



PIER GIORGIO MERLI

School of Transmission Electron Microscopy
in Materials Science

2027

DATE January 18-29, 2027

VENUE **Institute for the Study of Nanostructured Materials**
CNR Research Area
Via Gobetti 101 40129, Bologna, Italy

The Italian Society for Microscopical Sciences (SISM) and the National Research Council (CNR) are pleased to announce the 9th edition of the School of Transmission Electron Microscopy in Materials Science.

Maintaining the legacy of Pier Giorgio Merli and the approach of the previous editions, the School will introduce students and researchers to the imaging and spectroscopy techniques related to Transmission Electron Microscopy (TEM).

The School will take full advantage of the modern TEM facility of the *Institute for the Study of Nanostructured Materials* and the *Entrance Research Infrastructure*:

- 300-keV double-corrected TEM-STEM with EDS and EELS spectrometers
- 200-keV TEM-STEM with EDS, *in-situ*, tomography
- 200-keV TEM-STEM with EDS
- Dual-Beam FIB-SEM for TEM sample preparation



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Lectures will cover the working principles of TEM instrument and detectors, the concepts of electron diffraction, coherent and incoherent imaging, as well as X-ray and Electron Energy-Loss spectroscopy, *in-situ* experimentation, image simulation and analysis. Practical sessions on SAED, CBED, HREM, HAADF-STEM, EELS, EDS will provide an immersive demonstration of TEM operation.

Participation Fee:

Members of SISM / EMS	1300 €
Non-members of SISM / EMS	1600 €
Early-career Researchers / Students	1100 €

22% VAT non included

The reduction of the fee is recognized to active SISM members, and also to members of any national society associated to European Microscopy Society (EMS). SISM also supports participation from early-career researchers and students with a reduced fee and offers a free one-year membership to the Society.

Additional INFO:

[School Website](#)

[SISM website](#)

CONTACTS:

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