

SHORT PROGRAMME

INTERNATIONAL METROLOGY CONGRESS

CIM2027

NEW HORIZONS IN METROLOGY

15 – 18 MARCH · LYON · FRANCE

ORGANISED BY



www.cim-metrology.org

HOSTED AT

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EDITO



Frédéric Barbaresco

*THALES · France
CIM2027 co-chair*

In an industrial world in which performance, technological sovereignty and risk management have become decisive imperatives, metrology should be regarded as an infrastructure underpinning innovation, reliability and trust.

The ability to measure with ever greater accuracy, speed and traceability has become a strategic industrial concern. Metrology therefore plays a pivotal role in enabling emerging technologies, providing the means to characterize their performance and master their industrialization.

Quantum technologies provide an illustration of this evolution. The characterization of quantum technologies is opening a new frontier for metrology to quantify the physical quality of devices, but also to assess their effective performance in addressing industrial applications.

Artificial intelligence is also profoundly transforming metrological practice. It offers unprecedented capabilities for exploiting vast volumes of data, enhancing anomaly detection, developing more sophisticated measurement models.

The CIM conference will therefore provide a privileged forum for dialogue between science and industry, helping to shape the measurement methodologies that will enable tomorrow's technologies to become the industrial solutions of today.



Philippe Richard

*METAS · Switzerland
CIM2027 co-chair*

In an increasingly data-driven world, having confidence in measurements is more important than ever. Whether it is supporting industrial innovation, scientific discovery, healthcare, energy systems or digital technologies, decisions ultimately depend on the quality and reliability of the results of measurements.

Two concepts lie at the heart of this: uncertainty of measurement and metrological traceability. Uncertainty in measurements provides a quantitative assessment of the quality of a result, while traceability establishes a direct link to recognized references through an unbroken chain of comparisons. Together, these concepts transform measurements into trusted information that can be shared and compared worldwide.

This confidence also hinges on international cooperation. By using SI Units, facilitating comparisons and promoting mutual recognition, the global metrology community ensures that measurements performed worldwide remain reliable and comparable.

As technologies become increasingly complex and interconnected, the importance of these foundations grows.

We look forward to welcoming you to Lyon to share knowledge and explore the future of measurement.

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The CFM, an association founded in 2002 with the support of the Ministry in charge of Industry, the LNE, the CETIAT, and STELLANTIS.

MONDAY 15

09.00 am	10.30	11.00	12.30 pm	01.30	02.00	03.30	04.00	05.30
WORKSHOP MetriQs Metrology for Quantum Technologies		WORKSHOP MetriQs Metrology for Quantum Technologies		WELCOME	OPENING SESSION	S1 Traceable thermometry: from fixed points to AI S2 Leveraging the potential of DCC ROUND TABLE Metrology for evidence-based Policy Making	S3 Advanced materials metrology S4 Advances in low- and micro-flow metrology S5 From data to decisions: trusted AI for metrology	WELCOME APÉRITIF CELEBRATING 40 YEARS OF EURAMET

TUESDAY 16

09.00 am	10.30	11.00	12.30 pm	01.30	03.00	03.30	05.00
WELCOME	S6 DCC, an endless adoption phase? S7 Quantum Metrology: from the lab to the real world ROUND TABLE How can metrology meet the needs of the "New Defence"?	PLENARY SESSION NEW HORIZONS IN METROLOGY		ROUND TABLE Metrology for Quantum Computing S8 New techniques for traceable temperature measurements S9 Advancing the energy transition through gas flow metrology	POSTERS P1 Quantum technologies Data Management AI Flow Thermometry Quality Electricity Industrial innovation	GALA EVENT <i>Silk & Velvet</i> LE GRAND RÉFECTOIRE	

WEDNESDAY 17

09.00 am	10.30	11.00	12.30 pm	01.30	03.00	03.30	05.00
WELCOME	ROUND TABLE Metrology meets AI: confidence in the Age of Prediction S10 Novel impedance metrology? S11 Quality and Accreditation in industrial metrology	POSTERS P2 Mechanics Dimensional Robotisation Automatisation Biology / Chemistry Connectivity / Sensors Uncertainty		S12 Next-Gen gas metrology for climate and energy S13 Frontiers in traceability and measurement uncertainty ROUND TABLE Is ISO 10012:2026 a new deal for Industrial Metrology?	S14 Metrology and Industry: partners for Innovation S15 Sensors / IoT S16 Digital metrology ecosystem: building trust	SIDE EVENT	

THURSDAY 18

09.00 am	10.30	11.00	12.30 pm
WELCOME	S17 From electrical references to calibration S18 Dimensional metrology: nano, macro and software SHORT COURSE Food Metrology: from Farm to Fork	S19 Challenges of robotisation and automation in metrology S20 Metrology for health innovation S21 Best for last: solar UV, gas flow, hydrogen, humidity	CLOSING & AWARDS

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Updated list as per October 8th

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"Travel & Stay" section

FEES

Excluding 10% VAT

Prices & Registration: www.cim-metrology.org/en/fees/price-list

		BEST FEE		
		Early Bird Until 20 Nov. 2026	Regular fee Until 17 Feb. 2027	Late fee Until the congress
● Speakers	All days	569€	650€	750€
	1 day	569€	650€	750€
● Attendees	2 days	735€	845€	975€
	4 days	895€	1025€	1185€
● Academic pass Student, PhD or staff member at a university	2 days	300€	350€	400€
	4 days	400€	450€	500€

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- Gala Event (limited seats)
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