtual (Quezon City, Philippines)	April 15-16, 2021	Vacuum Society of the Philippines (VSP)	EC	Kathrina Lois Taaca	“Plasma and Society”	1545 (ECM 133)
18 th IUVSTA School	“Hybrid” Czech	May 31 – 4, 2021	Czech Physical Society	STD	Antonín Fejfar	“Physics at Nanoscale”	4000 (ECM 134)
IUVSTA SC “Gas Flows”	“Hybrid” Marseille France	November 22-25, 2021 included in EVC 16	French Vacuum Society(SFV)	EC	Sylvie Bourgeois/ Anouk	“Gas flows under vacuum conditions: from theory to applications”	2000 (ECM 133)

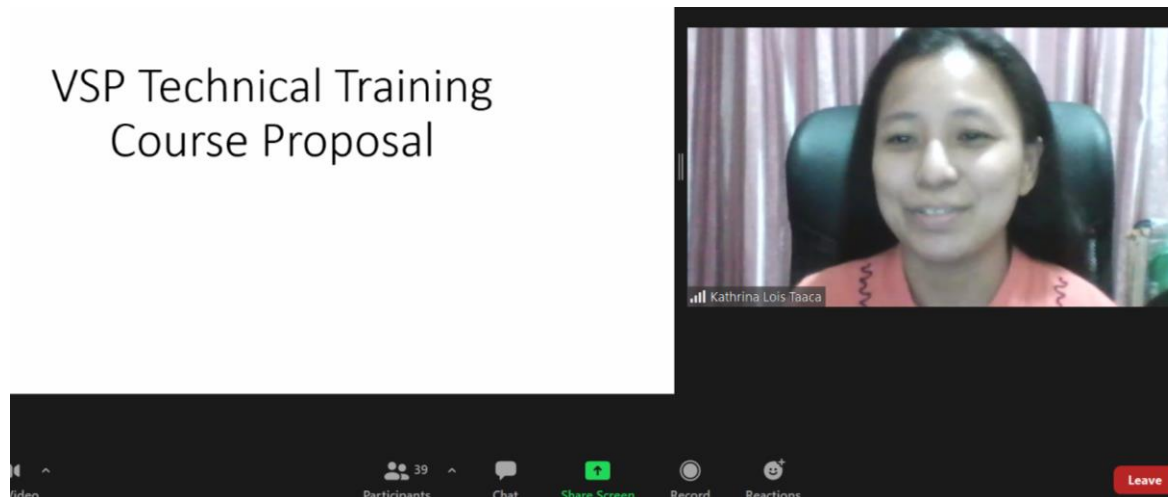
ECM 133: 24th IUVSTA Virtual Technical Training Course

(2) TTC_1 Voted: 8 votes yes, 0 vote no, and 4 votes abstention

According to the results voted in the STD, the STD proposes a **virtual Technical Training Course** with title **”Plasma and Society”** to the ECM 133 for final approval as the **24th IUVSTA Technical training course** **with** IUVSTA financial support of **up to 1930 EUR** as long as the scientific director is satisfied with the requested modifications.

Dear Madam President

the STD proposes a **virtual Technical Training Course** with title **“Plasma and Society”** to the ECM 133 for final approval as the **24th IUVSTA Technical Training Course** with IUVSTA financial support of **up to 1930 EUR** as long as the scientific director is satisfied with the requested modifications.



PLASMA AND SOCIETY

INTRODUCTION TO PLASMA IN THE PHILIPPINES

Plasma Technology In the Philippines
The Establishment of the Plasma-Material Interactions Laboratory
History and Research of the Vacuum Coating Laboratory

INDUSTRIAL APPLICATIONS OF PLASMA (PART 1)

PECVD for Material Fabrication
COATiN: When Laboratory Meets Industry

INDUSTRIAL APPLICATIONS OF PLASMA (PART 2)

Roll-to-Roll Sputter Process
Industrial Applications of Plasma Science

ROLES OF PLASMA IN BIOMEDICAL APPLICATIONS

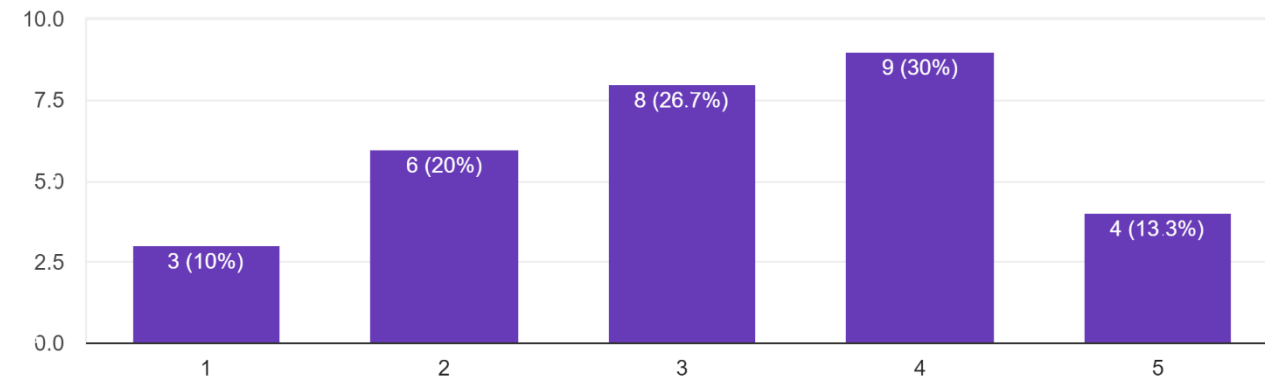
Surface Modification of Biomaterials
Plasma Science and Technology in Baguio
Plasma-Activated Solutions for Cancer Therapy

Scan here
to register

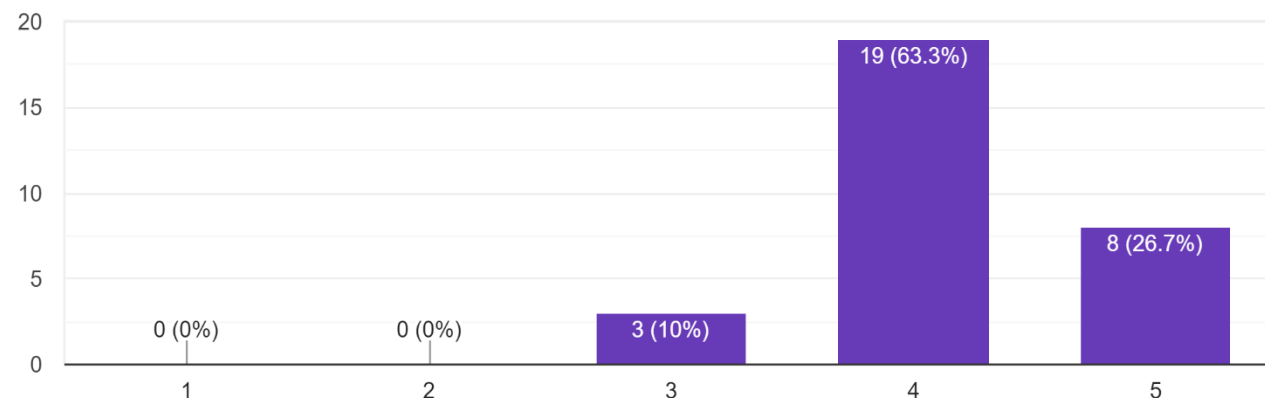


15 & 16 APRIL 2021

Before attending the Technical Training Course, how well do you know about plasma technology?
30 responses



After attending the Technical Training Course, how well do you know about plasma technology?
30 responses



ISVSP 2022

**REFOCUSING VACUUM AND PLASMA TECHNOLOGY
TO THE CURRENT NEEDS OF THE SOCIETY**

SAVE THE DATE

FEBRUARY 3-5, 2022

3. Presentation on Past WS/SCH/TTC/SC (5 min each, 15 min total)

Proposal filename	Place/ Country	Date	Organizer (underwriter)	IUVSTA Committee	Presenter	Title	Requested Funding (€)
24 th IUVSTA TTC	Virtual (Quezon City, Philippines)	April 15-16, 2021	Vacuum Society of the Philippines (VSP)	EC	Kathrina Lois Taaca	"Plasma and Society"	1545 (ECM 133)
18 th IUVSTA School	"Hybrid" Czech	May 31 – 4, 2021	Czech Physical Society	STD	Antonín Fejfar	"Physics at Nanoscale"	4000 (ECM 134)
IUVSTA SC "Gas Flows"	"Hybrid" Marseille France	November 22-25, 2021 included in EVC 16	French Vacuum Society(SFV)	EC	Sylvie Bourgeois/ Anouk	"Gas flows under vacuum conditions: from theory to applications"	2000 (ECM 133)

18th UVSTA Virtual School on Physics at Nanoscale

ECM134

(1) Sc_1 Voted: 9 votes yes, 0 vote no, and 0 vote abstention

According to the results voted in the STD, the STD proposes an either hybrid or virtual School with title “Physics at Nanoscale” to the ECM 134 for final approval as the IUVESTA School with IUVESTA financial support of 4000 EUR.

**Dear Madam President,
the STD proposes an either hybrid or virtual School with title “Physics at Nanoscale” to the ECM 134 for final approval as the IUVESTA Sch with IUVESTA financial support of 4000 EUR.**

The screenshot shows a Zoom meeting interface. At the top, there's a status bar indicating 'You are viewing Antonin Fejfar's screen' and a 'View Options' dropdown. Below this, a row of four video thumbnails shows participants: Jay Hendricks, Anouk GALTAYRI..., Dr. Javaid Bhatti (...), and Antonin Fejfar. The main content area displays a presentation slide titled 'IUVESTA International Summer School on Physics at Nanoscale'. The slide includes the URL 'http://iss.fzu.cz/', a 1 nm scale image, and text stating 'School web is up:'. It also lists the school's aims, organizers (Antonin Fejfar and Tomáš Škoda), and sponsors (Institute of Physical Engineering FME BUT, CEITEC, Institute of Physics ASCR, Czech Physical Society, and Czech Vacuum Society). The bottom of the slide mentions '18.3.2021 Paris ECM' and 'Intl. Summer School, Czechia'. The Zoom interface at the bottom shows a toolbar with icons for Mute, Stop Video, Participants (38), Chat, Share Screen, Record, and a search bar. A large '6 IUVESTA' logo is visible in the bottom right corner.

18th International Summer School on Physics at Nanoscale, Czech Republic

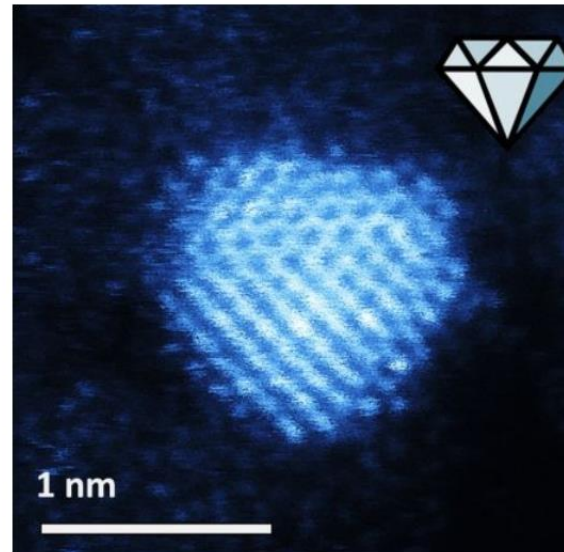


[Main](#)
[About](#)
[Programme](#)
[Speakers](#)
[Student hubs](#)
[Contacts](#)
[Organizers](#)
[Sponsors](#)



The school will take place **online**.

For registration, please go to **student hubs**



Organizers

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

IUVSTA
Edwards
HVM Plasma
MT-M.eu
NenoVision
Optik Instruments
Pfeiffer Vacuum Austria
Specion
Tescan Orsay Holding
Thermo Fisher Scientific (FEI)
Uni-Export Instruments
Vakuum Praha



CAS Follow @CAS_Physics



EUROPEAN UNION
European Structural and Investment Funds
Operational Programme Research,
Development and Education



Strategy AV21
Top research in the public interest

19.11.2021

Intl. Summer School, Czechia

About the school

Part of the series of schools held every 3 years as IUVSTA school
Intended for Ph.D. students and young researchers
because of COVID it has taken place in hybrid mode:

with student hubs in

Prague (Institute of Physics, Czech Academy of Sciences)

Brno (Brno University of Technology)

Brno (Ceitec Nano)

Vienna (TU Wien)

Zurich (ETH)

Lausanne (EPFL)

Grenoble (ILL)

Plus participants online from the Netherlands, Iran,

Poster session: organized using gather.town.

over 100 people (students & speakers).






Oliver Benson
 Quantum photonic hybrid systems
[Institut für Nanoptik AG, Humboldt-Universität zu Berlin, Germany](https://www.humboldt-universitaet-berlin.de/en/faculties/faculty-of-physics/institutes/institut-fuer-nanophotonik/)



Burkard Hillebrands
 Spin dynamics/spin waves
[Department of Physics and Research Center OPTIMAS, TU Kaiserslautern, Germany](https://www.physik.uni-kaiserslautern.de/)

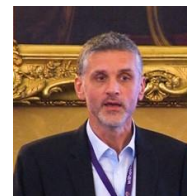
Timetable of the 16th IUISTA summer school

Physics at Nanoscale			
Monday 7.6.	Tuesday 8.6.	Wednesday 9.6.	Thursday 10.6.
		9:00-10:30 Benson: Q nanophotonics	9:00-10:30 Hillebrands: Spin waves
		10:30-13:00 posters	10:30-12:00 Gambardella: Surfaces
			lunch
			joint excursion: Physics at Large
	15:30 kickoff		
	16:00-17:30 Heuken: MOCVD	16:00-17:30 Krenn: Nano-optics/Plasmonics	
	17:30-19:00 Rijnders: Smart materials	17:30-19:00 Lips: Spin probes	
	student mixer	Panel discussion	School wrap up
	Physics At Dance	Physics at Home	

Michael Heuken
 MOCVD structures for optoelectronics
[RWTH Aachen University & Aixtron GmbH, Germany](https://www.aixtron.com/)



Pietro Gambardella
 Magnetic interfaces and spintronics
[Department of Materials, ETH Zürich, Switzerland](https://www.mater.ethz.ch/)



Joachim Krenn
 Nano-optics/Plasmonics
[Karl Franzens University Graz, Austria](https://www.kfz.graz.ac.at/)



Guus Rijnders
 Smart materials for electronic and microelectronic systems
[University of Twente, The Netherlands](https://www.utwente.nl/en/)



Klaus Lips
 Spins as probes
[EMIL, Helmholtz Zentrum Berlin, Germany](https://www.emil-berlin.de/)

Student hubs



FZU Prague
Institute of Physics, Czech Academy of Sciences
[Cukrovarnicka 10, Prague 6, Czech Republic](#)
Prague hub is organized by Matěj Hývl et al.

EPFL
Swiss Federal Institute of Technology Lausanne (EPFL)
[EPFL, CH-1015 Lausanne](#)
Lausanne hub is organized by Tereza Schönfeldová, David Roesel et al.

BUT Brno
Brno University of Technology
[Institute of Physical Engineering, Brno University of Technology, Technická 6, Brno, Czech Republic](#)
Brno BUT hub is organized by Petr Liška et al.

CEITEC Brno
Central European Institute of Technology, Brno University of Technology
[CEITEC Brno University of Technology, Purkyňova 656/123 612 00 Brno, Czech Republic](#)
CEITEC hub is organized by Katarina Rovenská et al.

TU Vienna
Institute of Applied Physics at the Vienna University of Technology
[Institut für Angewandte Physik, Technische Universität Wien, Wiedner Hauptstr. 8-10/134, 1040 Wien, Austria](#)
Vienna hub is organized by Jan Balajka et al.

ETH Zürich
Dpt. of Materials, ETH Zürich
[Hönggerbergstr. 64, 8093 Zürich, Switzerland](#)
Zürich hub is organized by Štěpán Kovařík & Viola Křížáková et al.
Registration for this hub has been closed.

Grenoble
Institut Néel, Grenoble, France
[Institut Néel CNRS/UGA UPR2940, Grenoble, France](#)
Grenoble hub is organized by Laurent Ranno, Ivan Mohelský et al.
Registration for this hub has been closed.

Global hub (online)

3. Presentation on Past WS/SCH/TTC/SC (5 min each, 15 min total)

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ECM 133: Satellite Short Course to EVC16

IUVSTA Short Course “Gas flows under vacuum conditions: from theory to applications”

(3) SC_1 Voted: 11 votes yes, 0 vote no, and 1 vote abstention

According to the results voted in the STD, the STD proposes a **Short Course** with title “**Gas flows under vacuum conditions: from theory to applications**”, to be held in Marseille, France to the ECM 133 for final approval as an IUVSTA **Short Course** with IUVSTA financial support of **2000 EUR**.

Dear Madam President

the STD propose a **Short Course** with title “**Gas flows under vacuum conditions: from theory to applications**”, to be held in Marseille, France to the ECM 133 for final approval as an IUVSTA **Short course** with IUVSTA financial support of **2000 EUR**.



IUVSTA SHORT COURSE on Gas flows under vacuum conditions: from theory to applications

Marseille (France), 22-23 November 2021

In link with EVC16

Hybrid form

11 participants

2 **virtual**: China and Thailand

9 **present** in Marseille

1 Czech Republic

3 France

1 UK

2 Germany,

1 Poland

1 Switzerland

Lecturers

Prof. Felix Sharipov (Brazil)

Dr. Oleg B. Malyshev (UK)

Prof. Irina Graur (France)

Dr. Roberto Kersevan (Switzerland)



Vacuum Science and
Technology Division (VSTD)

virtual

present

present

present

4. Status of existing WS as of 11-19-2021

title	Place/ Country	Status/Date	Organizer (underwriter)	IUVSTA Division	Primary Contact	Title	Requested Funding (€)
WS 90	Spain	Now planned for first semester of 2022. hybrid event		SSD	Juan.F.Sanchez@uv.es	"Tuning properties of advanced energy materials using modern theoretical and experimental methods"	6000
WS 91		Will have 2 parts: 1. Local in-person Feb. 27-28, 2022 2. Virtual March 1-3, 2022		NSD	baran.eren@weizmann.ac.il	"Surface Chemistry of Catalytic Systems"	6000
WS 92	Okinawa Japan	Satellite of IVC22 Sept. 19-22, 2022	Japan Society of Vacuum and Surface Science	NSD, SSD	shuji@surface.phys.s.u-tokyo.ac.jp	"Workshop on Advanced Spectroscopy and Transport for 2D Materials at Surfaces"	6000
WS 93	Castle Seggau, Austria	"Fall" 2022	Austrian Vac. Soc.	SE NSD, TFD, ASSD	petrov@illinois.edu	"Advances in the characterization of surface engineering structures, coatings, and thin films"	6000
WS 94	Cerklje na Gorenjskem Slovenia	"Summer 2022"	Slovenian Vacuum Society	PSTD	Miran Mozetič	"Reliable sensing and control of reactive plasmas"	9000
WS 95	Guimarães Portugal	June 20-23, 2022	University of Minho	TFD	Joel Borges	"Plasmonic Thin Films: Theory, Synthesis and Applications"	6000

4. Status of existing Proposals TTC/SC as of 11-19-2021

Title	Place/ Country	Status/Date	Organizer (underwriter)	IUVSTA Committee	Primary Contact	Title	Requested Funding (€)
TTC 21	Štrbské Pleso, Hotel Trigan	"Spring 2022" May combine with JVC if in SK	Slovak Vacuum Society	(EC)	Andy Vincze	"Vacuum technology, principles and applications"	2500
TTC 22	Islamabad Hotel, Islamabad, Pakistan	In-Person Dec. 7-9, 2021. Islamabad Hotel Website www.pvs.com.pk	Pakistan Vacuum Society	(EC)	Javaid Ahsan Bhatti	"IUVSTA TTC on Vacuum Technology Applications"	2500
TTC 23	Universidad Nacional de San Martin, Argentina	Cancelled	Asociación Física Argentina	(EC)	Miguel Sanchez	"Intro to Vac Sci, Tech, and Application: from Nano sci to outer space"	2500
SC Low Energy Microscopy	Córdoba, Spain	In person Sep. 26, 2022 https://leempeem12.secv.es/	Vacuum Society- Spain	(EC)	miguel.manso @uam.es	"Low Energy and PhotoEmission Electron Microscopy"	1000

5. Use of MailChimp for communications (Dmitri Petrovykh, 5 min)

<http://eepurl.com/hwcAUb>

6. Other business ...such as planning next EVC, EVC17 in 2024!

Also, Next ICTF by TFD in 2023?

7. Adjourn

Thanks!

Jay Hendricks, Scientific Director, November 19th, 2021

Jay Hendricks

Scientific Director, 2019-2022

IUVSTA



National Institute of Standards and
Technology
100 Bureau Drive
Gaithersburg, MD 20899



	WS Workshops	SCH Schools	TCC Technical Training Course	SC Short Course (may adapted to webinar)
Submission:	TO: Scientific Secretary CC: SD + organizers	TO: Scientific Secretary CC: SD + organizers	TO: Scientific Secretary CC: ECC/ECVC/ECS/SD + organizers	TO: Scientific Secretary CC: ECC/ECVC/ECS/SD + organizers
Summary/ Purpose:	To advance scientific knowledge in a field; rather than be educational of existing knowledge	To educate on existing knowledge	To educate at the beginner level , generally not same topic in sequential years	To educate on existing knowledge “state of the art “in a specific field
Organized by/Underwriter	Organized IUVESTA Division(s)/National Vacuum Society or university	Organized IUVESTA Division(s)/National Vacuum Society or university	Organized IUVESTA Division(s)/National Vacuum Society or university	Organized IUVESTA Division(s)/National Vacuum Society or university
Format:	Format should be like that of a “ Gordon Conference ” with no publication of proceedings.	Format is a school with Intense instruction on a specific topic with learning/educational materials provided.	Format Example: Practical vacuum science for the regional technician /engineer	Held in conjunction with existing scientific meeting. Example AVS Short Courses
Location:	Remote location (not large city) in a hotel, hostel, university campus, or small town.	Typically, University campus	Regional	Regional to Main scientific meeting
Size/Duration	40-50 delegates 4-6 days	40-80 students 1 to 2 weeks	Any 1-3 days	any 1-2 days
Participation:	Organizers invite 10-20 talks of International experts	International teaching experts in the field	Regional experts and students	Regional experts and students
Program:	Dominated by single session oral presentations by invited speakers. Lots of unstructured discussion space in program and time for questions (opposite of a conference style with little time for questions).	Intense instruction/school on a specific topic with learning/ educational materials provided often in the form of textbook	Dominated by regional experts in the field and often taught in the local language.	1-2 days held in conjunction with a main scientific meeting.
Funding:	6,000-9,000 Euro	6,000-9,000 Euro	2,500 Euro maximum	2,000 Euro maximum
Language:	Typically, English (French/German permitted)	Typically, English (French/German permitted)	Local/regional language is encouraged	English (French/German permitted), maybe regional if main conference is regional language (unusual).
Approval Route	STD→ECM	STD→ECM	EC→STD→ECM	EC→STD→ECM

**Screenshots From ECM135 Day 1:
NOV 19th, 2021**



View

A grid of 20 video thumbnails showing participants in a Zoom meeting. The thumbnails are arranged in 4 rows and 5 columns. Each thumbnail has a name label at the bottom. The names are: Anouk GALTAYRIES, Jay Hendricks, Deborah O'Connell, Anton Stampfl, Dmitri Petrovykh - INL, mmozetic, Francois Reniers, Katsuyuki Fukutani, Dr. Javaid Bhatti (PAKISTAN), Pedro Nascente, Maja Mićetić, Arnaud Delcorte, Marcelo Ferreira, Par Omling, Christoph Eisenmenger, Timo Gans, Dietrich RT Zahn, Mario Rocca, Fumio Komori, and Yasunori Tanimoto (KEK).



Ivan Petrov

Carla Bittencou...

Carla Bittencourt, Univers...

Mute Stop Video

Participants 22

Chat

Share Screen

Record

Reactions

Apps

Leave

Invite

Mute Me

Participants (22)

- | | | | |
|--|--------------------------------------|--|--|
| | Jay Hendricks (Me) | | |
| | Anouk GALTAYRIES (Host) | | |
| | Par Omling | | |
| | Pedro Nascente | | |
| | Dietrich RT Zahn | | |
| | Dr. Javaid Bhatti (PAKISTAN) | | |
| | Anton Stampfl | | |
| | Arnaud Delcorte | | |
| | Carla Bittencourt, University of ... | | |
| | Christoph Eisenmenger | | |
| | Deborah O'Connell | | |
| | Dmitri Petrovykh - INL | | |
| | Francois Reniers | | |

Participants (22)

Find a participant

- | | | | |
|--|--------------------------------------|--|--|
| | Jay Hendricks (Me) | | |
| | Anouk GALTAYRIES (Host) | | |
| | Mario Rocca | | |
| | Yasunori Tanimoto (KEK) | | |
| | Dr. Javaid Bhatti (PAKISTAN) | | |
| | Ivan Petrov | | |
| | Anton Stampfl | | |
| | Arnaud Delcorte | | |
| | Carla Bittencourt, University of ... | | |
| | Christoph Eisenmenger | | |
| | Deborah O'Connell | | |
| | Dietrich RT Zahn | | |
| | Dmitri Petrovykh - INL | | |

Invite

Mute Me



Participants (22)

Find a participant

Jay Hendricks (Me)

AG

Anouk GALTAYRIES (Host)

CB

Carla Bittencourt, University of ...

DJ

Dr. Javaid Bhatti (PAKISTAN)

MR

Mario Rocca

Anton Stampfl

AD

Arnaud Delcorte

CE

Christoph Eisenmenger

DO

Deborah O'Connell

DR

Dietrich RT Zahn

DP

Dmitri Petrovykh - INL

FR

Francois Reniers

FK

Fumio Komori


Invite


Mute Me

Summary

- Calendar
- ICN+T 2021
- VASSCAA-10 (Shanghai)
- VASSCAA-11 held jointly with IVC-22 (Sapporo)
- EVC-16
- ECOSS-35
- IVC-22
- IVC-23 Update and VVC-21 summary
- IVC-24 bids and evaluation schedule

Anouk GALTAY...
Anouk GALTAYRIES


Jay Hendricks



Anton Stampfl


Christoph Eisen...
Christoph Eisenmenger


mmozetic
mmozetic


Participants (23)


Find a participant


 Jay Hendricks (Me)


 Anouk GALTAYRIES (Host)


 Anton Stampfl


 Dr. Javaid Bhatti (PAKISTAN)


 Ana Silva


 Arnaud Delcorte


 Carla Bittencourt, University of ...


 Christoph Eisenmenger

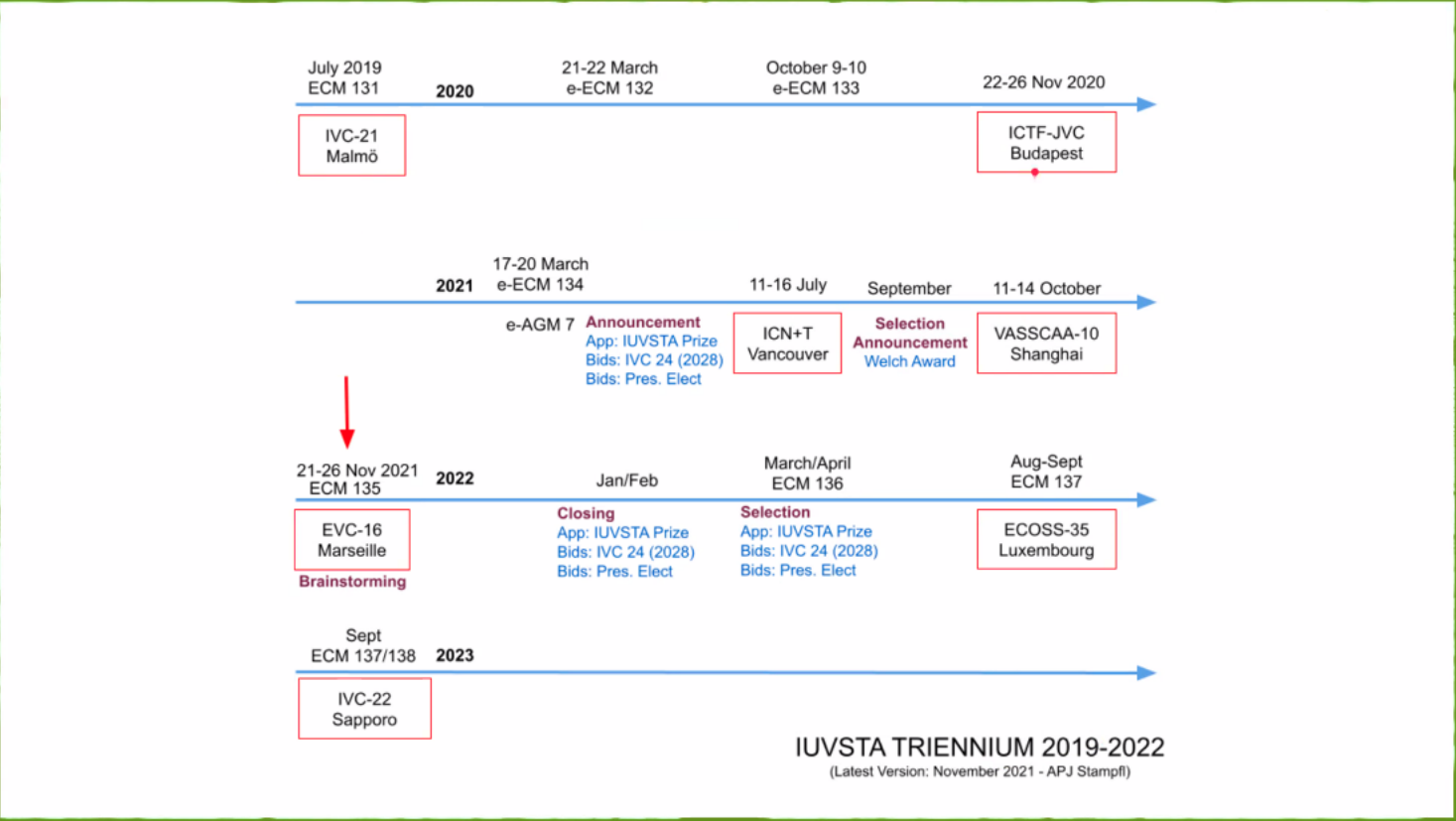
 Deborah O'Connell

 Dietrich RT Zahn

 Dmitri Petrovykh - INL

 Francois Reniers

 Fumio Komori



Anouk GALTAY...
Anouk GALTAYRIES

Jay Hendricks

Anton Stampfl

Christoph Eisen...
Christoph Eisenmenger

mmozetic
mmozetic

- Participants (23)**
- Find a participant
- Jay Hendricks (Me)
 - AG Anouk GALTAYRIES (Host)
 - Anton Stampfl
 - DJ Dr. Javaid Bhatti (PAKISTAN)
 - AS Ana Silva
 - AD Arnaud Delcorte
 - CB Carla Bittencourt, University of ...
 - CE Christoph Eisenmenger
 - DO Deborah O'Connell
 - DR Dietrich RT Zahn
 - DP Dmitri Petrovykh - INL
 - FR Francois Reniers
 - FK Fumio Komori

VASSCAA-ISC Discussions 15 November 2021

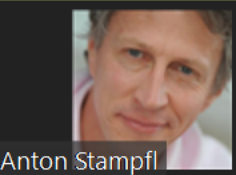
- VASSCAA-11 to be held in Sapporo jointly with IVC-22 (2022)
- VASSCAA-12 (2024): Bids open, close in next 4 weeks
- Next ISC Meeting and dinner to be held in Sapporo

Anouk GALTAY...

Anouk GALTAYRIES



Jay Hendricks



Anton Stampfl

Christoph Eisen...

Christoph Eisenmenger


mmozetic

mmozetic


Participants (24)

Find a participant

- Jay Hendricks (Me)
- AG Anouk GALTAYRIES (Host)
- Anton Stampfl
- AS Ana Silva
- AD Arnaud Delcorte
- CB Carla Bittencourt, University of ...
- CE Christoph Eisenmenger
- DO Deborah O'Connell
- DR Dietrich RT Zahn
- DP Dmitri Petrovykh - INL
- DJ Dr. Javaid Bhatti (PAKISTAN)
- FR Francois Reniers
- FK Fumio Komori



22-26 November 2021, Marseille, France
www.evc16.org



16th European Vacuum Conference

HOME


THE CONFERENCE

INSIDE THE EVENT

ABSTRACTS

REGISTRATION


USEFUL INFORMATION




- Chairs:
 - Irina Martin-Graur, IUSTI, Aix Marseille Univ.
 - Jean-Louis Bersier, ITER Organisation
- Fully in-person
- 140 attendees
- Topics:
 - 9 IUVESTA Scientific Divisions
 - Special topics
 - ITER: energy, plasma and materials
 - 150th Anniversary of Martin Knudsen

Anouk GALTAY...

Anouk GALTAYRIES



Jay Hendricks



Anton Stampfl

Christoph Eisen...


Christoph Eisenmenger


Hernando SALA...



Hernando SALAPARE

Participants (24)


Find a participant


 Jay Hendricks (Me)


 Anouk GALTAYRIES (Host)





Anton Stampfl


 Ana Silva


 Arnaud Delcorte


 Carla Bittencourt, University of ...


 Christoph Eisenmenger


 Deborah O'Connell

 Dietrich RT Zahn

 Dmitri Petrovykh - INL

 Dr. Javaid Bhatti (PAKISTAN)

 Francois Reniers

 Fumio Komori

- Chair: Professor Ludger WIRTZ, University of Luxembourg
- 17 Confirmed Invited speakers
- 5 Confirmed Plenary speakers

CONFIRMED PLENARY SPEAKERS

Prof. Eva Y. ANDREI
RUTGERS University, USA

Prof. Bjørk HAMMER
Aarhus University, DK

Prof. Ulrich HÖFER
Universität Marburg, DE

Prof. Karina MORGENSTERN
Ruhr-University Bochum, DE

Prof. Alec M. WODTKE
University of Göttingen, DE

Anouk GALTAY...
Anouk GALTAYRIES

Jay Hendricks

Anton Stampfl

Christoph Eisen...

Christoph Eisenmenger

Hernando SALA...

Hernando SALAPARE

Participants (24)

Find a participant

Jay Hendricks (Me)

AG

Anouk GALTAYRIES (Host)

Anton Stampfl

AS

Ana Silva

AD

Arnaud Delcorte

CB

Carla Bittencourt, University of ...

CE

Christoph Eisenmenger

DO

Deborah O'Connell

DR

Dietrich RT Zahn

DP

Dmitri Petrovykh - INL

DJ

Dr. Javaid Bhatti (PAKISTAN)

FR

Francois Reniers

FK


Fumio Komori

The 23rd International Vacuum Congress




IVC-23

The 23rd International Vacuum Congress

September 15-19, 2025, Sydney, AUSTRALIA




Supporters




- Working with PCO to prepare final budget
- Working with ICC to hold alternative rooms
- Working on:
 - 1200, 1500, 1800 in-person attendees
 - 50+ exhibitors
- Doubly vaccinated ~71% TOTAL POPL.**
- Single vaccinated ~78%
- NSW ~77% double, 79% single**
 - Eligible (12+) : 91% double, 94% single**
- Booster shots starting
- International borders opening
- Travel to Portugal, Spain, Italy, Germany, UK, Canada, USA, Argentina, Chile, Singapore, Thailand
- By Christmas: Fiji, Indonesia, South Korea
- Early next year: Japan, India

Anouk GALTAY...

Anouk GALTAYRIES



Jay Hendricks



Anton Stampfl

Christoph Eisen...


Christoph Eisenmenger


Hernando SALA...


Hernando SALAPARE


Participants (25)


Find a participant


Jay Hendricks (Me)


Anouk GALTAYRIES (Host)


Anton Stampfl





Cathy Exarhos


Ana Silva


Arnaud Delcorte


Carla Bittencourt, University of ...


Christoph Eisenmenger



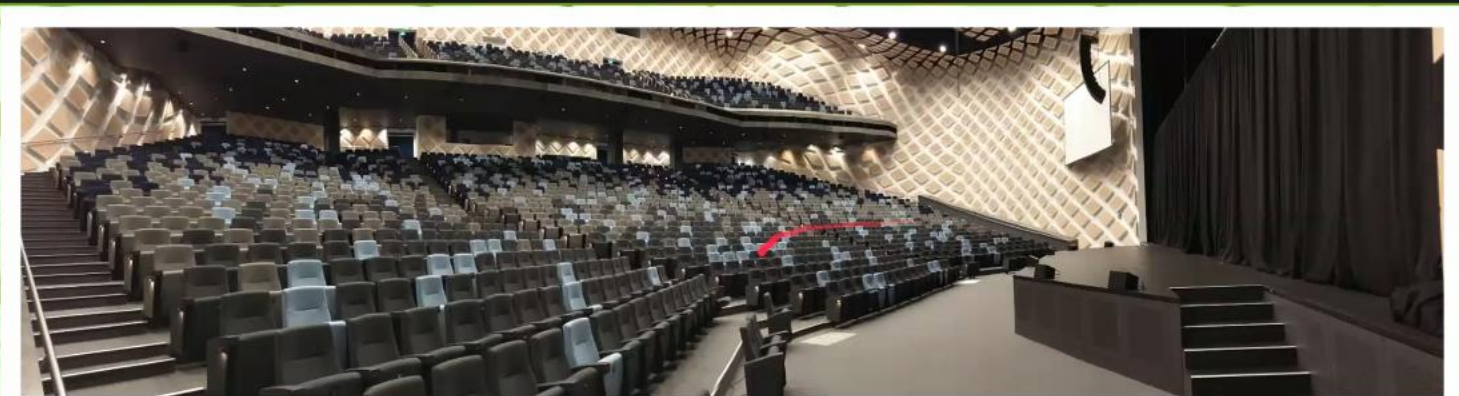
Deborah O'Connell

Dietrich RT Zahn

Dmitri Petrovykh - INL


Dr. Javaid Bhatti (PAKISTAN)

Francois Reniers




Anouk GALTAY...

Anouk GALTAYRIES



Jay Hendricks



Anton Stampfl

Ryszard Czajka

Ryszard Czajka

Hernando SALA...

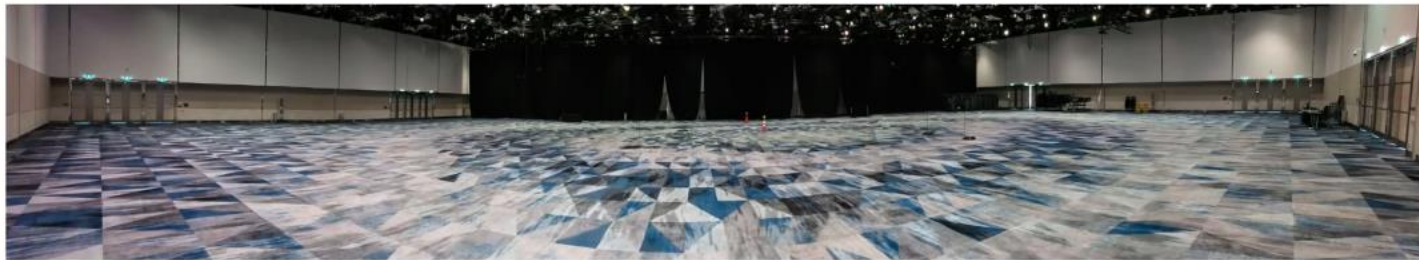
Hernando SALAPARE

Participants (26)

Find a participant

- Jay Hendricks (Me)
- AG Anouk GALTAYRIES (Host)
- Anton Stampfl
- RC Ryszard Czajka
- AS Ana Silva
- AD Arnaud Delcorte
- CB Carla Bittencourt, University of ...
- CE Christoph Eisenmenger
- DO Deborah O'Connell
- DR Dietrich RT Zahn
- DP Dmitri Petrovykh - INL
- DJ Dr. Javaid Bhatti (PAKISTAN)
- FR Francois Reniers

Zoom Meeting

**Anouk GALTAY...**

Anouk GALTAYRIES



Jay Hendricks



Anton Stampfl

Ryszard Czajka

Ryszard Czajka



Ana Silva

Participants (25)

Find a participant



Jay Hendricks (Me)



Anouk GALTAYRIES (Host)



Anton Stampfl

[More >](#)

Ryszard Czajka



Ana Silva



Arnaud Delcorte



Carla Bittencourt, University of ...



Christoph Eisenmenger



Deborah O'Connell



Dietrich RT Zahn



Dmitri Petrovykh - INL



Dr. Javaid Bhatti (PAKISTAN)



Francois Reniers



Screenshots Below of ECM134 meeting
March 18th – 19th 2021

View

Participants in the grid (row by row):

- Row 1: Anouk GALTAYRIES, Jay Hendricks (Unmute), Katsuyuki Fukut..., Francois Reniers, Arnaud Delcorte
- Row 2: petrov, Ana Silva, Anton Stampfl, Greg Exarhos, manfredleisch
- Row 3: elo Ferreira, Sven Ulrich, Fabrizio Giorgis, emmanuelharo..., PEDRO
- Row 4: Maja Mičetić, Yasunori Tanim..., Dr. Javid Bhatti..., Miran Mozetic, Stanislav Novák
- Row 5: Sylvie Bourgeois, Andy Vincze, Timo Gans (BVC), Christian Loren..., Lars Montelius

Participants (40)

Find a participant

- FG Fabrizio Giorgis
- Marcelo Ferreira
- AS Ana Silva
- FR Francois Reniers
- M...

Invite

Unmute Me

Chat

From Lars Montelius to Everyone:

Euronanoforum2021.eu

Another conf already next week - Battery Summit more at web, hopin.com/events/battery-

To: Christian L... (Direct Message) File

Type message here...

Unmute Stop Video Participants 40 Chat Share Screen Record Reactions

Leave

Anouk GALTAYRIES Jay Hendricks Christoph Eisen... Katsuyuki Fukut... Anton Stampfl

Martin Wüest Miran Mozetic Andrej Vincze Ana Silva Sven Ulrich

Sylvie Bourgeois asensio Arnaud Delcorte 43664 Dr. Javaid Bhatti...

Francois Reniers Stanislav Novak emmanuelharo... PEDRO Marcelo Ferreira

Greg Exarhos petrov Lars Montelius ivanda Dmitri Petrovyk...

Participants (35)

Find a participant

- | | | |
|----|-------------------------|-----|
| L | Imarkowski | 🔇 📹 |
| MM | Maja Mićetić | 🔇 📹 |
| | Marcelo Ferreira | 🔇 📹 |
| MR | Mario Rocca | 🔇 📹 |
| M | miguel.manso@uam.es | 🔇 📹 |
| MM | Miran Mozetic | 🔇 📹 |
| P | PEDRO | 🔇 📹 |
| SN | Stanislav Novak | 🔇 📹 |
| | Sven Ulrich | 🔇 📹 |
| SB | Sylvie Bourgeois | 🔇 📹 |
| T | Timo | 🔇 📹 |
| YT | Yasunori Tanimoto (KEK) | 🔇 📹 |

Invite

Unmute Me



Type here to search

12:43 PM
3/18/2021

23

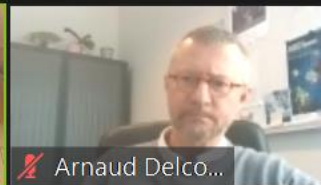
Christian Lorenz S. Mahinay is talking...

 Anouk GALTAYRIES	 Jay Hendricks	 Katsuyuki Fukut...	 Francois Reniers	 Arnaud Delcorte
 petrov	 Ana Silva	 Anton Stampfl	 Greg Exarhos	 manfredleisch
 Marcelo Ferreira	 Joerg Patscheider	 Sven Ulrich	 Fabrizio Giorgis	 emmanuelharo...
 PEDRO	 Maja Mičetić	 Yasunori Tanim...	 Dr. Javaid Bhatti (P...	 Miran Mozetic
 Stanislav Novák	 Sylvie Bourgeois	 Andy Vincze	 Timo Gans (BVC)	 Par Omling



Type here to search

9:22 AM
3/19/2021



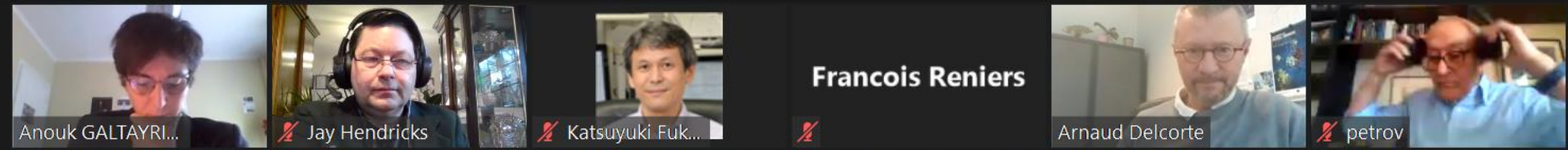
Type here to search



9:26 AM
3/19/2021



32





Contributions of Professor Peter B. Barna to the international thin film community

László Kövér

- From early 1960's Peter along with the late Professor J.F. Pócza, J Antal, and E Hahn, organized of international **thin film forums in Hungary** in order to **enable exchange between East and West**
- The Hungarian conferences led to the establishment of the **first Joint Vacuum Conferences** in 1978-79, which was held as **"Hungarian-Austrian Vacuum Conference" in Győr (Hungary) in 1979**; Initiated by Peter along with Professors Antal, Viehböck, Wagendistel, Grasenick, and E. M. Hörl; the **JVCs series has been IUVSTA endorsed**.
- **One of the founders of the IUVSTA Thin Film Division.** 1977, Peter, as a member of the International Thin Film Committee (ITFC) working in the IUVSTA executive council, initiated the idea for the formation of the IUVSTA Thin Film Division, together with the Chairman of the ITFC Committee, Prof. Max Auwarter, his successor Prof. F. Abeles, and the President of IUVSTA, Prof. Leslie Holland.
- in 1979 the **IUVSTA Thin Film Division** was officially founded with Peter its secretary; **established the IUVSTA ICTF series**
- Organizer or main organizer of **32 IUVSTA forums – conferences, schools, and workshops**
- Barna is **honorary chairman of the Thin Film Division** of the Eötvös Loránd Physical Society since 1980
- **2010 IUVSTA Prize in Science** for his outstanding results in understanding thin film growth phenomena and structure-property relations in one and multiphase thin films.
- 2003 he received the **Albert Nerken Award of AVS** for seminal use of in situ electron microscopy for the characterization and understanding of microstructural evolution and texture development during thin film growth
- **R. F. Bunshah Award** and Honorary ICMCTF Lecture 2015 for pioneering contributions to the understanding of nanostructural evolution during thin-film nucleation and growth based upon in-situ UHV TEM video imaging.



petrov

Péter Barner (acceptance of IUUSTA Honorary Award)





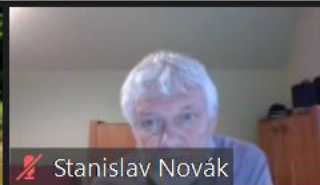
Yasunori Tanim...



Dr. Javaid Bha...



Miran Mozetic



Stanislav Novák



Carlos Tavares

Participants (40)

Find a participant



Lars Montelius



miguel.manso@uam.es



Andy Vincze



Anton Stampfl



Anouk GALTAYRIES



Invite

Unmute Me

Chat

From [Christian Lorenz S. Mahinay](#) to Everyone:

I would like to bring up something also.

From [Anouk GALTAYRIES](#) to Everyone:

Ok Christian, after Lars.

To: [Christian L...](#) (Direct Message) File

Type message here...



Type here to search

11:23 AM
3/19/2021

30



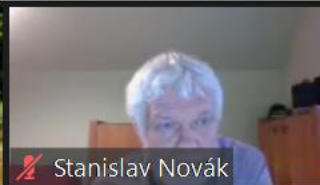
Yasunori Tanim...



Dr. Javaid Bha...



Miran Mozetic



Stanislav Novák



Lars Montelius

Participants (40)

Find a participant

- | | | | |
|-----------|---------------------|--|--|
| AS | Ana Silva | | |
| M | miguel.manso@uam.es | | |
| AV | Andy Vincze | | |
| | Anton Stampfl | | |
| AD | Andrii Delenda | | |

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Chat

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Another conf already next week - Battery Summit more at web, hopin.com/events/battery-summit

To: Christian L... (Direct Message) File

Type message here...



Type here to search

11:24 AM
3/19/2021

30



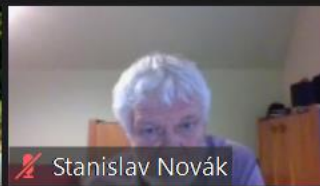
Yasunori Tanim...



Dr. Javaid Bha...



Miran Mozetic



Stanislav Novák



Greg Exarhos

Participants (40)

Find a participant

- AS Ana Silva
- M miguel.manso@uam.es
- AV Andy Vincze
- Anton Stampfl
- AD ...

Invite

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Chat

Euronanoforum2021.eu

Another conf already next week - Battery Summit more at web, hopin.com/events/battery-summit

To: Christian L... (Direct Message) File

Type message here...



Type here to search



11:26 AM



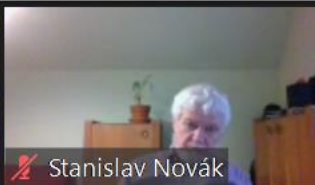
Yasunori Tanim...



Dr. Javid Bha...



Miran Mozetic



Stanislav Novák



Sylvie Bourgeois

Participants (41)

Find a participant

- | | | | |
|-----------|---------------------|--|--|
| SB | Sylvie Bourgeois | | |
| AS | Ana Silva | | |
| M | miguel.manso@uam.es | | |
| AV | Andy Vincze | | |
| | Antes Stani... | | |

Invite

Unmute Me

Chat

at web,
hopin.com/events/battery-summit

From petrov to Everyone: 11:29 AM

<https://icmctf2021.avs.org/>

To: Christian L... (Direct Message) File

Type message here...



Type here to search

11:29 AM
3/19/2021



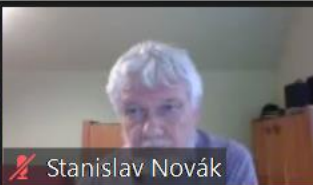
Yasunori Tanim...



Dr. Javid Bha...



Miran Mozetic



Stanislav Novák



View



Ryszard Czajka (Pol.VS)



Unmute



Stop Video



Participants 41



Chat



Share Screen



Record



Reactions

Leave



Type here to search

11:35 AM
3/19/2021

29

Participants (41)

Find a participant

- | | | | |
|----|---------------------|--|--|
| AS | Ana Silva | | |
| M | miguel.manso@uam.es | | |
| AV | Andy Vincze | | |
| | Anton Stampfl | | |
| AD | Arvid Delgado | | |

Invite

Unmute Me

Chat

at web,
hopin.com/events/battery-summit

From petrov to Everyone:

<https://icmctf2021.av5.org/>

1 new message ↓

To: Christian L... (Direct Message) File

Type message here...



Mario Rocca

Imarkowski



Carla Bittencou...



Carlos Tavares



[No Title]



Anton Stampfl

Participants (40)

Find a participant

- M** miguel.manso@uam.es
- AV** Andy Vincze
- AD** Arnaud Delcorte
- CB** Carla Bittencourt, University of ...
- Carlos Tavares

Invite

Unmute Me

Chat

at web,
hopin.com/events/battery-summit

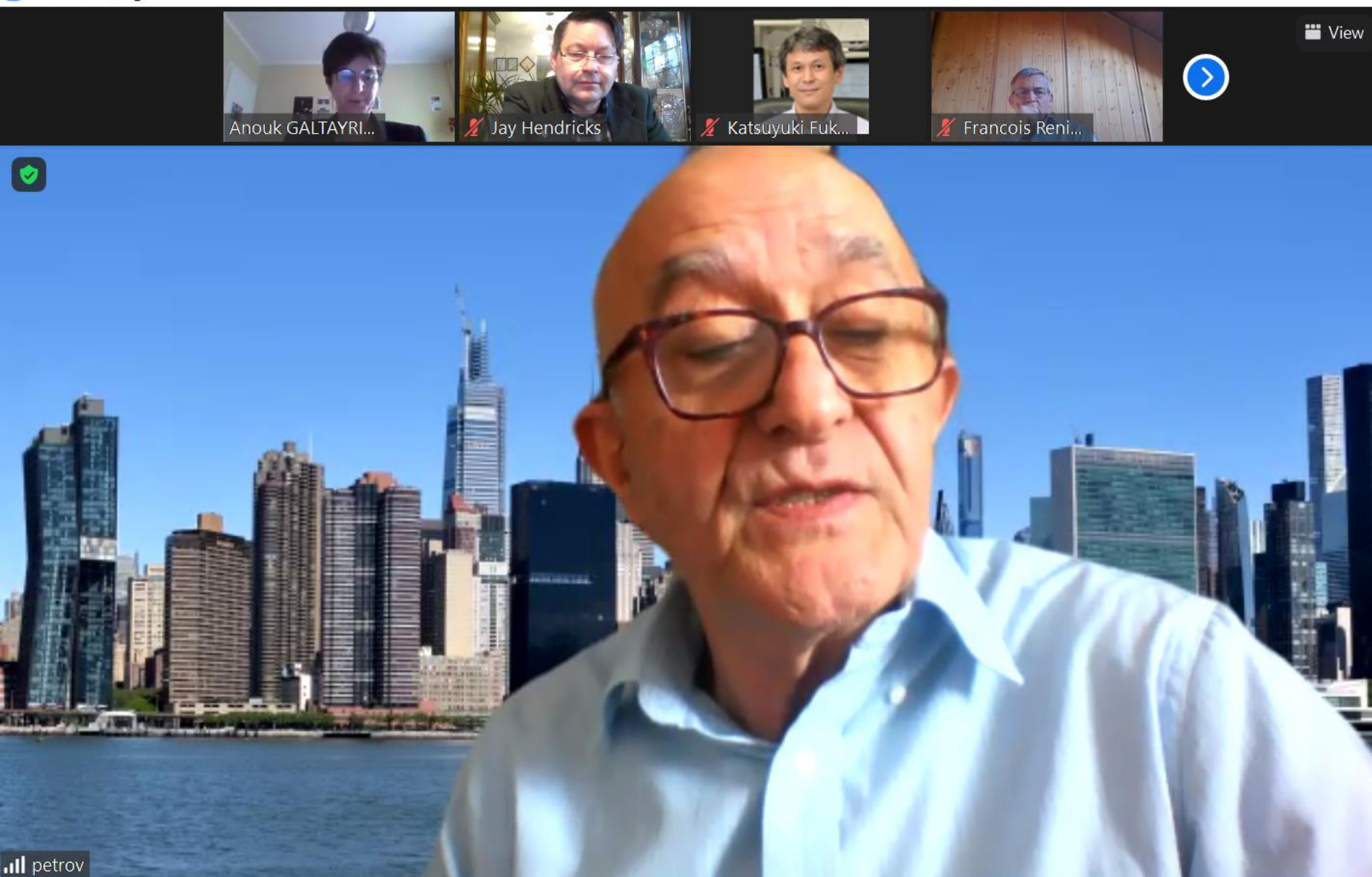
From petrov to Everyone:

<https://icmctf2021.avs.org/>

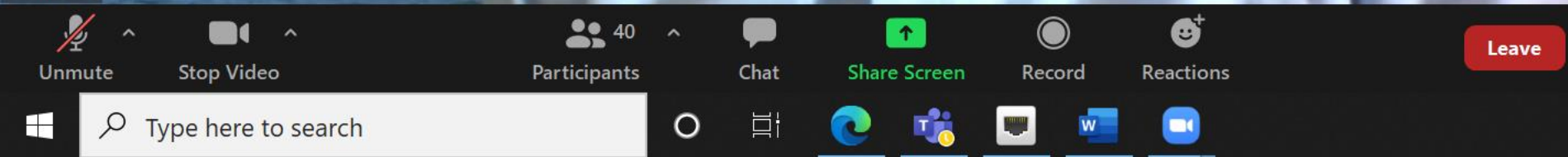
2 new messages

To: Christian L... (Direct Message)

Type message here...



The main window of the Zoom meeting shows a large video feed of a man with glasses and a light blue shirt, speaking. Behind him is a virtual background of a city skyline with a body of water. At the top, a horizontal bar displays four smaller video thumbnails of other participants: Anouk GALTAYRI..., Jay Hendricks, Katsuyuki Fuk..., and Francois Reni... Each thumbnail has a red slash icon indicating they are muted. To the right of these thumbnails is a blue circular button with a white right-pointing arrow and a 'View' button. On the far left of the top bar is a green shield icon. At the bottom left of the main video feed, there is a small status bar showing a signal strength icon and the name 'petrov'.



The bottom of the Zoom window features a dark control bar with several icons and labels: 'Unmute' (microphone icon), 'Stop Video' (video camera icon), 'Participants' (40 people icon), 'Chat' (speech bubble icon), 'Share Screen' (green screen icon with an upward arrow), 'Record' (circular icon), and 'Reactions' (smiley face icon). A red 'Leave' button is on the right. Below this bar is a Windows taskbar with a search bar containing the text 'Type here to search' and several application icons: Windows Start, Edge, Teams, File Explorer, Word, and Zoom.

Participants (40)

-  miguel.manso@uam.es  
-  Andy Vincze  
-  Anton Stampfl  
-  Arnaud Delcorte  
-  Cede Bittercourt University of  

Invite

Unmute Me

Chat

From [Lars Montelius](#) to Everyone:[Euronanoforum2021.eu](#)

Another conf already next week - Battery Summit more at web, [hopin.com/events/battery-](#)

To: [Christian L...](#) (Direct Message)  File

Type message here...

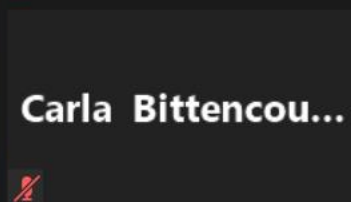
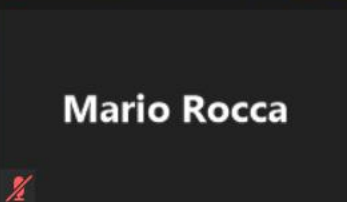
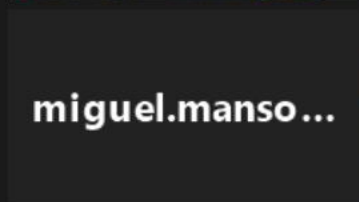
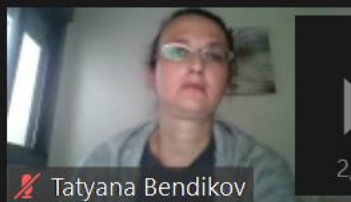
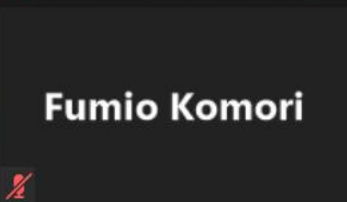
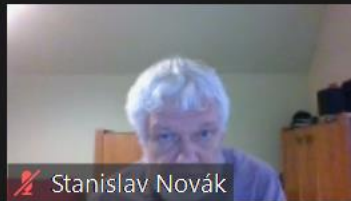
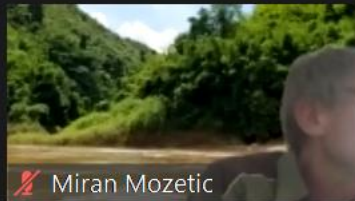


Anouk GALTAYRIES is talking...

View



Yasunori Tanim...



Unmute



Stop Video



Participants 40



Chat



Share Screen



Record



Reactions

Leave

Participants (40)

Find a participant

- AV Andy Vincze
- Anton Stampfl
- AD Arnaud Delcorte
- CB Carla Bittencourt, University of ...
- Carlos Tavares

Invite

Unmute Me

Chat

From Lars Montelius to Everyone:

Euronanoforum2021.eu

Another conf already next
week - Battery Summit more
at web,
hopin.com/events/battery-

To: Christian L... (Direct Message) File

Type message here...



Type here to search

11:43 AM
3/19/2021

29

View

Participants in the grid (row by row):

- Row 1: Anouk GALTAYRIES, Jay Hendricks (Unmute), Katsuyuki Fukut..., Francois Reniers, Arnaud Delcorte
- Row 2: petrov, Ana Silva, Anton Stampfl, Greg Exarhos, manfredleisch
- Row 3: elo Ferreira, Sven Ulrich, Fabrizio Giorgis, emmanuelharo..., PEDRO
- Row 4: Maja Mičetić, Yasunori Tanim..., Dr. Javid Bhatti..., Miran Mozetic, Stanislav Novák
- Row 5: Sylvie Bourgeois, Andy Vincze, Timo Gans (BVC), Christian Loren..., Lars Montelius

Participants (40)

Find a participant

- FG Fabrizio Giorgis
- Marcelo Ferreira
- AS Ana Silva
- FR Francois Reniers
- M...

Invite

Unmute Me

Chat

From Lars Montelius to Everyone:

Euronanoforum2021.eu

Another conf already next week - Battery Summit more at web, hopin.com/events/battery-

To: Christian L... (Direct Message) File

Type message here...

Unmute Stop Video Participants 40 Chat Share Screen Record Reactions

Leave