

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



Monday, September 21, 2026 - Thursday, October 1, 2026

Muggia (Italy)

Scientific Program

PROGRAM

Monday September the 21th

9.00 – 9.30 Opening session

9.30 – 11.00 A. Balerna Introduction to synchrotron radiation

11.00 – 11.30 Coffee Break

11.30 – 13.00 G. Margaritondo Characteristics and properties of synchrotron radiation

13.00 – 15.00 Lunch time

15.00 – 16.00 G. Margaritondo Characteristics and properties of synchrotron radiation

16.00 – 16.30 Coffee Break

16.30 – 18.00 S. Pascarelli X-ray Free Electron Lasers

19.00 – 21.00 Welcome party

Tuesday September the 22th

9.00 – 10.30 G. Paolucci Synchrotron radiation facilities

10.30 – 11.00 Coffee Break

11.00 – 12.30 S. Pascarelli Introduction to X-ray methods

12.30 - 14.30 Lunch time

14.30 – 16.00 F. Boscherini Interaction between matter and radiation

16.00 – 16.30 Coffee Break

16.30 – 18.00 S. Pascarelli Fundamentals of X-ray absorption spectroscopy

Wednesday September the 23th

9.00 – 11.00 A. Di Cicco X-ray absorption spectroscopy: experimental aspect and data analysis

11.00 – 11.30 Coffee Break

11.30 – 13.00 M. Benfatto and C. Meneghini XANES spectroscopy

13.00 – 15.00 Lunch time

15.00 – 16.30 P. Macchi X-ray diffraction

16.30 – 17.00 Break

17.00 – 18.30 P. Macchi X-ray diffraction

Thursday September the 24th

9.00 – 10.30 A. Perucchi and L. Vaccari Infrared spectroscopies with synchrotron radiation and free electron lasers

10.30 – 11.00 Coffee Break

11.00 – 12.30 H. W. Amenitsch Small angle X-ray scattering

12.30 – 14.30 Lunch time

14.30 – 16.00 J.R. Plaisier Powder Diffraction with Synchrotron Radiation

16.00 – 16.30 Break

16.30 – 18.00 Poster presentation by participants

19.00 – 21.00 Poster session & pizza party

Friday September the 25th

9.00 – 10.30 C. Mariani Photoelectron spectroscopy

10.30 – 11.00 Coffee Break

11.00 – 12.30 C. Mariani Photoelectron spectroscopy

12.30 - 14.30 Lunch time

14.30 – 16.00 A. Baraldi High resolution and time resolved core level photoelectron spectroscopy

16.00 – 16.30 Coffee Break

16.30 – 18.00 I. Vobornik Angular and spin resolved photoemission

Saturday September the 26th

9.00 – 12.30 M. Merlini Analysis of diffraction data

12.30 – 14.30 Lunch time

14.30 – 18.00 I. Carlomagno Analysis of X-ray absorption and fluorescence spectroscopy data

Monday September the 28th

9.00 – 10.30 A. Gianoncelli Introduction to X-ray imaging

10.30 – 11.00 Coffee Break

11.00 – 12.30 A. Gianoncelli X-ray microscopy

12.30 – 14.30 Lunch time

14.30 – 16.00 P. Thibault Advanced imaging methodologies (coherent diffraction imaging and X-ray tomography)

16.00 – 16.30 Coffee break

16.30 – 18.00 L. Giannessi Plasma acceleration based new machines

Tuesday September the 29th

9.00 – 18.00 Visit and Practicals at FERMI facility

Wednesday September the 30th

9.00 – 10.30 C. Masciovecchio Research activities with free electron laser

10.30 – 11.00 Coffee Break

11.00 – 12.30 F. Offi Condensed matter studies with polarized X-ray

12.30 – 14.30 Lunch time

14.30 – 16.00 A. Chaves Structural biology: Biocrystallography and an appetizer for cryo-EM

16.00 – 16.30 Break

16.30 – 18.00 G. Tromba Biomedical imaging with synchrotron radiation

Thursday October the 1st

9.00 – 10.30 P. Wernet Seeing chemical interactions and dynamics with time-resolved x-ray spectroscopy

10.30 – 11.00 Coffee Break

11.00 – 12.30 M. Moretti Inelastic X-ray scattering

12.30 – 14.30 Lunch time

14.30 – 16.00 C. Giannini Synchrotron radiation and material science

16.00 – 16.30 Break

16.30 – 18.00 G. Robertson Synchrotron radiation-based X-ray techniques & cultural heritage objects: an integrated multi-material, multi-technique and multi-scale approach to study their composition and evolution

18.00 – 21.00 Concluding remarks and farewell party