First on-line edition of the International School on Synchrotron Radiation “Gilberto Vlaic”: Fundamentals, Methods and Applications
Trieste (Italy), 13-17 September 2021

FIRST ANNOUNCEMENT

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They have decided to organize anyway an on-line shorter version of the School in September 2021, mainly dedicated to PhD students interested in Synchrotron Radiation and its applications.

The School will be held from September the 13th to September the 17th.

Aims of the School

The School aims at introducing graduate students and young scientists at the early stage of their career to the unique research opportunities offered at synchrotron and more recently at free electron laser (FEL) facilities. The school will provide an overview of the production and characteristics of synchrotron light, its interaction with the matter and will illustrate the main experimental methods used at synchrotron facilities starting from basics. The lectures will be given by scientists who are experts in the specific fields and will include:

- Production and properties of Synchrotron and FEL Radiation;
- Basics of the photon-matter interactions;
- X-ray Absorption Spectroscopy (EXAFS and XANES);
- Photoelectron spectroscopy;
- X-ray Diffraction methods;
- X-ray small angle scattering (SAXS);
- X-ray Microscopy and imaging.
- IR spectroscopy and microscopy.
Dedicated lectures will illustrate the combined use of several experimental techniques to study specific topics.

Afternoon sessions will be dedicated to the data analysis on X-ray Absorption, Powder Diffraction and Core Level Photoemission Spectroscopy experiments.

The programme foresees also a virtual visit of the ELETTRA and FERMI facilities and will give the opportunity to follow an experiment on one beamline of ELETTRA.

The lectures will be at the level of Phd courses. The School will provide students with a certificate reporting details on the number of hours and the kind of activities performed.

**Applications**

Persons interested to attend the school should fill and submit the application form at the web site: [https://indico.elettra.eu/e/sils2021](https://indico.elettra.eu/e/sils2021) by June 15th, 2021 and upload a short one-page curriculum. Participants will be limited to 100 and will be selected on the basis on their curriculum; priority will be given to Ph.D. students and to young researchers, paying attention to gender balance.

The registration fee of 100 € includes: 1. active attendance to the lectures; 2. data analysis; 3. experimental sections; 3. virtual visit of the facilities. Accepted students will have the possibility to interact with lecturers and to perform data analysis by themselves; they will receive a pdf copy of the book “Synchrotron Radiation: Basics, Methods and Applications” (Springer - ISBN 978-3-642-55315-8). In case the number of acceptable applications will overcome the foreseen number of 100, auditors will be accepted; auditors will pay 20 € to attend to lectures in a passive way, i.e. without possibility to interact with lecturers.

Accepted students living in countries with different time zone will have access also to a recorded version of the lectures.

Details on the payment procedures will be provided later on.

**IUCr support**

We have applied for support from the International Union of Crystallography (IUCr). If granted, the registration fee for a number of students from developing countries will be reduced to 50 €.

News and additional information on how to apply will be found on the web site of the school.

**Deadlines**

15/6/2021: Submission of application forms.
15/7/2021: Notification of acceptance.
31/7/2021: Payment of registration fees.

**Contacts**

For additional information, please contact the school secretariat by e-mail (elena.cantori@elettra.eu)