

# IMEKO TC8, TC11 and TC24 Conference



**Wednesday 26 August 2026 - Saturday 29 August 2026**

## 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**

**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**

**Gas Analysis for Sustainable Energy and Climate Change Mitigation**

**Measurements for cultural heritage**

**Traceability for Laboratory Medicine**

**Chemical measurements for emerging contaminants**

**Nanotechnology**

**AI-driven chemical measurements**

**Metrology for in-situ measurements**

**Chemical measurements for CCUS value chain**

## **Other topics in Chemical Measurements**