

IMEKO TC8, TC11 and TC24 Conference



Sunday 14 September 2025 - Wednesday 17 September 2025

Torino (Italy)

Scientific Programme

TC8 - Traceability in Metrology

Digital twins

Energy-related topics

Traceability in AI, self learning systems and big data

Metrological traceability in chemistry (primary reference methods and primary standards)

Reference materials and certified reference materials

International cooperation and SI traceability in chemistry, pharmacy and medicine

Standardization

Digitalization in Traceability – new tools, new opportunities, new challenges

Digital transformation in TIC and Digital Twins

TC11 - Measurement in Testing, Inspection and Certification

Management systems and Quality in the TIC sector

Regulatory framework for quality, safety and security of products and services (agrifood, environment, health, cybersecurity, communication, construction, IoT, AI, among others)

Innovation and validation of methods in testing, calibration, inspection and certification

Sampling activities related to measurements in the TIC Sector

Metrological traceability, measurement uncertainty and conformity assessment in TIC Sector

Certification of reference materials and their use in laboratories

Certification of products, processes, management systems and persons

Digital transformation in testing, inspection and certification

Measurements as an enabler of economic development

Quality management and conformity assessment in TIC Sector

SMART Metrology and TIC: Demands and new opportunities in the incorporation of Key Enabling Technologies (KET's)

Other TIC issues

TC24 - Chemical Measurements

Traceability and fundamental chemical measurements

Sampling techniques and related uncertainty

Separation techniques for high molecular weight molecules

Chemical and biochemical sensors

Gas-phase chemical measurements

Gas analysis for climate change and energy transition

Decision rules and statement of conformity for trade

Validation, uncertainty and quality control in chemical measurements

Process Analytical Technology

Certified reference materials and its applications in life science and biosynthesis

Chemical measurements for environment

Chemical measurements for food and agriculture

Chemical measurements for health and biomedical applications

Chemical measurement for energy

Digital calibration in chemical measurements

Other topics in Chemical Measurements

Special Sessions

SPECIAL SESSION: Young metrologists from Ukraine

SPECIAL SESSION: Gas Analysis for Sustainable Energy and Climate Change Mitigation

SPECIAL SESSION: Innovative Networks of Testing and Calibration Laboratories

SPECIAL SESSION: Traceability for Laboratory Medicine

SPECIAL SESSION: Metrological Traceability, Method Validation, and Measurement Uncertainty in Analytical Sciences. Guidelines and Experiences from the Eurachem Community.

SPECIAL SESSION: Chemico-physical measurements in Heritage Science