



# IMEKO JOINT CONFERENCE



**TC8 - TC11 - TC24**

TC8 Traceability in Metrology

TC11 Measurement in Testing, Inspection and Certification

TC24 Chemical Measurements

**TORINO, ITALY / SEPTEMBER 14-17, 2025**

## SPECIAL SESSION

### Chemico-physical measurements in Heritage Science

#### DESCRIPTION

This special session will explore the latest advancements in chemical and physical measurements in cultural heritage research. Accurate and trustable measurement techniques enable scientists and conservators to assess material composition, construction techniques, dimensional information, degradation processes, and environmental influences on historical artifacts. The session will include methodological innovations and case studies encompassing a wide range of analytical techniques, from laboratory measurements to in-situ non-invasive testing.

A key aspect of this discussion will be the establishment of standardized protocols to ensure measurement accuracy, repeatability, and traceability in heritage science. Contributions will address the challenges of applying quantitative analysis to heterogeneous and aged materials and highlight the role of interdisciplinary collaborations in enhancing data reliability.

By fostering dialogue between metrologists, chemists, physicists, and heritage scientists, this session aims to advance measurement methodologies and support the long-term preservation of cultural heritage through rigorous scientific approaches.

#### WEBSITE

<https://imekotorino2025.org/special-session-5>

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