

Education Committee (EduComm)

Alberto Tagliaferro, Chair
Ana Gomes Silva, Vice-Chair
Sylvie Bourgeois, Secretary



ECM 137
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TRIENNIUM OVERVIEW

EC activities were focused on:

- **evaluation of applications** for Technical Training Courses, Short Courses, Schools
- **launch of the IUVSTA Webinars program**

At the beginning of the Triennium **we agreed with STD that handling together applications** for WS, TTC, ... **was more efficient and sound.**

We stucked to this approach for the Triennium.

Details about TTC and Schools are part of the STD report

The geographic spread of the funded applications:

- 1 School** (Czech Republic)
- 7 TTC** (Slovakia, Slovenia, Spain, **Argentina, Brazil, Pakistan, Philippines**)
- 4 SC** (France, Spain, **Japan, USA**)

For COVID related reasons Argentina TTC was canceled and Spain SC postponed to 2023

IUVSTA Webinars

OVERVIEW

EC was given the task to start the IUVSTA Webinar Program

Aims of the Program are:

- **deliver on a regular basis webinars** on scientific and technical subjects
- **reach out interested people** (researchers, amateurs, MSc and PhD students), **in particular those living and working in ‘third world countries’** (i.e. having lesser ease to travel and to be reached by scientific updates)

‘Byproducts’ of the Program are:

- **building a database of people** willing to be reached by IUVSTA news
- **set up an archive of webinars** that can be used in TTC, Schools, ...

The initial structure was:

- **use of an OS platform** provided by Politecnico di Torino
- **advertise the webinars through IUVSTA canals**
- **make the recorded webinars available** through a restricted access part of the AIV site

IUVSTA Webinars

OVERVIEW

The structure has evolved in a more professional one in which **new webinars are handled in the framework of an agreement with IOP Publishing**, following an input from IUVSTA President

WEBINARS

- **ARE BROADCASTED THROUGH IOP PLATFORM**
- **ARE ADVERTISED BY IOP** through their channels **AND BY IUVSTA** with the newsletters and by placing info and links on the website
- **CAN BE ACCESSED ONLINE** through physics portal physicsworld.com/
- **APPEAR AS ‘FEATURED WEBINARS’** on the homepage of the portal **A FEW WEEKS BEFORE THE WEBINAR DATE**
- **ARE RECORDED** and currently available through Physics world portal

WEBINARS FULL LIST (not only IUVSTA ones) **IS AVAILABLE AT** physicsworld.com/l/webinars/

IOP TAKES CARE OF FINDING SPONSORS to cover the costs of broadcasting.
NO COSTS FOR IUVSTA AND FOR ATTENDEES.

SPEAKERS ARE GIFTED WITH A BOOK OF THEIR OWN CHOICE IN THE IOP CATALOGUE

IUVSTA Webinars

BROADCASTED WEBINARS

before 2021: **3**

in 2021: **7**

in 2022: **3**

Webinar title	Speaker	Date	Pre-registered	Attended live	IUVSTA info	Sponsors
Focused Ion Beam: a "tool" for micro/nano fabrication and characterization	Firpo	Feb 24	84	44		Hiden
Introduction to scanning Auger spectroscopy and microscopy	Kolíbal	March 3	82	45	52	Agilent
Quantum-based pressure and vacuum measurements and NIST on a chip	Hendricks	June 6	129	77	66	INFICON Agilent
Plasma processing challenges in the era of sub-nanometre-node semiconductor devices	Hamaguchi	August 24	150	74	90	Hiden Agilent MKS Pfeiffer
Nanocolumnar films: applications in medicine, energy and aerospace	García-Martín	Nov 2	103	49	79	Hiden
Past, present and future of Gas Aggregation Source for Nanoparticle Synthesis - A unique tool for fundamental studies and applications	Huttel	Nov 25	80	60	39	Hiden
Variational Principles and Topological Constants of Motion for MHD	Yahalom	Dec 3	64	12	37	Hiden
Bipolar HIPIMS	Lundin	Jan 20	182	82	119	Ionautics, Hiden
Vacuum technology for mimicking cosmic-dust formation in dying stars	Martin-Gago	May 11	113	55	75	Hiden
Martin Knudsen: a pioneer in gas flows	Schou	May 10	79	38	61	Hiden
			1066	536	618	

the mailing list of people willing to receive IUVSTA info has currently 575 entries

IUVSTA Webinars

ATTENDANCE BY COUNTRY

People of 68 countries attended

50 attendees from 'third world countries' (countries with difficult access to science and to abroad trips)

AFRICA

Algeria
Camerun
Ethiopia
Ghana
Lybia
Nigeria
Sudan
Tunisia
Zambia

ASIA

Indonesia
Iraq
Jordan
Khazakistan
Myanmar
Nepal
Philippines

AMERICA

Costarica
Perou
Venezuela

EUROPE

Kosovo

IUVSTA Webinars
WEBINAR PROJECT UPS



Collaboration with IOP at no cost for IUVSTA smoothly working

High level webinars broadcasted

All webinars were appreciated by the audience

Mailing list of people interested by IUVSTA activities growing steadily

Reaching out to third world countries in agreement with the ‘diffusion of science’ target

IUVSTA Webinars

WEBINAR PROJECT DOWNS



In 2022 momentum was lost (only 3 webinars vs 7 in 2021)

Divisions and Societies not properly involved in proposing and selecting webinars

Need of a IUVSTA managed repository where to store the webinars

Need for a restricted access site (accessible from IUVSTA homepage) through which give access to the recorded webinars when IOP will remove them from PhysicsWorld site

Make societies aware of the possibility to use the existing webinars for their activities

A procedure to certify attendance is not yet operational

IUVSTA Webinars

TURNING DOWNS IN UPS



PROBLEM	TROUBLESHOOTING
LOST MOMENTUM	EC needs to brainstorm to identify proper actions
DIVISIONS INVOLVEMENT	Online meetings with the new divisions officers to make them properly aware of the IUVSTA Webinar program
RESTRICTED ACCESS SITE	Need for a software developer to set up the site. Once the site is working it can be managed by EC
REPOSITORY	Set up a HD connected to a server to be accessed through the restricted site
SOCIETIES AWARENESS	Write and distribute to the Societies a synthetic memo (i) describing the program, and (ii) highlighting how the Societies can take advantage of it
CERTIFICATION	Ask IOP how to monitor real attendance. Deliver a certificate of attendance, not of proficiency.

IUVSTA Webinars
LEARNING PATHS
MASTER CLASSES

UNTIL NOW IUVSTA HAS BROADCASTED '**SPOT WEBINARS**' (ON SPECIFIC SUBJECT OF HIGH INTEREST).

A STEP FORWARD WILL BE TO ADD '**LEARNING PATH WEBINARS**'.
THE IDEA IS TO HAVE A LEARNING PATH (EXAMPLE: VACUUM TECHNOLOGY) IN WHICH THE VARIOUS WEBINARS WILL BE 'CHAPTERS'

MASTER CLASSES (INTERACTIVE WEBINARS) ARE ALSO AN ITEM CURRENTLY DISCUSSED WITH IOP.