

4th-6th November 2025, INTI, Buenos Aires, Argentina

Schedule

4th November
Tuesday

	#	Detail	Speaker	Institute	Country
12:00 - 14:00Registration / Lunch					
14:00 - 14:20Introduction					
SESSION 1: INTERFEROMETRY AND CALIBRATION OF LENGTH STANDARDS, PART 1 Session Chair: Andrew Lewis, NPL					
14:20 - 14:50	#15_2025	First high-precision characterization of the complete topography of a 30 mm silicon sphere	Eva Kuhn	PTB	Germany
14:50 - 15:20	#38_2025	Determination of the Line Center Measurand Ambiguity	Brian Eves	NRC	Canada
15:20 - 15:50	#05_2025	The integration of a UV-Microscope in the Nanometer Comparator at PTB	Rainer Köning	PTB	Germany
16:00 - 19:00Reception / Lab visits					

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5th November
Wednesday

	#	Detail	Speaker	Institute	Country
SESSION 2: INTERFEROMETRY AND CALIBRATION OF LENGTH STANDARDS, PART 2 Session Chair: Rainer Koenig, PTB					
09:00 - 09:30	#16_2025	The influence of diffraction in length-measuring imaging interferometers	René Schödel	PTB	Germany
09:30 - 10:00	#20_2025	Interferometric Diameter Topography Calibration on Test Spheres	Tillman Neupert-Wentz	PTB	Germany
10:00 - 10:30	#37_2025	Updated guidance on acceptance criteria for multimeasurand comparisons	Ian Leroux	NRC	Canada
10:30 - 11:00	Coffee Break				
SESSION 3: DISPLACEMENT AND POSITIONING Session Chair: Sten Bergstrand, RISE					
11:00 - 11:30	#18_2025	High Accuracy Interferometric Calibration System for 1-D Transducers	Aleksi Mattila	VTT MIKES	Finland
11:30 - 12:00	#27_2025	A Dual-Traceability-Chain Micro-Nano Displacement Intelligent Metrology System Based on a Deep Reinforcement Learning Adaptive Algorithm	Yushu Shi	NIM	China
12:00 - 12:30	#29_2025	A traceable method for the validation of kinematic positioning	Carl-Henrik Hanquist	RISE	Sweden
12:30 - 13:30	Lunch				
SESSION 4: LONG-RANGE LENGTH MEASUREMENT Session Chair: Antti Lassila, VTT MIKES					
13:30 - 14:00	#03_2025	Mitigation of the atmospheric effects for uncertainties less than 1 mm over distances of up to 8 km using a two-wavelength EDM	Joffray Guillory	LNE-Cnam	France
14:00 - 14:30	#13_2025	A field capable multi-wavelength interferometer for absolute long distance measurements over hundreds of metres	Florian Pollinger	PTB	Germany
14:30 - 15:00	#33_2025	Group and phase delays in observations with the VLBI Global Observing System	Sten Bergstrand	RISE	Sweden
15:00 - 15:30	#40_2025	0.1 K thermodynamic air temperature measurements as a contribution to optical geodetic measurements	Marco Pisani	INRIM	Italy
15:30 - 17:00	Coffee Break / Poster Session				
20:00	Conference Dinner				

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6th November
Thursday

	#	Detail	Speaker	Institute	Country
SESSION 5: SURFACE, FORM AND ANGLE METROLOGY Session Chair: Akiko Hirai, NMIJ					
09:00 - 09:30	#01_2025	Metrological characterisation of Machine Vision Systems for the analysis of surfaces from advanced manufacturing	Luigi Ribotta	INRiM	Italy
09:30 - 10:00	#11_2025	Uncertainty modeling and sensor enhanced architecture for a rotary reference table in angular metrology	Rim Bennoune	LNE	France
10:00 - 10:30	#34_2025	Angles: n-dimensional Relations of Rays, Segments, Coordinates, and Arcs. --a proposal for a consistent and scalable angle unit system in the SI	Sten Bergstrand	RISE	Sweden
10:30 - 11:00	Coffee Break				
11:00 - 11:30	#35_2025	A New Technology for Static and Dynamic Calibration of Angle Errors in Multi-axis Rotary Tables	Zi Xue	NIM	China
SESSION 6: COORDINATE METROLOGY Chair: Alessandro Balsamo, INRiM					
11:30 - 12:00	#28_2025	Latest developments in computed tomography at METAS	Alain Küng	METAS	Switzerland
12:00 - 14:00	Closing / Lunch / Discussions				

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Posters

#	Detail	Speaker	Institute	Country
#02_2025	High-performance interferometric metrology for 6-d.o.f. positioning robot	Camille Basa	LNE-Cnam	France
#04_2025	Traceable Optical Metrology Software for Geometric Conformity Assessment of Complex 3D Parts	Louis-Ferdinand Lafon	LNE	France
#06_2025	Characterizing the main uncertainty sources of a multimeter based temperature measurement system for length metrology applications	Rainer Köning	PTB	Germany
#09_2025	New optical force balance for nanoforces measurements	Colin Dartevelle	LNE-Cnam	France
#10_2025	Metrological set-up for calibration of displacement sensors up to 150 mm	Luka Čas	UM	Slovenia
#12_2025	Automated evaluation of a key comparison on gauge blocks applying the Digital Calibration Certificate (DCC) and Digital Metrological Expert (DME)	Guido Bartl	PTB	Germany
#17_2025	Interferometric positioning for accurate larger range scanning probe microscopy	Virpi Korpelainen	VTT MIKES	Finland
#21_2025	Traceability for industrial 3D digitalisation by advanced scanning systems – an introduction to the European ‘ScanCloudT’ project	Florian Pollinger	PTB	Germany
#23_2025	Interferometric methods for groove depth calibration	Liliana Álvarez	INTI	Argentina
#24_2025	A multi-camera photogrammetric system for traceable tracking the position the pose of the robot arm and aircraft landing performance	Mariusz Wiśniewski	GUM	Poland
#25_2025	Evaluation for linking the bilateral SIM.L-K1:2007.1 to the CCL-K1:2011	Liliana Álvarez	INTI	Argentina
#26_2025	Resolution Target and Ball bars for Verification of Optical Coordinate Measurement Systems	Björn Hemming	VTT MIKES	Finland
#30_2025	CEM’s route of traceability for surface metrology, covering six orders of magnitude in Z coordinate with subnanometric resolution	Laura Carcedo Cerezo	CEM	Spain
#31_2025	Study of the influence of noise on the calibration of measurement standards for surface texture measurements using the profile method	Laura Carcedo Cerezo	CEM	Spain
#32_2025	Application of ISO surface texture profile method standards in the calibration of material measures and case studies	Laura Carcedo Cerezo	CEM	Spain