

# Scientific and Technical Directorate(STD)

Jay Hendricks, Scientific Director

Katsuyuki Fukutani, Scientific Secretary



ECM-134

Virtual Meeting

March 18<sup>th</sup>, 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

## IUVSTA Division

## Chair

## Vice Chair

## Secretary

**ASSD** - Applied Surface Science

**BID** - Biointerfaces Division

**EMPD** - Electronics Materials & Proc.

**NSD** - Nanometer Structures

**PSTD** - Plasma Science & Tech.

**SED** - Surface Engineering

**SSD** - Surface Science

**TFD** - Thin Film

**VSTD** - Vac. Science & Tech.

**EC** - Education Committee

**Leszek Markowski**

**Dmitri Petrovykh**

**Ivana Capan**

**Ana Gomes Silva**

**Satoshi Hamaguchi**

**Ivan G. Petrov**

**María Carmen ASENSIO**

**Mile Ivanda**

**Marcelo J. Ferreira**

**Alberto Tagliaferro**

**John T. Grant**

**Miguel Manso**

**Monika Kwoka**

**Shuji Hasegawa**

**Miran Mozetič**

**Peter Schaaf**

**Mario Rocca**

**Papken Hovsepian**

**Martin Wüest**

**Ana Silva**

--

**Carlos R. Grandini**

**Reinhard Schwarz**

**Carla Bittencourt**

**Deborah O'Connell**

**Monika Jenko**

**Fumio Komori**

**Diederik Depla**

**Joe Herbert**

**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



# IUVSTA NEWS BULLETIN

Number: 186

March 2021



Union Internationale Pour La Science, La Technique et Les Applications du Vide  
International Union for Vacuum Science, Technique and Applications  
Internationale Union für Vakuum Forschung, Technik und Anwendung

## Call for New Workshops, Schools, Technical Training and Short Courses

Dear IUVSTA Members,

Please find the dates for the call for new workshops, schools, technical training and short courses is fast approaching for ECM134!

Important Dates for **NEW** WS/SCH/TCC/SC:

- March 12<sup>th</sup> **Draft** proposal due to Scientific Secretary [fukutani@iis.u-tokyo.ac.jp](mailto:fukutani@iis.u-tokyo.ac.jp), [jayh@nist.gov](mailto:jayh@nist.gov)
- March 16<sup>th</sup> **Final** proposal due (Hard Deadline) [fukutani@iis.u-tokyo.ac.jp](mailto:fukutani@iis.u-tokyo.ac.jp), [jayh@nist.gov](mailto:jayh@nist.gov)
- March 18<sup>th</sup> Virtual ECM 134 will start 1PM CET (Paris).

Statement for the Call on **NEW** WS/SCH/TTC/SC for March 18<sup>th</sup> ECM:

- Virtual only proposals (for 2021) are strongly *encouraged*.
- Virtual events for spring 2022 are also strongly *encouraged*.
- In person only events for 2021 are *discouraged*.
- In person only events for June 2022 and beyond should include a statement on contingency if COVID19 prevents the meeting from occurring as planned.

Statement for the Call on **NEW** WS/SCH/TTC/SC for March 18<sup>th</sup> ECM:

- Virtual only proposals (for 2021) are strongly *encouraged*.
- Virtual events for spring 2022 are also strongly *encouraged*.
- In person only events for 2021 are *discouraged*.
- In person only events for June 2022 and beyond should include a statement on contingency if COVID19 prevents the meeting from occurring as planned.

IUVSTA Statement on COVID-19 for **Previously Approved** WS/SCH/TTC/SC

IUVSTA recommends that the organizers of workshops, schools, technical training courses, short courses, and conferences continue to monitor the COVID-19 situation and make adjustments to the meeting date(s) to avoid virus spread and ensure participant safety. IUVSTA encourages science to continue with the use of virtual meetings. Small, regional in person meetings should only be considered where the virus is well contained.

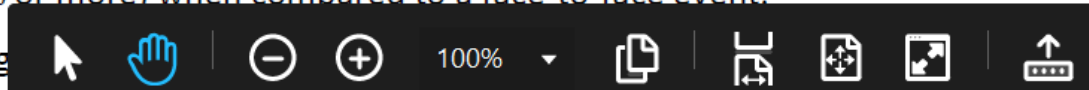
Message to IUVSTA Organizers and Division Chairs for **Previously Approved** WS/SCH/TTC/SC

Organizers of relatively small *in-person* meetings (WS, SCH, SC, TTC's) funded for 2020-2021(and earlier) are asked to move these to *virtual events* for 2021 and early 2022. Please note that IUVSTA funding can be used to help reduce the virtual-participant registration cost down to free. If additional IUVSTA funds are needed to convert from in person to virtual a small amount (~1,000 euro) can be requested. IUVSTA can also provide a teleconference solution if needed. If a virtual event cannot be planned or considered, please submit a request to reschedule to a future date and work with IUVSTA to plan an event that best fits the overall meeting calendar.

A note on new “virtual only” WS:

Budgets for “virtual only” WS will be carefully reviewed. It is anticipated that the cost of an all virtual workshops will be significantly reduced (50% or more) when compared to a face-to-face event.

NOTE: If you are preparing



# AGENDA STD ECM-134

ECM-134-10-A-02

ECM-134-10-A-02

## 1. Opening and Welcome (15 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\\_134/ecm\\_133\\_01\\_01\\_minutes\\_2020\\_10\\_10.pdf](https://iuvsta.org/iuvsta2/assets/docs/meantime/ECM_134/ecm_133_01_01_minutes_2020_10_10.pdf)

## 2. Divisional reports (30 min)

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

Dr. Jay H. Hendricks, Scientific Director IUVESTA



## 2. Division Reports (30 min)

ECM-134-10-A-02

ECM-134-10-A-02

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		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	María	Mario Rocca	Fumio Komori
TFD (2-3 min)	Mile Ivanda	Mile	Papken Hovsepian	Diederik Depla
VSTD (2-3 min)	Marcelo J. Ferreira	Marcelo	Martin Wüest	Joe Herbert
Education	Alberto Tagliaferro	Not presenting in STD	Ana Silva	Sylvie Bourgeois



### 3. Presentation on Past WS/SCH/TTC/SC (15 min)

ECM-134-10-A-02

ECM-134-10-A-02

Proposal filename	Place/ Country	Date	Organizer (underwriter)	IUVSTA Division	Presenter	Title	Requested Funding (€)
#1-WS-Proposal_1	Online (only)	Jan 20-22, 2021	PlasmAdvance AB	SE, NSD	Ulf Helmersson	HiPIMS Today-Recent Development of High-Power-Impulse Magnetron Sputter	3200



# 4. Proposals of Workshops (WS) and Schools (SCH) for approval (15 min)

ECM-134-10-A-02

ECM-134-10-A-02

Proposal filename	Place/ Country	Date	Organizer (underwriter)	IUVSTA Division	Presenter	Title	Requested Funding (€)
#1-Sch-1	"Hybrid or full online"	May 31st – 4 <sup>th</sup> 2021	Czech Physical Society, the Union of the Czech Mathematicians and Physicist	(EC)	Antonín Fejfar	Physics at Nanoscale [part of school series, with previous schools at 2017 (as 16th IUVSTA school), 2014, 2011 (10th), 2008 (9th), 2005 (6th)]	4000



## 5. Any additional updates on these? (5 min)

ECM-134-10-A-02

ECM-134-10-A-02

Proposal filename	Place/ Country	Date	Organizer (underwriter)	IUVSTA Division	Presenter	Title	Requested Funding (€)
#2_SC_proposal_1	Marseille France	November 22-25 2021 included in EVC 16	French Vacuum Society(SFV)	(EC)	Sylvie Bourgeois	Gas flows under vacuum conditions: from theory to applications	2000
#3_TTC_proposal_1	Virtual (Quezon City, Philippines)	April 15, 16 2021	Vacuum Society of the Philippines	(EC)	Kathrina Lois Taaca	Plasma and Society	2000



# 6. Status of existing WS as of 3-14-2021

ECM-134-10-A-02

ECM-134-10-A-02

title	Place/ Country	Status/Date	Organizer (underwriter)	IUVSTA Division	Primary Contact	Title	Requested Funding (€)
WS 90	Spain	"hybrid 18-22 October 2021"		SSD	Juan.F.Sanchez@uv.es	Tuning properties of advanced energy materials using modern theoretical and experimental methods	6000
WS 91		"Shifted to Feb.- March 2022, in person"		NSD	baran.eren@weizmann.ac.il	Surface Chemistry of Catalytic Systems	6000
WS 92	Okinawa Japan	sept 2021as planned: hybrid	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	postpone it to spring 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	planned in Summer/Autumn 2021 <del>7-12, March 2021</del>	Slovenian Vacuum Society	PSTD	Miran Mozetič	Reliable sensing and control of reactive plasmas	9000
WS 95	Guimarães Portugal	postpone to 20-23 june, 2022 <del>4-7, Oct. 2021</del>	University of Minho	TFD	Joel Borges	Plasmonic Thin Films: Theory, Synthesis and Applications	6000

# 7. Status of existing Proposals (EC) as of 3-14-2021

ECM-134-10-A-02

ECM-134-10-A-02

title	Place/ Country	Status/Date	Organizer (underwriter)	IUVSTA Division	Primary Contact	Title	Requested Funding (€)
TTC 21	Štrbské Pleso, Hotel Trigan	Postponed to online/hybrid, Oct. 2021	Slovak Vacuum Society	(EC)	Andy Vincze	Vacuum technology, principles and applications	2500
TTC 22	Islamabad Hotel, Islamabad, Pakistan	Postponed to June 08-10, 2021	Pakistan Vacuum Society	(EC)	Javaid Ahsan Bhatti	IIUVSTA TTC on Vacuum Technology Applications	2500
TTC 23	Universidad Nacional de San Martin, Argentina	standby until next year 2022 Postpone to February and May 2021. Virtual?	Asociación Física Argentina	(EC)	Miguel Sanchez	Intro to Vac Sci, Tech, and Application: from Nano sci to outer space	2500
SC	Córdoba, Spain	shifted to Sep. 26, 2022 Sept. 27, 2021 <a href="https://leempeem12.secv.es/">https://leempeem12.secv.es/</a> Virtual?	Vacuum Society- Spain	(EC)	miguel.manso @uam.es	Low Energy and PhotoEmission Electron Microscopy	1000

## 8. Final items ECM-134-10-A-02

### • Endorsements

- The request for IUVSTA Sponsorship for the “Workshop on Electron Microscopy and its Applications” (Virtual Event on 28/04 and 29/04) with Carla Bittencourt, Chair; Michel Vouè, Scientific Chair is approved in an email vote of division chairs and reported to the STD. Email vote Vote 10 Yes / 0 Abstention / 0 No
- ICN+T: Sarah Burke [saburke@phas.ubc.ca](mailto:saburke@phas.ubc.ca), Request for IUVSTA Sponsorship for the ICN+T virtual conference to be held July 11-16 was voted by STD and Approved. The live vote was unanimous yes vote for all present and the IUVSTA Sponsorship is **approved** (9 Yes / 0 Abstention / 0 No). The request for financial support for IUVSTA to support a session and student registration fee reduction was discussed and supported in general but will be sent to the ECM for final approval.

## 9. Adjourn

**Jay Hendricks, Scientific Director, March 18<sup>th</sup>, 2021**

*Jay Hendricks*

Scientific Director, 2019-2022

IUVSTA



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

Dr. Jay H. Hendricks, Scientific Director IUVSTA

## ECM-134-10-A-02

### Request for Endorsement of a Conference/ Meeting by IUVSTA

Please complete this form and return it to the Secretary General

TITLE OF EVENT Workshop on Electron microscopy and its applications

VENUE Virtual meeting

DATES 28/04 and 29/04

PRINCIPAL THEMES OF THE EVENT

Electron microscopy applied to nanomaterials and biology

Circle the name of the appropriate IUVSTA Division: Applied Surface Science; Electronic Materials & Processing; Nanometer Structures; Plasma Science and Technique; Surface Science; Thin Film; Vacuum Metallurgy; Vacuum Science

Expected Attendance: Number 50

Nationalities Belgium, Mexican, Slovenian, Brazilian, Canadian, French, Portuguese  
Italian, Indian, Russian

Are abstracts and other communications in English, French or German? ...Yes..... (Yes/No)

Exhibition arrangements (if any) NO

NAMES AND NATIONALITIES OF INVITED SPEAKERS (if any)

Maureen Joel Lagos - Peruvian

Natalie Reznikov - Israeli

NAMES OF OTHER SPONSORS and ENDORSERS (actual and applied for)

NAMES AND NATIONALITIES OF PROGRAMME COMMITTEE ..... (Separate Sheet)

With contact addresses

CHAIR Carla Bittencourt

CHAIR OF SCIENTIFIC/PROGRAMME CTTEE Michel Vouè

Website url:

Name/ e-mail address of person who will maintain the site:

Registration via email: IM.workshops@umons.ac.be

UNDERWRITING: Who will underwrite any financial loss?

University of Mons, will support the costs of the virtual Workshop and possible financial loss



# Scientific and Technical Directorate(STD)

Jay Hendricks, Scientific Director

Katsuyuki Fukutani, Scientific Secretary



ECM-134

Virtual Meeting

March 19<sup>th</sup>, 2021





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



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12:43 PM  
3/18/2021

23

# IUVSTA Virtual School on Physics at Nanoscale

ECM-134-10-A-02

ECM-134-10-A-02

\*\*\*\*\*  
\*\*\*\*\*

**(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 IUVSTA School with IUVSTA 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 IUVSTA Sch with IUVSTA financial support of 4000 EUR.**

\*\*\*\*\*  
\*\*\*\*\*

The screenshot shows a Zoom meeting interface. At the top, a green bar indicates 'You are viewing Antonin Fejfar's screen'. Below this, four video thumbnails are visible: Jay Hendricks, Anouk GALTAYRI..., Dr. Javadi Bhatti (...), and Antonin Fejfar. The main content area displays a presentation slide titled 'IUVSTA International Summer School on Physics at Nanoscale'. The slide includes the URL 'http://iss.fzu.cz/', a 1 nm scale image, and text stating 'Due to the COVID-19 pandemic, the school has been transferred to 2023.' The sidebar on the right shows a 'Next slide' preview titled 'School venue' with images of Hotel Skalský Dvůr and a building. The bottom of the screen shows the Zoom controls bar with icons for Mute, Stop Video, Participants (38), Chat, Share Screen, Record, and Reactions. A Windows taskbar is visible at the very bottom.

# IUVSTA Endorsement of Workshop on Electron Microscopy and its Applications

ECM-134-10-A-02

ECM-134-10-A-02

Dear Madam President,

The STD held an email vote on the request for IUVSTA Sponsorship for a Virtual Event “**Workshop on Electron Microscopy and its Applications**” (Virtual Event on April 28<sup>th</sup> and 29<sup>th</sup>) with Carla Bittencourt, Chair; Michel Vouè, Scientific Chair. The request is **approved** in an email vote of division chairs and reported to the STD. Email vote Vote 10 Yes / 0 Abstention / 0 No



# IUVSTA Endorsement of ICN+T Conference

ECM-134-10-A-02

ECM-134-10-A-02

Dear Madam President,

The STD held a vote on IUVSTA sponsorship of the **ICN+T** meeting requested by Sarah Burke be held July 11<sup>th</sup> -16<sup>th</sup> as virtual conference. The request was voted by STD and **Approved**. The vote of (9 Yes / 0 Abstention / 0 No). The request for financial support for IUVSTA to support a session and student registration fee reduction was discussed and supported in general but will be sent to the ECM for final approval.



# Thanks!

**Jay Hendricks, Scientific Director, March 19<sup>th</sup>, 2021**

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*Jay Hendricks*

Scientific Director, 2019-2022  
IUVSTA



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

- Below ECM meeting March 19<sup>th</sup>
- Above is STD meeting March 18th

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



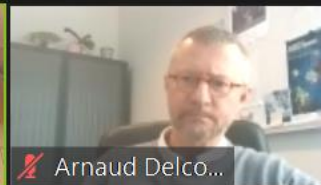
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3/19/2021







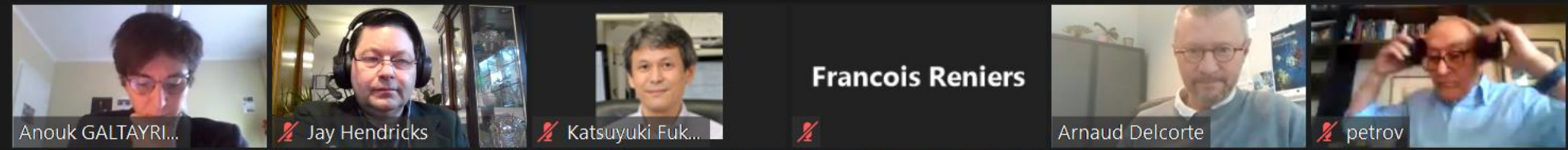
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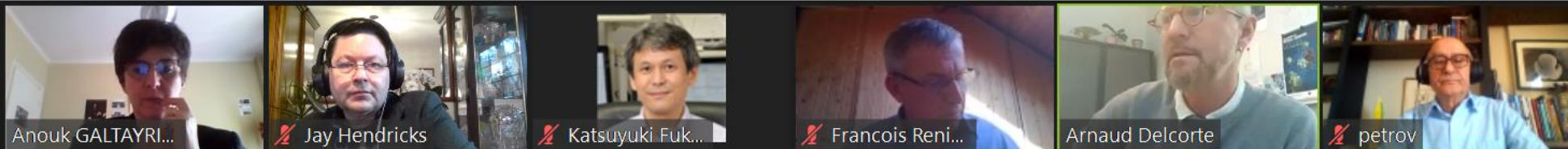


32



Christoph Eisenmenger-Sittner





Accueil Outils Présentation Power...

Se connecter

## 2. Budget for 2021 (in €)

	2020/2022 voted	2021
<b>Income:</b>		
Subscriptions (share value of 150 € per ye	61924	20000
Interest	18000	6000
Donation (Welch Award, Elsevier)	39000	13000
Company engagements	10000	0
Donation (from IVC)	45000	0
Transfer from general fund	75000	39453
<b>Total income</b>	<b>248924</b>	<b>78453</b>
<b>Expenditure:</b>		
Communication (website)	8000	3000
Educational Activities/Webinars	22000	8000
Workshops/Schools	120000	21000
Officers discretionary expenses and travel	14000	3000
Liability insurance for IUVESTA president	1000	333
ICSU/NGO-UNESCO	2000	600
Bank charges, taxes, commitments, miscel	4000	1400
Accountant for tax fillings	2750	620
IUVESTA Prize	14000	0
IUVESTA highlights	10000	10000
Welch-IUVESTA award	39000	13000
Ebara-IUVESTA award	4500	0
Grant VASCAA Elsevier	0	2000
integration new societies	2000	1500
International year IYBSSD 2022	0	10000
unexpected expenses	5000	4000
Transfer to general fund	0	
<b>Total expenditure</b>	<b>248250</b>	<b>78453</b>

→ To balance the expenses

TTC21 + TTC22 + SC LEEM  
+ SC EVC16

WS92+WS94+1School  
(ECM134)

→ EVC16 November 2021

→ Full contribution

→ Special support pandemics  
(ICN+T 2021,...)

7



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3/19/2021

32



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V

Close

Accueil

Outils

Présentation Power... ✕

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🔔

Se connecter

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Standard

✓ Side-by-side: Speaker

Side-by-side: Gallery

Release Video Order

Fullscreen



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- To balance the expenses

TTC21 + TTC22 + SC LEEM  
+ SC EVC16

WS92+WS94+1School  
(ECM134)

EVC16 November 2021

### Full contribution

Special support pandemics  
(ICN+T 2021,...) 7

 Anouk GALTAYRIES





## 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, Wagendristel, 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.



Anouk GALTAYRIES



Jay Hendricks



Katsuyuki Fukutani



Francois Reniers



Arnaud Delcorte



petrov



Ana Silva



Anton Stampfl



Greg Exarhos



manfredleisch



Marcelo Ferreira



Sven Ulrich

Speakers/Headphones (Realtek(R) Audio)



83



Type here to search



10:07 AM  
3/19/2021



31





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

László Kövér

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petrov



# Pertter Barna (acceptance of IUVSTA Honorary Award)





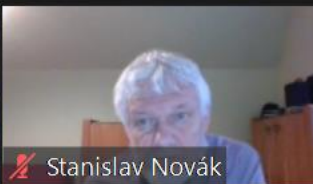
Yasunori Tanim...



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



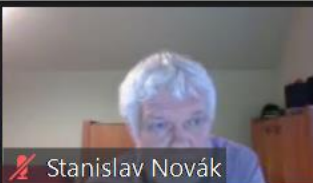
Yasunori Tanim...



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 | Arvid Delgado       |  |  |

Invite

Unmute Me

## Chat

Euronanoforum2021.eu

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





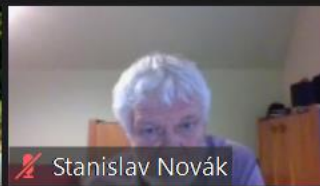
Yasunori Tanim...



Dr. Javid 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

Unmute Me

Chat

Euronanoforum2021.eu

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

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

Type message here...



Type here to search



11:26 AM





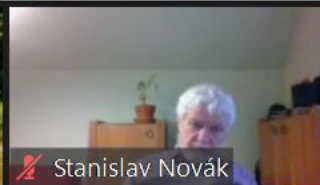
Yasunori Tanim...



Dr. Javid Bha...



Miran Mozetic



Stanislav Novák



Sylvie Bourgeois

## Participants (41)

Find a participant

- |           |                     |  |  |
|-----------|---------------------|--|--|
| <b>SB</b> | Sylvie Bourgeois    |  |  |
| <b>AS</b> | Ana Silva           |  |  |
| <b>M</b>  | miguel.manso@uam.es |  |  |
| <b>AV</b> | Andy Vincze         |  |  |
|           | Antes Stana...      |  |  |

Invite

Unmute Me

## Chat

at web,  
[hopin.com/events/battery-summit](https://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

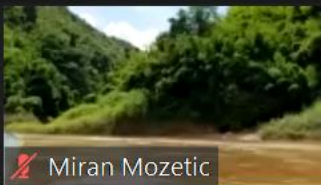
30



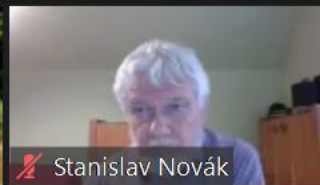
Yasunori Tanim...



Dr. Javid Bha...



Miran Mozetic



Stanislav Novák



View



Ryszard Czajka (Pol.VS)



Unmute



Stop Video



Participants 41



Chat



Share Screen



Record



Reactions

Leave

## Participants (41)

Find a participant



Ana Silva



miguel.manso@uam.es



Andy Vincze



Anton Stampfl



Adrian Delgado



Invite

Unmute Me

## Chat

at web,  
[hopin.com/events/battery-summit](https://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...



Type here to search

11:35 AM  
3/19/2021

29





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](https://hopin.com/events/battery-summit)

From petrov to Everyone:

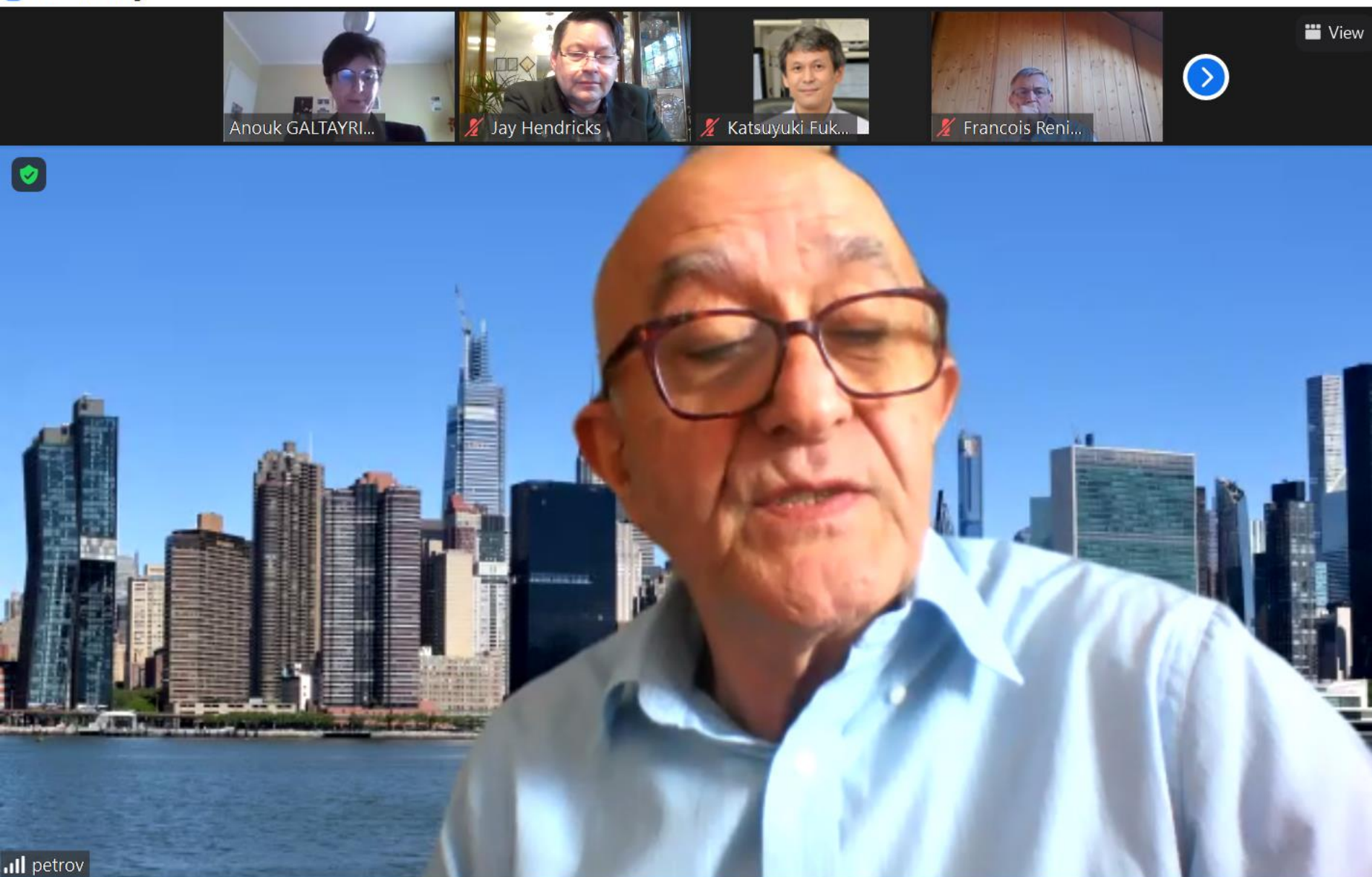
<https://icmctf2021.avs.org/>

2 new messages

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

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 feeds of other participants: Anouk GALTAYRI..., Jay Hendricks, Katsuyuki Fuk..., and Francois Reni... Each has a red slash icon indicating they are muted. To the right of these feeds is a 'View' button and a blue arrow icon. On the far left of the top bar is a green shield icon.

petrov



Unmute



Stop Video



Participants 40



Chat



Share Screen



Record



Reactions

Leave



Type here to search

11:43 AM  
3/19/2021

29

## Participants (40)

Find a participant

- M miguel.manso@uam.es
- AV Andy Vincze
- Anton Stampfl
- AD Arnaud Delcorte
- CP Cade Pittscoot 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-](https://hopin.com/events/battery-)

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

Type message here...



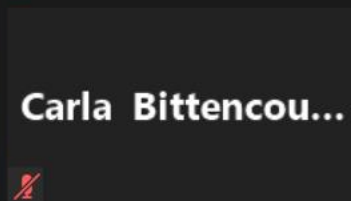
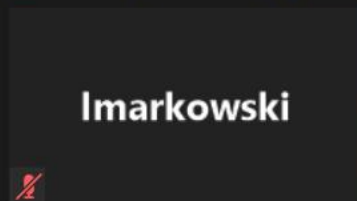
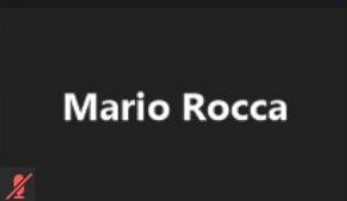
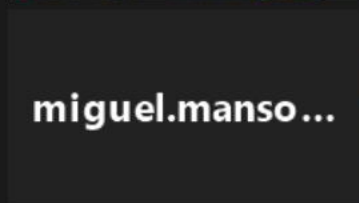
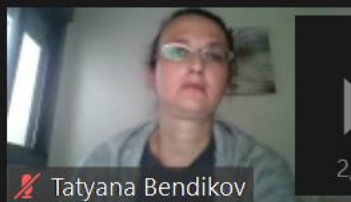
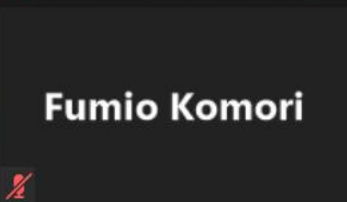
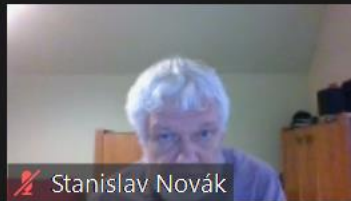
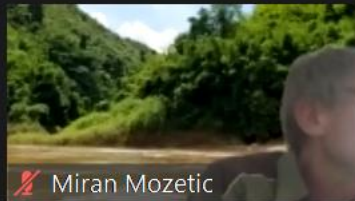


Anouk GALTAYRIES is talking...

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-](https://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. Javaid 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

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

Type message here...

Unmute Stop Video Participants 40 Chat Share Screen Record Reactions

Leave

	WS Workshops	SCH Schools	TCC Technical Training Course	SC Short Course (may adapted to webinar)
<b>Submission:</b>	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
<b>Summary/ Purpose:</b>	To <b>advance</b> scientific knowledge in a field; rather than be educational of existing knowledge	To <b>educate</b> on existing knowledge	To <b>educate at the beginner level</b> , generally not same topic in sequential years	To <b>educate on existing knowledge</b> “state of the art “in a specific field
<b>Organized by/Underwriter</b>	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
<b>Format:</b>	Format should be like that of a “ <b>Gordon Conference</b> ” with no publication of proceedings.	Format is a <b>school</b> with Intense instruction on a specific topic with learning/educational materials provided.	Format Example: <b>Practical</b> vacuum science for the regional technician /engineer	<b>Held in conjunction with existing scientific meeting.</b> Example AVS Short Courses
<b>Location:</b>	Remote location (not large city) in a hotel, hostel, university campus, or small town.	Typically, University campus	Regional	Regional to Main scientific meeting
<b>Size/Duration</b>	40-50 delegates 4-6 days	40-80 students 1 to 2 weeks	Any 1-3 days	any 1-2 days
<b>Participation:</b>	Organizers invite 10-20 talks of <b>International</b> experts	<b>International</b> teaching experts in the field	<b>Regional</b> experts and students	<b>Regional</b> experts and students
<b>Program:</b>	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.
<b>Funding:</b>	<b>6,000-9,000 Euro</b>	<b>6,000-9,000 Euro</b>	<b>2,500 Euro</b> maximum	<b>2,000 Euro</b> maximum
<b>Language:</b>	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).
<b>Approval Route</b>	STD→ECM	STD→ECM	EC→STD→ECM	EC→STD→ECM