



1958-2018

60 years of the Union



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**ECM-131-20B-01**

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# EDUCATION COMMITTEE

Alberto Tagliaferro – incoming Chair



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# ACTIVITIES and GUIDELINES



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SCHOOLS

SHORT COURSES

TECHNICAL TRAINING COURSES

VISUAL AIDS PROGRAM

TECHNICAL MATERIAL



WEBINARS

Schools are established to provide education in a scientific topic within the fields covered by IUVSTA

The IUVSTA Schools program was established to provide education in a scientific topic within the fields covered by IUVSTA.

A school is intended to provide an opportunity for students, particularly those who would not normally have such an opportunity without some support, to attend lectures and discussions with experts in the field.

Schools will typically comprise 40-80 delegates. They will normally last 4-6 days. In order to guarantee the financial stability of such a meeting these meetings are supported by a contribution from the IUVSTA STD Discretionary Fund, currently to a maximum of 10,000 Swiss Francs.

They are organized by one or more of the Scientific Divisions.

[Guidelines for IUVSTA Schools](#) available

It will be interesting to verify if material from schools can be made available for educational purposes

Short Courses are held (usually in conjunction with conferences organized or sponsored by IUVSTA) to provide practically useful technical information on special techniques and procedures applicable within the fields covered by IUVSTA

It will be interesting to have a complete list of the courses so that:

- information can be shared with the divisions and national societies
- subject of interest for the webinars might emerge

[Technical Training Courses](#) are held in national languages to disseminate fundamental knowledge related to vacuum technology in Member Societies of the IUVSTA

The Union supports National Vacuum Societies, which are members of IUVSTA, in organizing Technical Training Courses locally, in the local language for the principle benefit of technicians, production engineers and students. IUVSTA helps for the organisation and with a small subsidy for attendees. The IUVSTA grants are primarily intended to be used for travelling/accommodation subsidies within their own national borders for participants and lecturers at the Technical Training Courses.

[Guidelines for Technical Training Courses](#) available

Specific webinars will be made available to the Schools upon request

The [Visual Aids Program](#) provides material (ppt slides and slide series) which could be used by presenters of various courses related to fields covered by IUVSTA (each module € 70)

|                 |                                      |                 |   |
|-----------------|--------------------------------------|-----------------|---|
| <b>Module 1</b> | Fundamentals of Vacuum               | <b>Module 2</b> | Total Pressure Measurements in Vacuum   |
| <b>Module 3</b> | <b>In preparation</b>                | <b>Module 4</b> | Partial Pressure Analysers and Analysis |
| <b>Module 5</b> | <a href="#">Thin Film Deposition</a> | <b>Module 6</b> | Leak Detection                          |

There is a need to verify the status of the various modules and to improve the readout of the page:

- name of the '*in preparation*' module(s)
- description of the module

Useful links to further educational material (databases, introductory information, lectures) connected with fields covered by IUVSTA are available on the [Technical Material](#) page which contains additional information on other actual educational activities as well.

Among Technical Material we can list: News Bulletins, History of IUVSTA, History of Member Societies, **Education Materials**, and the IUVSTA Brochure.

Check the existing material to verify if it can be made more easily available to visitors

## AIM

**Create an archive of introductory and specialistic talks** on subjects that are covered by IUVSTA divisions

**Webinars will provide an opportunity to follow lectures and get in touch** with experts in the fields

**Make webinars available to young researchers worldwide**

**Make webinars available to researchers that have limitation**

- on internet connection speed
- **to attend conferences, workshop, schools**

**Fulfill IUVSTA mandate** for the promotion of science and its diffusion



## THE PARTNERS AND THEIR ROLE

- IUVSTA EDUCOM** **Identification of the webinars** (subject, person): input from divisions, members and societies  
**FLOW:** input received -> info sent to the relevant division -> upon positive feedback info transferred to POLITO and AIV  
**Availability of webinars to National Societies** upon request (request needed for monitoring purposes)
- POLITECNICO** **Identification of the software** (open source)  
**Support to lecturers** prior and during the webinars  
**Recording and storage** of the webinars (High resolution and Low resolution)
- AIV** **Creation of the portal** with username access  
**Management of the portal:**
- users list
  - ticketing service
  - making registered webinars available for downloads (categorized)
  - notification of upcoming webinar
  - monitoring (downloads, ...)

## OTHER SUBJECTS INVOLVED

### NATIONAL SOCIETIES

#### Tasks

**diffusion of info** about new webinars to members  
**link to IUVSTA Webinar homepage on their site**

#### Advantage

**Availability of webinars** for schools and dissemination to members

### LECTURERS

#### Commitments:

- **prepare and deliver webinar** (at least 35-40 minutes)
- **answer tickets**
- **agree on time and date** with Politecnico and EDUCOM
- **use IUVSTA slide format** (at least for title slide)
- **consent to diffusion of the webinar offline**
- **fulfill technical requirements** (microphone, camera, flash prone browser)

#### Advantages

- **250 € voucher** to be used for IUVSTA conf, workshops, ... registration
- **voucher can be transferred**

## SOFTWARE CHARACTERISTICS AND TECHNICAL REQUIREMENTS

- Lecturer requirement:**
- microphone
  - camera
  - flash prone browser
  - high speed connection (> 10 Mb/s)
  - answering tickets
- On line users:**
- high speed connection
  - browser
  - earphone/speakers
- Offline users:**
- no requirement on speed connection
  - browser
  - earphone/speakers
- Features:**
- free
  - full functionalities (desktop sharing, pointer, ...)
  - chat available

## WEBINAR PORTAL FEATURES

**Homepage:** description + list of webinars + access to restricted area

**Restricted area:** a page for each subscriber containing:

- personal info
- link to stored webinars page(s)
- counter
- ticketing service

a page containing recorded webinars both in HD and LD.

Organized list of webinars with abstracts

## WEBINAR FLOW CHART

**EDUCOM:** identification of webinar title and lecturer

**EDUCOM to AIV and POLITO:** info on title and lecturer

**POLITO:** contact lecturer to define date and time

**POLITO to AIV and EDUCOM:** info on date and time of webinar

**POLITO:** generating links for lecturer and users

**POLITO to AIV and EDUCOM:** links details

**AIV:** distribution of links to users

**POLITO:** technical support during webinar and webinar registration

**POLITO to AIV:** link for downloading the registered webinar

**AIV:** post-editing of webinar if needed

**AIV:** adding (categorized) webinar to the portal, inform users on availability, abilitate ticketing

**EXAMPLE**

<http://bbb.polito.it/playback/presentation/0.9.0/playback.html?meetingId=72cab9cdda4eb0bf7329cd38672e78428d980c7a-1500548698177&t=38m40s>