

## the advanced e-learning Platform of the Photovoltaic European Research Infrastructure FP7-SOPHIA Project

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7FP-SOPHIA project (<http://www.sophia-ri.eu/>) coordinated by CEA-INES, is the European research infrastructure project which brings together 20 Organizations to strengthen and optimize their research capabilities in the field of PV technologies

### SOPHi@Webinar background:

Tight and frequent interaction among top-level experts is essential to realize the necessary collaborative network frame in SOPHIA project. On the other hand the huge quantity of research areas of common interest, joint to plenty of equipment and procedures currently utilized demand combinations of disciplines and top-class scientist are not available at a single research institute. To sustain the training programme by a more traditional in-person and on-site approach constitutes a threat given the constraints on financial budgets and time availability of the experts. To address these needs, SOPHIA has developed on-line solutions: SOPHi@webinar the SOPHIA e-learning platform

### Advantages of e-conferencing

Electronic conferencing requires no more than a set of interconnected computers with suitable software and hardware. Participants can connect with conferences and workshops at their convenience, regardless of their time zone and geographical location,

#### Time saving and reducing travel costs

This is a great advantage for those who, perhaps due to financial constraints or lack of time, would be unable to attend physical events due to their own full booked agenda. Physical meetings can take place only when strictly necessary

#### Fluid and improved Communication

Video conferences enhance the possibilities for all to interactively review a subject, allowing them to share efficiently ideas, documents, conclusions and concerns.

#### No limitation on event location

E-conferences can be realized by laptops, tablets and mobile phones and can be followed from everywhere

#### Focused Involvement

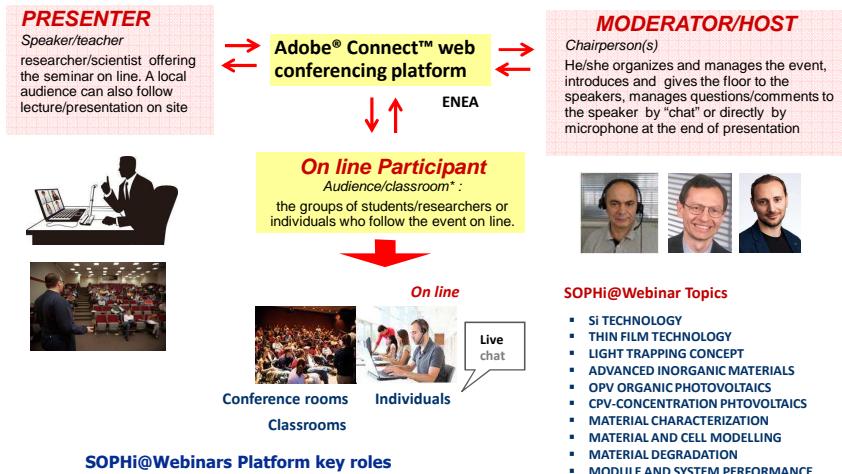
Participants can focus on the topic issues of direct interest, saving time from topics in which they are not involved or interested.

#### Storage and streaming of produced output

The acquired material (i.e. slides and video presentations) can be easily proposed by webcasting them even after the event

### SOPHi@Webinars: the short-hand on e-learning platform

<http://connect.portici.enea.it/sophiawebinar>

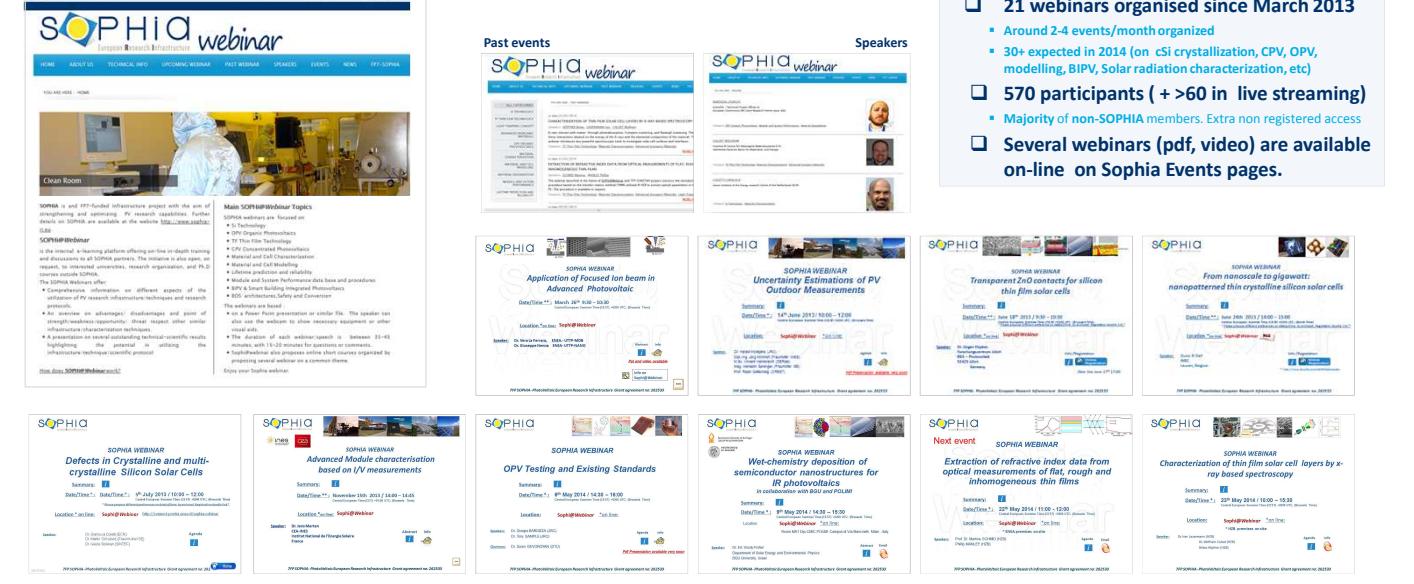


#### SOPHi@Webinars Platform key roles

### SOPHi@Webinar portal <http://uttp.enea.it/sophiawebinar>

#### SOPHi@Webinars Highlights

- 21 webinars organised since March 2013
  - Around 2-4 events/month organized
  - 30+ expected in 2014 (on cSi crystallization, CPV, OPV, modelling, BIPV, Solar radiation characterization, etc)
- 570 participants (+ >60 in live streaming)
  - Majority of non-SOPHIA members. Extra non registered access
- Several webinars (pdf, video) are available on-line on Sophia Events pages.



**Past events**

- SOPHi@WEBINAR Application of focused ion beam in Advanced Photovoltaic
- SOPHi@WEBINAR Uncertainty Estimations of PV Outdoor Measurements
- SOPHi@WEBINAR Transparent Zn contacts for silicon thin film solar cells
- SOPHi@WEBINAR From nanoscale to gigawatt: nanopatterned thin crystalline silicon solar cells

**Speakers**

- Dr. Giuseppe Cipoletta (Istituto Superiore di Sanita')
- Dr. Giorgio Mencuccini (Istituto Superiore di Sanita')
- Dr. Maurizio Steffé (Istituto Superiore di Sanita')
- Dr. Anna Vita (Istituto Superiore di Sanita')

**Upcoming events**

- SOPHi@WEBINAR Extraction of refractive index data from optical measurements of flat, rough and inhomogeneous thin films
- SOPHi@WEBINAR Characterization of thin film solar cell layers by x-ray based spectroscopy

### Acknowledgements

We would like to thank all SOPHi@Webinar speakers for their support and contribution. Their excellent presentations have helped to make this initiative possible and successful and we hope that their collaboration will also continue for the future. We also thank all webinar participants that have reacted with enthusiasm and interest to our initiative. We acknowledge the technical staff of ENEA has consistently supported both the development and the use of applications and David Casaburi for the realization of the very useful and well structured website. Finally, we would like to thank the European Community that with the funding of 7FP-SOPHIA grant agreement n° 262533 has supported the SOPHIA Project and SOPHi@Webinar initiative.



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