

**Agenda of Sessions**

updated: October 21, 2014

28th Oct. (Tue)	12:00 - 14:00	<i>Registration /Lunch</i>				
	14:00 - 14:20	Introduction				
	<b>Session 1: Interferometry and calibration of length standards, Part 1</b>					
	Session Chair: Rudolf Thalmann, METAS					
	14:20 - 14:45	#05_2014	Multi-target multi-sensor 6DOF self-traceable dynamic metrology system for large volumes based on frequency-scanning interferometry	Andrew Lewis <i>held by Michael Campbell</i>	NPL	UK
	15:10 - 15:35	#21_2014	Towards robust frequency sweeping absolut distance interferometry	Günther Prellinger <i>held by Florian Pollinger</i>	PTB	Germany
	14:45 - 15:10	#31_2014	Air index compensated interferometer as novel primary standard for geodetic measurements	Karl Meiners-Hagen	PTB	Germany
	15:35 - 16:00	#19_2014	Cavity enhanced electro optic comb source for heterodyne Multi Wavelength Interferometry	Florian Pollinger	PTB	Germany
	16:00 - 16:20	<i>Coffee Break</i>				
	<b>Session 1: Interferometry and calibration of length standards, Part 2</b>					
	Session Chair: Andrew Lewis, NPL					
	16:45 - 17:10	#06_2014	MIKES' primary phase stepping gauge block interferometer	Antti Lassila	MIKES	Finland
	17:10 - 17:35	#54_2014	Utilisation of coincidence criteria in absolute length measurements by optical interferometry in vacuum and air	René Schödel	PTB	Germany
17:35 - 18:00	#63_2014	White light interferometers with polarizing optics for length measurements with an applicable zero point detection	Vinzenz Ullmann	TU Ilmenau	Germany	
18:00 - 21:00	<i>Reception Lab visits</i>					

**Agenda of Sessions**

updated: October 21, 2014

<b>29th Oct. (Wed)</b>	<b>Session 2: Coordinate metrology, Part 1</b> Session Chair: Felix Meli, METAS				
	09:00 - 09:25	#01_2014	Geometrical characterization of an hexapod-shaped multicomponent force transducer	Alessandro Balsamo	INRIM Italy
	09:25 - 09:50	#03_2014	Study of diamond coated probe tip wear when scanning on different materials	Alain Küng	METAS Switzerland
	09:50 - 10:15	#26_2014	Calibrations of length standards via CMM: Equivalence of 1-dimensional measurements	Jack Stone	NIST USA
	10:15 - 10:40	#45_2014	Quantifying phase change correction and wringing layers for gauge blocks using a high precision $\mu$ CMM	Michael Matus	BEV Austria
	10:40 - 11:45	<i>Coffee Break / Poster Session I</i>			
	<b>Session 2: Coordinate metrology, Part 2</b> Session Chair: Toshiyuki Takatsuji				
	11:45 - 12:10	#51_2014	New curvature-based methods for coarse registration in dimensional metrology	Rindra Rantoso	LCM France
	12:10 - 12:35	#39_2014	Determination of angle between two planes in coordinate metrology	Maryna Galovska <i>held by Michael Krystek</i>	TU Braunsch. Germany
	12:35 - 13:00	#17_2014	Geometric errors identification on 5-axis machine-tool using both novel hole-bar standard design and laser tracer interferometer system	Fabien Viprey	LNE France
	13:00 - 14:45	<i>Lunch / Poster Session II</i>			
	<b>Session 3: Calibration of length standards, form and angle metrology, Part 1</b> Session Chair: José-Antonio Salgado, LNE				
	14:45 : 15:10	#04_2014	Development of a feature adapted measurement evaluation strategy	Andreas Loderer	FAU Germany
	15:10 - 15:35	#53_2014	Comparison of asphere measurements by tactile and optical metrological instruments	Rob Bergmans	VSL Netherlands
	15:35 - 16:00	#56_2014	Which diameter matters?	Rudolf Thalman	METAS Switzerland
	16:00 - 16:15	<i>Coffee Break</i>			
	<b>Session 3: Calibration of length standards, form and angle metrology, Part 2</b> Session Chair: Oelof Kruger, NMISA				
	16:15 - 16:40	#59_2014	Recent developments in angle metrology	Tanfer Yandayan	UME Turkey
	16:40 - 17:05	#58_2014	Optical form measurement based on sub-aperture stitching with a fast interferometric line sensor	Sören Laubach	PTB Germany
	17:05 - 17:30	#13_2014	Straightness measurements at the Nanometer Comparator	Christoph Weichert	PTB Germany
20:00	<i>Conference Dinner</i>				

**Agenda of Sessions**

updated: October 21, 2014

<b>30th Oct. (Thu)</b>	<b>Session 4: High resolution interferometry, Part 1</b>					
	Session Chair: Jack Stone, NIST					
	09:00 - 09:25	#08_2014	The spheres interferometer of PTB: key experiment for the new definition of the SI-unit kilogram	Arnold Nicolaus	PTB	Germany
	09:25 - 09:50	#62_2014	Correction of the new PTB sphere interferometer for expanded sources	Torsten Mai	PTB	Germany
	09:50 - 10:15	#11_2014	Experimental investigation of diffraction effects in high-accuracy laser interferometry	Carlo Sasso	INRIM	Italy
	10:15 - 10:40	#09_2014	Investigation on the influence of wavefront shapes on the traceability of laser interferometry	Birk Andreas	PTB	Germany
	10:40 - 11:45	<i>Coffee Break / Poster Sessions</i>				
	<b>Session 4: High resolution interferometry, Part 2</b>					
	Session Chair: Antti Lassila, MIKES					
	11:45 - 12:10	#65_2014	A heterodyne laser interferometer system with sub-atomic uncertainty	Paul Köchert	PTB	Germany
	12:10 - 12:35	#14_2014	Capacitive sensor calibration with Fabry-Perot Interferometry	Dirk Voigt	VSL	Netherlands
	12:35 - 13:00	#50_2014	The statistical uncertainty of the Heydemann correction - A practical limit of optical quadrature homodyne interferometry	Rainer Köning	PTB	Germany
	13:00 - 14:00	<i>Lunch</i>				
	<b>Session 4: High resolution interferometry, Part 3</b>					
	Session Chair: Rainer Köning, PTB					
14:00 - 14:25	#32_2014	Absolute length measurement of prismatic bodies with PTB's new double-ended interferometer under the influence of wavefront aberrations	Katharina Rau	PTB	Germany	
14:25 - 14:50	#22_2014	Dimensional drift and thermal stability of specialized joining techniques studied by absolute interferometry	Hagen Lorenz	PTB	Germany	
14:50 - 15:15	#61_2014	Thermal expansion of single crystal silicon – Comparison of accurate measurements from 20 K to 293 K	Thomas Middelmann	PTB	Germany	
15:15 - 15:30	<i>Closing</i>					

**Agenda of Sessions**
*updated: October 21, 2014*

Poster Session I				
#02_2014	Accuracy enhancement for measurements in double-flank contact	Achim Wedmann	PTB	Germany
#07_2014	Wave front and phase corrections for a double ended gauge block interferometer	Antti Lassila	MIKES	Finland
#10_2014	Measurement standard for monitoring performance of machine tools in harsh environmental condition	Bojan Acko	University of Maribor	Slovenia
#12_2014	Applied line scale and gauge block calibration with the Automatic Interference Comparator Lambda-Mess 600	Chris Schuchardt	Zeiss	Germany
#15_2014	Picometer-level dimensional stability measurements using a balanced, double sided heterodyne interferometer in air	Dirk Voigt	VSL	Netherlands
#16_2014	Study on height-dependent spindle error of a form measuring machine	Emilio Prieto	CEM	Spain
#18_2014	Economic high resolution fringe counting for heterodyne interferometers using FPGA technology	Felix Meli	METAS	Switzerland
#20_2014	Renewal of the gauge-block interferometer at INRIM	Gian Bartolo Picotto	INRIM	Italy
#23_2014	Determination of the track parallelism of a sandwich panel producing machine	Gyula Hermann	Óbuda University	Hungary
#24_2014	Characterization of a miniature probe based on silicon Michelson interferometer for dimensional measurements	Hichem Nouira	LNE	France
#28_2014	Limitation from amplitude to phase modulation conversion in telemetry	Jean-Pierre Wallerand	CNAM	France
#29_2014	The impact of roughness on Small Sphere Measurements by CMM and XCT	Jan Sramek	CMI	Czech Republic
#30_2014	Concept of a femtosecond frequency comb based heterodyne many-wavelength interferometer	Jutta Mildner	PTB	Germany
#35_2014	Interference system for calibration of the linescales	Volodymyr Kupko <i>presented by Aleksei Liubzhyn</i>	NSC	Ukraine
#43_2014	Evaluating and visualizing of the quality of surface points determined from computed tomography volume data	Matthias Fleßner	FAU	Germany

**Agenda of Sessions**

updated: October 21, 2014

Poster Session II				
#36_2014	Investigation of uncertainty of GNSS-based distance metrology using EPN double stations data	Volodymyr Kupko <i>presented by</i> Alekssei Liubzhyn	NSC	Ukraine
#37_2014	Comparison of three different industrial computed tomography (CT) systems	Lonnie Andersen	DTI	Denmark
#38_2014	The INRiM long range interferometric measurement facility	Milena Astrua	INRIM	Italy
#40_2014	Simulation of industrial environment in Large Volume Metrology	Mariusz Wisniewski	GUM	Poland
#41_2014	Variability of wringing layer thickness in gauge block interferometry	Marko Katic	University of Zagreb	Croatia
#42_2014	Calibration of a 3D-working space: Limits and uncertainties of multilateration techniques using a Single Tracking Interferometer	Martin Camboulives	LNE	France
#44_2014	Determination of metrological structural resolution of a CT system using the frequency response on surface structures	Matthias Fleßner	FAU	Germany
#46_2014	Refractometer development for laser based measurements	Oelof Kruger	NMISA	South Africa
#47_2014	Modernized interferometric comparator for calibration of line scale	Piotr Sosinowski	GUM	Poland
#48_2014	Analysis of an upgraded 3D measuring machine for traceability of bidirectional vision standards	Pedro Costa <i>presented by</i> José C. de Oliveira	INMETRO	Brazil
#49_2014	The uncertainty evaluation of homodyne signals	Petr Kren	CMI	Czech Republic
#52_2014	Data fusion for high precision metrology: A novel fine registration technique	Rindra Rantosen	LNE	France
#55_2014	Calibration standards to enable traceable in-process measurements of critical to quality product parameters	Richard Koops	VSL	Netherlands
#57_2014	Optical encoder method for simultaneous measurement of x/y-displacement and rotation in z for displacement units	Sebastian Strube	PTB	Germany
#60_2014	Towards interferometric mapping of piezoelectric strain at elevated temperatures	Tatjana Quast	PTB	Germany
#64_2014	Alternative method for calibration of Vickers Indenter using a high precision Coordinate Measuring Machine ( $\mu$ CMM)	Zsolt Zelenka	BEV	Austria
#66_2014	"Virtual Metrology Frame" for a robot-based assembly	Martin Peterek	RWTH	Aachen
#67_2014	1D Long-Bed Interferometer	Brian Eves	NRC	Canada