



Società
Italiana
Luce di
Sincrotrone

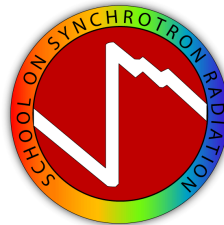


Elettra Sincrotrone Trieste

“Gilberto Vlaic” XVI School on Synchrotron Radiation: Fundamentals, Methods and Applications

Muggia (Italy), 19-30 September 2022

FIRST ANNOUNCEMENT



DIRECTORS

Settimio MOBILIO

Department of Science University Roma TRE
Viale Marconi 446
00046 Roma
Italy

E-Mail: settimio.mobilio@uniroma3.it

and

Giorgio PAOLUCCI

ELETTRA-Sincrotrone Trieste S.C.p.A.
Strada Statale 14 - km 163,5
34149 Basovizza, Trieste
Italy

E-Mail: giorgio.paolucci@elettra.eu

Secretariat:

Elena Cantori
Elettra-Sincrotrone Trieste ScpA
SS 14 Km 163,5
34149 Basovizza (Trieste)
Tel. +39-040-3758319
e-mail: elena.cantori@elettra.eu



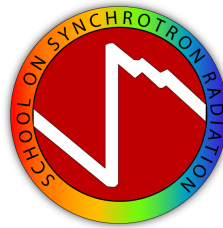
Società
Italiana
Luce di
Sincrotrone



Elettra Sincrotrone Trieste

XVI School on Synchrotron Radiation: Fundamentals, Methods and Applications

Muggia (Italy), 19 – 30 September 2022



After the successful first on-line edition of 2021, the Italian Synchrotron Radiation Society (SILS), www.synchrotron-radiation.it and Elettra – Sincrotrone Trieste (www.elettra.eu) are proud to announce the 16th edition of the School

“Synchrotron Radiation: Fundamentals, Methods and Applications”

The 16th edition of the school will be held in presence at Muggia (Italy) from the 19th to the 30th of September, 2022. Muggia is a lovely old town on the gulf of Trieste not far from Elettra-Sincrotrone Trieste, a multidisciplinary international research center specialized in synchrotron and free-electron laser radiation and their applications in materials and life sciences.

The on-line participation to the school is also foreseen.

The school is dedicated to the memory of prof. Gilberto Vlaic, who founded in 1990 the first SILS school held in Sardinia that was followed by biannual editions till 2019. Prof. Vlaic was one of the pioneers of the X-ray absorption spectroscopy and contributed significantly to its development and its multiple applications.

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 recent 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 the experimental methods based on these interactions that have proven to be indispensable tools with applications all domains of basic and applied research. The school lectures will be given by scientists who are experts in the relevant fields. They will include.

- Production and properties of Synchrotron and FEL Radiation;
- Basics of the photon-matter interactions;
- Photon transport and beamline instrumentation;
- X-ray Absorption Spectroscopy (EXAFS and XANES);
- X-ray Diffraction;

- X-ray scattering, SAXS, WAXS;
- Inelastic and inelastic X-ray scattering;
- X-ray Microscopy and imaging;
- Photoelectron spectroscopy, microscopy and imaging;
- THz and IR spectroscopy and microscopy;
- Dedicated lectures illustrating applications and recent research achievements in the fields of materials, nanoscience, magnetism, catalysis, earth science, environmental science, cultural heritage, biology and medicine.

Data analysis sessions are foreseen for X-ray absorption, X-ray diffraction and photoelectron spectroscopy.

A full day will be dedicated to a visit of ELETTRA and FERMI facilities. The visit will be virtual for on-line participants.

Take notes that if restrictions due to pandemic do not make possible the visit in presence, it will be virtual also for participants in presence.

Participants are encouraged to present a poster on their research activity with emphasis on the need to use the tools at synchrotron and FEL facilities that should foster exchange of ideas and collaborations.

The detailed programme of the school and any other useful information is available at school WEB site <https://www.elettra.eu/Conferences/2022/SILS/>

The programme of the previous editions of the SILS schools and other relevant material can be found at <https://www.lucedisincrotrone.it>

Applications

Persons interested to attend the school should fill and submit the application form through the school WEB site by June 15th 2022 inserting a short curriculum (max. 2000 characters, including spaces) and indicating the preference for participation (in presence and/or on-line).

Participants in presence will be limited to 60 and will be selected on the basis on their curriculum; priority will be given to Ph.D. students and to young researchers.

On-line participants will be limited to 60 and will be selected with the same criteria.

Within June the 30th, applicants are going to be informed on their acceptance and on the mode of their participation (in presence or on-line).

No change in the mode of participation will be possible.

The registration fee is 250 €; it includes the attendance to the lectures, to the practical sessions, a e-copy of the book “Synchrotron Radiation: Basics, Methods and Applications” published by Springer in 2015 (ISBN: 978-3-642-55315-8) and the SILS “Young” membership for the current year.

Details on the payment procedures will be communicated to the accepted applicants.

IUCr Fellowships

School applied for funds of the International Union of Crystallography to cover travel and subsistence costs for young scientists from developing countries. In the case

funds are granted, they are going to be used according to the INTERNATIONAL UNION OF CRYSTALLOGRAPHY Scientific Freedom Policy Statement, here reported:

"The Organizing Committee of the SILS School shall observe the basic policy of non-discrimination and affirms the right and freedom of scientists to associate in international scientific activity without regard to such factors as ethnic origin, religion, citizenship, language, political stance, gender, sex or age, in accordance with the Statutes of the International Council for Science."

Additional information will be available on the school web site as soon as possible.

Deadlines

24/6/2022: Submission of application forms.

30/6/2022: Notification of acceptance.

25/7/2022: Payment of registration fees.

31/7/2022: Confirmation of accommodation

Location

Hotel San Rocco - Strada per Lazzaretto 2 - 34015 Muggia (Ts)

phone: +39 040 330100 - FAX: +39 040 9279203

Email: hotel@portosanrocco.it; web site: <http://www.hotelportosanrocco.it/>

Accommodation

Accommodation is strongly recommended at Hotel San Rocco.

Room-rates including breakfast agreed for the School participants are:

€ 40/night/person in double room

€ 70/night/person in single room

Participants are expected to cover accommodation expenses themselves.

Hotel accommodation at the Hotel San Rocco should be requested via the secretariat; students accepted in presence must confirm the accommodation by 31/7/2022.

Contacts

For additional information, please contact the school secretariat by e-mail (sils2022@elettra.eu)

Weather

In September the weather in Muggia and Trieste is generally pleasant, with a mean temperature between 15 °C and 23 °C.