

Friday, July 8, 2016

09:00 - 17:00	Satellite Meeting (By Invitation Only)
	Executive Level
	CCM Working Group on the Realisation of the
	Kilogram (CCM WGR-kg) (By Invitation Only)
	Birch Room - Executive Level
	Chair: Horst Bettin, PTB

Saturday, July 9, 2016

09:00 - 17:30

16:00 - 17:00

09:00 - 17:30 Satellite Meetings (By Invitation Only) Executive Level CCEM Working Group on the Electrical Methods CCEM Working Group on the Electrical Methods to Monitor the Stability of the Kilogram (By Invitation Only) Invitation Only) Oak Room - Executive Level Chair: Ian Robinson, National Physical

Sunday, July 10, 2016

12:00 - 20:30	Registration		
	Nunavut		
	14:00 - 15:30	16:00 - 17:30	16:00 - 17:30

14:00 - 17:30 Satellite Meetings (By Invitation Only) Executive Level

Laboratory

18:00 - 20:30 Monday, July 11, 2	APMP TCEM (By Invitation Only) Oak Room - Executive Level Chair: Murray Early, Measurement Standards Laboratory o New Zealand Welcome Reception Provinces & Confederat	National Measurement Institute Australia	Informal EURAMET SCLF meeting (By Invitation Only) Maple Room - Executive Level Chair: Jürgen Melcher, PTB			
Monday, July 11, 2						
07:00 - 18:30	Registration Nunavut					
08:30 - 09:00	Opening Session Governor General Ballro	oom				
09:00 - 09:45	Governor General Ballro	ntum-based Voltage Met oom n Benz, National Institute		•	ces at NIST	
09:45 - 10:00	Group Picture Governor General Ballro	oom				
10:00 - 18:00	Exhibition Confederation Foyer					
10:00 - 10:30	Coffee Break Confederation Foyer 10:30 - 10:50	10:50 - 11:10	11:10 - 11:30	11:30 - 11:50	11:50 - 12:10	12:10 - 12:30
10:30 - 12:30	Mo-1 Voltage I Governor General Ballro Chair: Alain Rufenacht, Investigations on Extending the	NIST Further Investigation for	⁻ Stable arbitrary waveform generator as	Characterization of the frequency response of	Development of high precision voltage	Design of delta-sigma feedback loop for
	Frequency Range of PJVS based AC Voltage Calibrations	Overcome Transient e Effect of Staircase Waveform	a transfer standard for ADC calibration	Analog-to-Digital Converters	dividers and buffer for AC voltage metrology up to 1 MHz	quantum voltage digitizer
	Presenting Author: Waldemar Guilherme Kürten Ihlenfeld,	Presenting Author: Yan Yang, National Institute of Metrology		Presenting Author: Javier Diaz de Aguilar, Centro Español de Metrología (CEM)	Presenting Author: Bjørnar Karlsen, Justervesenet	Presenting Author: Jane Ireland, National Physical Laboratory

INMETRO

Centre for Metrology MIKES

10:30	- 12:30	Mo-2 Power and Energ Provinces I Chair: Gerald FitzPatrick	-	-			
		Power Quality Propagation Measurements in Smart Grids	Asynchronous phase comparator for characterization of devices and PMU	A Reference Merging Unit and Calibration Setup for Sampled Values over Ethernet	Accurate Phase Calibration of PMUs and PMU Calibrators	Measurements in Europe	An Accurate Phase Compensation Algorithm for PMUs
		Presenting Author: Paul Wright, NPL	calibrator Presenting Author: Umberto Pogliano, INRIM	Presenting Author: Tapio Lehtonen, VTT MIKES Metrology	Presenting Author: Gert Rietveld, VSL	Presenting Author: Paul Wright, NPL	Presenting Author: Francisco Messina, Facultad de Ingeniería, Universidad de Buenos Aires, Argentina
10:30	- 12:30	Mo-3 Radio Frequency Provinces II					-
		Chair: Luciano Brunetti, Mechanical Aspects in mm-wave Measurements	of Thermal Isolation Section in a	V-band Waveguide Microcalorimeter for Millimeter-wave Power	A Nonlinear Verification Device for Nonlinear Vector Network	Uncertainty Analysis for Waveguide VNA	of 110 GHz to 170 GHz
		Presenting Author: Markus Zeier, METAS	Rectangular Waveguide Microcalorimeter Presenting Author: Xiaohai Cui, National Institute of Metrology,	Standards Presenting Author: Jae- Yong Kwon, KRISS	Analyzers Presenting Author: David Humphreys, National Physical Laboratory	Terahertz Frequency Presenting Author: Masahiro Horibe, NMIJ /	using a mm-Wave VNA Presenting Author: Anton Widarta, National Metrology Institute of Japan
12:30 -	14:00	Lunch Confederation II & III 14:00 - 14:20	China 14:20 - 14:40	14:40 - 15:00	15:00 - 15:20	15:20 - 15:40	15:40 - 16:00
14:00	- 16:00	Mo-4 Quantum Standa Governor General Ballro	rds I				
		From AC Quantum Voltmeter to Quantum Calibrator	Simultaneous Double Waveform Synthesis with a Single Programmable	Improvement of	Dry cooling of a 10 V programmable Josephson voltage standard array	A Differential Programmable Josephson Voltage Standard for Low-	10 Volt Automated Direct Comparison of Two Cryocooled Programmable
		Presenting Author: Jinni Lee, Physikalisch- Technische Bundesanstalt	Josephson Voltage Standard Presenting Author: Alain	Presenting Author: Yi- hua Tang, National	Presenting Author: Michael Starkloff, Supracon AG	voltage Measurement Presenting Author: Honghui Li, National	Josephson Voltage Standards Presenting Author: Alain
			Aldin			nongnui Li, National	Aution Addition

		Rufenacht, NIST	and Technology		Institute of Metrology	Rufenacht, NIST
14:00 - 16:00	Mo-5 Impedance I					
	Provinces I					
	•	rology Institute of The Re	-			1
	Reference	The frequency	An AC-DC Resistor	•	Traceable DC – 18 GHz	•
	Micropotentiometer Resistors for AC-DC	gas-dielectric capacitor	based on a silicon wafer	Method	Characterization of Coaxial 50 Ω	measurements up to 13 MHz
	Transfer and Phase		Presenting Author:	Method	Impedance Standards	
	Error Measurements	Presenting Author: Luca Callegaro, Istituto	-	Presenting Author: Hyung-Kew Lee, KRISS	Presenting Author: Gert	Presenting Author: Francois Ziadé, LNE
	Presenting Author: Ilya	Nazionale di Ricerca	Standards and		Rietveld, VSL	
	Budovsky, National	Metrologica (INRIM)	Science(KRISS)			
	Measurement Institute					
	Australia					
14:00 - 16:00	Mo-6 Current I					
	Provinces II					
	Chair: Jari Hällström, M		lesses consents in the	Europeien of the	Development of Lligh	
	Ultrastable Low-Noise Current Amplifiers With		Improvements in the Performance of a	Expansion of the Measurement Bange of	Development of High	A DCCT-Based 100-A DC Current Source With
	Extended Range and	Current Converters	Calibration System for	AC Shunt Resistor	Design with Active	High Stability
	Improved Accuracy		Rogowski Coils at High	Standard	Cooling	r light Otdollity
		Presenting Author:	Pulsed Currents		0	Presenting Author:
	Presenting Author:	Thomas Lipe, NIST		Presenting Author:	Presenting Author: Věra	
	Dietmar Drung, Physika	I	Presenting Author:	Seitaro Kon, AIST, NMIJ	Nováková Zachovalová,	Institute of Metrology
	isch-Technische		Branislav Djokic,		Czech Metrology	
	Bundesanstalt (PTB)		National Research Council Canada		Institute	
16:00 - 16:45	Coffee Break					
	Confederation Foyer					
16:00 - 18:00	Poster Sessions: Mo-F	PS1 to PS9				
40.00 40.00	Confederation I					
18:00 - 19:30	Satellite Meeting (By I	nvitation Only)				
18:00 - 19:30	Executive Level Meeting of the Supplem	ontory Comparison				
10.00 - 19.30	EURAMET.EM-S31 (By					
	Birch Room - Executive	• ,				
	Chair: Juergen Schurr, I					
Tuesday, July	/ 12. 2016					
	,					

07:30 - 18:30 Registration Nunavut

08:30 - 09:15	Kibble Plenary Tu-PL2: Nature never deals off of the bottom of the deck but she holds all of the aces: The joys of doing precision measurement science Governor General Ballroom							
			of Colorado, and the Univ	versity of Glasgow				
09:15 - 10:00	Kibble Plenary Tu-PL2: Precision Atom Interferometry Governor General Ballroom Presenting Author: Mark Kasevich, Stanford University							
10:00 - 18:00	Exhibition Confederation Foyer							
10:00 - 10:30	Coffee Break Confederation Foyer							
	10:30 - 10:50	10:50 - 11:10	11:10 - 11:30	11:30 - 11:50	11:50 - 12:10	12:10 - 12:30		
10:30 - 12:30	Tu-1 Watt Balances I Governor General Ballro Chair: Beat Jeckelmann		rology METAS					
	First mass measurements with the NIST-4 watt balance		NRC Watt Balance	The Construction of the New Joule Balance at the NIM	watt balance	Towards the next generation NPL watt balance		
	Presenting Author: Darine Haddad, National Institute of Standards and Technology	Presenting Author: Ali Eichenberger, METAS	Presenting Author: Barry Wood, National Research Council Canada	Presenting Author: Zhengkun Li, National Institute of Metrology (P R. China)	Presenting Author: Hao Fang, BIPM	Presenting Author: Ian Robinson, National Physical Laboratory		
10:30 - 12:30	Tu-2 Power & Energy II Provinces I Chair: Thomas Nelson, I							
	Comparison of Two Realisations of a Power Standard	A computer-controlled calibrator for instrument transformer test sets	Calibration of Electronic Transformer with Digital Output Based on Synchronous Sampling	Measurement of Reactive Compensation Components by	An AC Current Transformer Measuring System for Power Frequencies	Development of HF Power Source for the Calibration of Electrosurgical Analyzer		
	•	Presenting Author: Christian Mester, Federal Institute of	Presenting Author: Yang Pan, Shanghai	Sampling Voltage and Current	Presenting Author: Enrico Mohns, PTB	Presenting Author: Wei Zhao, National Institute		
	Australia	Metrology METAS	Institute of Measurement and Testing Technology	Presenting Author: Enrico Mohns, PTB		of Metrology, China		
10:30 - 12:30	Tu-3 Time and Frequer Provinces II	•						
	Chair: Mikko Merimaa, V QPN Limited Stability		Centre of Finland Ltd. Progress toward a new	Optical Cryogenic	Sub-Doppler laser	Dependence of Scale		

12:30 - 14:00 14:00 - 16:00	and BBR Shift Uncertainty of NRC's Sr+ Atomic Clock Presenting Author: Bin Jian, National Research Council Canada Lunch Confederation II & III Poster Sessions: Tu-P	de Paris	implementation of an In+ optical clock Presenting Author: Ying Li, National Institute of information and Communications Technology	Presenting Author: Thomas Legero, Physik alisch-Technische Bundesanstalt	spectroscopy of molecular iodine at 578 nm Presenting Author: Takumi Kobayashi, National Metrology Institute of Japan	Factor on Initial Cloud Size for an Atom-Ball Gyroscope Presenting Author: Bruno Pelle, National Institute of Standards and Technology
14:30 - 15:15	Confederation I Coffee Break Confederation Foyer 16:00 - 16:20	16:20 - 16:40	16:40 - 17:00	17:00 - 17:20	17:20 - 17:40	17:40 - 18:00
16:00 - 18:00	Tu-4 Quantum Standar Governor General Ballro Chair: Stephane Solve, I 2 Volt Pulse-Driven Josephson Arbitrary Waveform Synthesizer Presenting Author: Nathan Flowers-Jacobs, NIST	oom BIPM First Metrological	a PJVS at 1 Volt Presenting Author: Alain	Synthesizer Based on a Pulse-driven Josephson Array	Josephson Voltage	Implementation of a Programmable Josephson Voltage Standard in a Zero Boil- off Dewar Presenting Author: Tom Stewart, Measurement Standards Laboratory of New Zealand
16:00 - 18:00	Tu-5 Impedance II Provinces I Chair: Luca Callegaro, Is Measurement of Time Constant of Four- terminal Resistor Based on Dissipation Factor Presenting Author: Jian Feng, Shanghai Institute of Measurement and Testing Technology	Bridge Presenting Author:	ca Metrologica (INRIM) Transport Behaviour and Stability of Inductors for International Comparisons Presenting Author: Jürgen Melcher, PTB	Meter at Arbitrary Phase Angles using a Fully Automated Impedance Simulator Presenting Author: Frédéric Overney,	capacitance standard at	

16:00 - 18:00	Tu-6 Radio Frequency Provinces II Chair: Masahiro Horibe,					
	Thermoelectric Power Transfer Standards for V- and W-Band	Characterization of high-	Waveguide Extenders	Uncertainty Evaluation of Balanced S Parameter Measurements	Development of Verification Process for On-Wafer Measurement at Millimeter-Wave	CENAM's Primary Standard for Microwave Power up to 18 GHz
	Presenting Author: Rolf Judaschke, PTB	-	Johannes Hoffmann, METAS	Presenting Author: Francois Ziadé, LNE	Frequency Presenting Author: Ryo Sakamaki, National Institute of Advanced Industrial Science and Technology	Presenting Author: Mariano Botello-Perez, CENAM
	18:00 - 18:30		18:00 - 19:30			
18:00 - 19:30	Satellite Meetings (By Executive Level	Invitation Only)				
	EURAMET EM, DC & C	uantum Metrology	EURAMET TC-EM Wor	king Group on Strategic		
	Experts Meeting (By Inv	• /	Planning WGSP (By Inv	• /		
	Oak Room - Executive I		Oak Room - Executive I			
	Laboratory	nssen, National Physical	Ricerca Metrologica (IN			
Wednesday, J	•)		
07:30 - 18:30	Registration					
08:30 - 09:15	Nunavut Plenary We-PI 3: Linki	ng the International Sys	stem of Units to Fundar	nental Constants		
00.00 00.10	Governor General Ballro					
	Presenting Author: Joac	him Ullrich, Physikalisch-	Technische Bundesanst	alt		
09:15 - 10:00	Plenary We-PL3: Optic					
	Governor General Ballro		tondoudo and Took	u and Linius with u of O - i	a da	
10.00 10.00	-	Ye, National Institute of S	tandards and Technolog	y and University of Color	ado	
10:00 - 18:00	Exhibition Confederation Foyer					
10:00 - 10:30	Coffee Break					
10.00 10.00	Confederation Foyer					
	10:30 - 10:50	10:50 - 11:10	11:10 - 11:30	11:30 - 11:50	11:50 - 12:10	12:10 - 12:30
10:30 - 12:30	We-1 Quantum Standa	urds III				
10.00 12.00						

Governor General Ballroom

10.00 10.00	Accuracy verification of single-electron pumps with 0.2 ppm uncertainty Presenting Author: Frank Hohls, Physikalis ch-Technische Bundesanstalt	tunable-barrier electron	Robustness of single- electron pumps at sub- ppm level Presenting Author: Frank Hohls, Physikalis	Profile-Tunable Electron Pump Presenting Author:	-Scaling the current from a GHz electron pump using a CCC Presenting Author: Stephen Giblin, Nationa Physical Laboratory	programmable quantum current generator Presenting Author:
10:30 - 12:30	Impedance Bridge Based on Pulse-Driven Josephson Arrays for Arbitrary Impedance Ratios Presenting Author: Stephan Bauer, Physika lisch-Technische Bundesanstalt	alisch-Technische Bunde Systematic Error Analysis in a Josephson Impedance Bridge Presenting Author: Thomas Hagen, PTB	Josephson-Based Full	A three-arm 4TP digitally-assisted bridge for the comparison of arbitrary impedances Presenting Author: Massimo Ortolano, Politecnico di Torino	A Digital Four-Terminal Pair Impedance Bridge Presenting Author: Waldemar Guilherme Kürten Ihlenfeld, INMETRO	Large Capacitance Measurement System Based on Dual Balance Bridge Presenting Author: You Li, Beijing Orient Institute of Measurement and Test
10:30 - 12:30	10 V Transconductance Amplifier for the Comparison of Josephson Standards and Thermal Converters Presenting Author: Ilya Budovsky, National Measurement Institute Australia	transfer standards at NMIJ	itute Australia A Simple Model for the Prediction of AC-DC Difference of Multi- Junction Thermal Converters Presenting Author: Stefan Cular, National Institute of Standards and Technology	Calibration of Inductive Voltage Dividers at Power Frequencies Using an AC-PJVS Presenting Author: Jimmy Hsu, Center for Measurement Standards (CMS/ITRI)	Establishing of 1000V Multi-decade Inductive Voltage Divider Standard at NIM Presenting Author: Wei Wang, National Institute of Metrology P.R.China	Technische
12:30 - 14:00	Lunch Confederation II & III 14:00 - 14:20	14:20 - 14:40	14:40 - 15:00	15:00 - 15:20	15:20 - 15:40	15:40 - 16:00
14:00 - 16:00	We-4 Fundamental Cor Governor General Ballro Chair: Horst Bettin, PTB	om				

	Mass measurement of 28Si-enriched spheres at NMIJ for determination of the Avogadro constant	Results from the Magnetic Suspension Mass Comparator for Vacuum-to-Air Mass Dissemination	Comparison of two methods for determining the sorption correction for a vacuum-realized kilogram	Mass Measurement Experiment	Magnet Assembly for the KRISS Watt Balance	Surface layer analysis of Si spheres both in vacuum and in air by an improved ellipsometer
	Presenting Author: Shigeki Mizushima, National Metrology Institute of Japan	Presenting Author: Corey Stambaugh, National Institute of Standards and Technology	Presenting Author: Patrick Abbott, NIST	Presenting Author: Zhuang Fu, Tsinghua University	Kwang-Cheol Lee, KRISS	Presenting Author: Kazuaki Fujita, National Metrology Institute of Japan / National Institute of Advanced Industrial Science and Techno
14:00 - 16:00	We-5 Power & Energy Provinces I	111				
		anza, Centro Nacional De	Metrologia			
		Calibration of 90° Phase	-	A Proposal to Establish	Improvement of	Harmonics and
	IEC 61850-9-2 Test	Difference Measured by		a System for Calibration	•	Interharmonics Spectral
	Sets	Digital Sampling Method	-	of Harmonic Power	•	Analysis by ANN
				Analyzers	Wideband Complex	
	Presenting Author:	Presenting Author: Jian				Presenting Author:
	Marco Agustoni,	Feng, Shanghai Institute		Presenting Author:		Javier Diaz de Aguilar,
	Federal Institute of	of Measurement and	Physical Laboratory	Hongtao Huang,		Centro Español de
	Metrology (METAS)	Testing Technology		National Institute of Metrology	Domenico Giordano, Istitito Nazionale di	Metrología (CEM)
					Ricerca Metrologica	
14:00 - 16:00	We-6 Resistance I Provinces II					
	Chair: François Piquema	al INF				
		Magnetocapacitance	Millimeter-sized	Tests of Series	Towards a cryogen-free	AC quantum Hall effect
	based quantum Hall	and Dissipation Factor	Graphene Quantum Hall			in epitaxial graphene
	resistance standards	of Epitaxial Graphene	Devices for Resistance	Based on Epitaxial	resistance standard	
		Hall Bars	Standards	Graphene		Presenting Author: Felix
	Presenting Author:				Presenting Author: Jan-	Lüönd, METAS
	Wilfrid Poirier, Laboratoire National de	Presenting Author:	Presenting Author: Yanfei Yang, National	Presenting Author: Antti Manninen, VTT	National Physical	
	métrologie et d'Essais	Juergen Schun, FTB	Institute of Standards and Technology	Technical Research Centre of Finland Ltd	Laboratory	
16:00 - 16:45	Coffee Break Confederation Foyer					
16:00 - 18:00	Poster Sessions: We-F	S1 to PS7				
	Confederation I					

18:15 - 19:00	18:15 - 19:00 Transportation from the Westin to the Banquet Venue Canadian Museum of History							
19:00 - 21:00 Banquet at the Canadian Museum of History Canadian Museum of History								
21:00 - 21:30	Transporation from th Canadian Museum of H	e Banquet Venue to the istory	Westin					
Thursday, July 14	, 2016							
08:00 - 18:30	Registration Nunavut							
	08:30 - 08:50	08:50 - 09:10	09:10 - 09:30	09:30 - 09:50	09:50 - 10:10			
08:30 - 10:10 08:30 - 10:10	Measurement of Boltzmann Constant Using Superconducting Integrated Circuit Presenting Author: Chiharu Urano, Nationa Institute of Advanced Industrial Science and Technology Th-2 Power & Energy	ional Institute of Standard Accuracy of the New Voltage Standard Using Josephson Junctions Cooled to 77 K Presenting Author: I Alexander Klushin, Institute for Physics of Microstructures of the Russian Academy of Sciences (IPM RAS)	ds and Technology Temperature sensitivity coefficients of the BIPM secondary voltage standards Presenting Author: Stephane Solve, BIPM	•	Digital Phase Standard of High Accuracy up to the MHz-Range Presenting Author: Waldemar Guilherme Kürten Ihlenfeld, INMETRO			
08:30 - 10:10	Provinces I Chair: Eddy So, Nationa Study on High- Frequency Power Calibration Technology for Electrosurgical Analyzer Presenting Author: Wei Zhao, National Institute of Metrology, China Th-3 Impedance IV Provinces II	Multimeter for Electronic Transformer Calibration Presenting Author: Yang Pan, Shanghai	Upgrade of Accuracy and Traceability the SP Sampling Wattmeter Presenting Author: Stefan Svensson, SP	Traceability and On-Site Calibration of the NRC- MSS Depolarization Current Measurements Presenting Author: Refat Ghunem, National Research Council Canada	of MV Voltage Transformer under Actual Waveforms Presenting Author:			

	Chair: Jürgen Melcher, F Determination of impedance meter nonlinearity with a capacitance build-up method Presenting Author: Faranak Pourdanesh, Istituto Nazionale di Ricerca Metrologica (INRIM); Politecnico di Torino	PTB The Optimal Hollow Active Auxiliary Electrode and Its Additional Functions Research Presenting Author: Lu Huang, National Institute of Metrology, China	-	BIPM Presenting Author: Pierre Gournay, BIPM	Progress report on the determination of RK at LNE Presenting Author: Olivier Thévenot, Laboratoire National de métrologie et d'Essais	
10:00 - 16:00	Exhibition Confederation Foyer					
10:00 - 10:30	Coffee Break Confederation Foyer					
	10:30 - 10:50	10:50 - 11:10	11:10 - 11:30	11:30 - 11:50	11:50 - 12:10	12:10 - 12:30
10:30 - 12:30	Universality test of the quantum Hall effect on topological insulator Presenting Author: Tetsuro Misawa, NMIJ,	oom reau International des Po Direct Comparison of Fractional and Integer Quantized Hall Resistances: Status and Perspectives	Development of 1-MΩ Quantum Hall Array Resistance Standards Presenting Author: Takehiko Oe,	Presenting Author: Xueshen Wang,		Presenting Author: Yasutaka Amagai,
	AIST	Presenting Author: Franz Ahlers, PTB	NMIJ/AIST	National Institute of Metrology	Presenting Author: Stephane Solve, BIPM	National Metrology Institute of Japan
10:30 - 12:30	Th-5 Time and Frequer Provinces I Chair: François Nez, Lal	ncy II poratoire Kastler Brossel	/CNRS/UPMC/ENS			
	Study of the OP-PTB Link by Carrier-Phase Two-Way Satellite Time and Frequency Transfer	Terahertz Frequency Metrology at NICT	NIST on a Chip with Alkali Vapor Cells: Initial Results	•		Using small mass and force metrology for laser power measurement
	Presenting Author: Joseph Achkar, LNE- SYRTE / Observatoire	Presenting Author: Motohiro Kumagai, National Institute of Information and	Presenting Author: John Kitching, NIST		Presenting Author: Patrick Egan, NIST	Presenting Author: Gordon Shaw, U.S. National Institute of Standards and

	de Paris	Communications Technology				Technology (NIST)
10:30 - 12:30	Th-6 Radio Frequency Provinces II Chair: Ron Ginley, NIST					
	Comparison between time- and frequency-	Comparison of Calibration Methods for Multiport VNAs up to 67		Measurement Uncertainty of Free Space Antenna Factor for BI-log Antenna Using Amplitude Center	Investigation of Peak Envelope Power Measurements and Uncertainties	A Signal Processing Approach for Recovery of High-Q Dielectric Resonance Profile Measurements
	Presenting Author: Mark Bieler, Physikalisch- Technische Bundesanstalt	Presenting Author: Djamel Allal, Laboratoire National de Métrologie et d'Essais (LNE), Trappes, France	Presenting Author: Zhenfei Song, National Institute of Metrology (NIM), China	Presenting Author: Satoru Kurokawa, National Institute of Advanced Industrial Science and Technology of Japan	Presenting Author: Yu Song Meng, National Metrology Centre, A*STAR	Presenting Author: Brian O'Keefe, Tufts University
12:30 - 14:00	Lunch Confederation II & III 12:30 - 15:00		18:00 - 19:30			
12:30 - 19:30	Satellite Meetings (By Executive Level CPEM Executive Comm		ACQ-PRO Project Meet	-		
	Invitation Only) Oak Room - Executive Level Chair: Dean Jarrett, National Institute of Standards and Technology		Oak Room - Executive Level Chair: Javier Diaz de Aguilar, Centro Español de Metrología (CEM)			
14:00 - 16:00	Poster Sessions: Th-P Confederation I	S1 to PS8				
14:30 - 15:15	Coffee Break Confederation Foyer					
16:00 - 18:00	Exhibition Teardown Confederation Foyer					
	16:00 - 16:20	16:20 - 16:40	16:40 - 17:00	17:00 - 17:20	17:20 - 17:40	17:40 - 18:00
16:00 - 18:00	Th-7 Fundamental Con Governor General Ballro Chair: Peter Mohr, NIST	oom				
	Laser spectroscopy of muonic deuterium : new contribution to the	Improved spectral	High Resolution Spectroscopy of 1S-3S Transition in Hydrogen	Upgrading the NIST Electrostatic Force Balance	An Oscillating Magnet Watt Balance	Towards a test of the Weak Equivalence Principle of gravity using

16:00 - 18:00	proton puzzle Presenting Author: François Nez, Laboratoire Kastler Brossel /CNRS/UPMC/ENS Th-8 Resistance II Provinces I	Presenting Author: Alessio Pollarolo, NIST	Presenting Author: Helene Fleurbaey, Laboratoire Kastler Brossel / UPMC / CNRS / ENS	Presenting Author: Julian Stirling, National Institute of Standards S and Technology	Presenting Author: Haji Ahmadov, TUBİTAK	anti-hydrogen at CERN Presenting Author: François Nez, Laboratoire Kastler Brossel /CNRS/UPMC/ENS
		easurement Standards La Ultra-High Resistance Measurement Based on Non-Contact Electrostatic Voltmeter Presenting Author: Feipeng Lin, National Institute of Metrology, China	Development of an AC	Development of 1 Ω and 10 Ω Metal Foil Standard Resistors Presenting Author: Nobu-Hisa Kaneko, NMIJ/AIST	Evaluation of the Automatic Coaxial Mechanical Scanner for High-Resistance Measurement Use Presenting Author: Takehiko Oe, NMIJ/AIST	Quantum Hall Resistance Traceability for the NIST-4 Watt Balance Presenting Author: Dean Jarrett, National Institute of Standards and Technology
16:00 - 18:00	Th-9 Novel Sensors / Provinces II Chair: Po Gyu Park, Kou Time-resolved detection of the berry curvature in GaAs nanostructures Presenting Author: Mark Bieler, Physikalisch- Technische Bundesanstalt	rea Research Institute of Methods for characterization and minimization of microwave background	Analysis of Heat Loss for Measurement of Thomson Coefficient	(KRISS) Coplanar Capacitive sensor for Measuring Horizontal Displacemen in Joule Balance Presenting Author: Yang Bai, Harbin Institute of Technology	Identification and correction of artefact in t the measurement of pulsed magnetic fields Presenting Author: Domenico Giordano, Istitito Nazionale di Ricerca Metrologica	Digital Control of Magnetic Induction Waveform Applied to Silicon Steel Sheets Characterization Presenting Author: Matheus Pinheiro, Universidade Federal de Goiás
Friday, July 15, 2016						
08:00 - 11:30	Registration Nunavut 08:30 - 08:50	08:50 - 09:10	09:10 - 09:30	09:30 - 09:50	09:50 - 10:10	10:10 - 10:30
08:30 - 10:30	Fr-1 Avogadro I Governor General Ballro Chair: Michael Stock, B					

	The new Kilogram Materialized by Silicon Isotopes Presenting Author:	Realization of the Kilogram Based on the Planck Constant at NMIJ	A Two Thickness Interferometer for Lattice Strain Investigations	Surface characterization of silicon spheres by combined XRF and XPS analysis	reproducibility of PTB's	Comparison of Mean Diameters of Si- Spheres Measured with both PTB-Sphere Interferometers
	Frank Haertig, Physikali sch-Technische Bundesanstalt	Presenting Author: Naoki Kuramoto, National Institute of Advanced Industrial Science and Technology	Presenting Author: Enrico Massa, INRIM - Istituto Nazionale di Ricerca Metrologica	Bundesanstalt	-	Presenting Author: Torsten Mai, Physikalisc h-Technische Bundesanstalt
08:30 - 10:30	Fr-2 Power & Energy V Provinces I Chair: Enrico Mohns, PT					
	A Buildup Method for Determining the Voltage Coefficient of High Voltage Resistors	Bilateral high voltage	kV LVE-TSVT			Design and Self- calibration of the RVD with Serial-parallel Connection
	Presenting Author: Harold Parks, National Research Council Canada	Presenting Author: Jari Hällström, MIKES-VTT	Haiming Shao, National Institute of Metrology	Council Canada	Presenting Author: Huanghui Zhang, School of Instrumentation Science and Opto-electronics Engineering, Beihang University	Presenting Author: Xianlin Pan, NIM
08:30 - 10:30	Fr-3 Radio Frequency / Provinces II Chair: David Humphreys		ratory			
	Estimation of waveform state levels and uncertainties using the histogram and shorth methods		An experimental set-up to compare	Permittivity Dielectric Characteristics at Microwave and mm-	•	Microwave Radiometry of Blackbody Radiation Presenting Author: Dazhen Gu, National
	Presenting Author: Mark Bieler, Physikalisch- Technische Bundesanstalt	•	÷	Presenting Author: Young-Pyo Hong, Korea Research Institute of Standards and Science	Judaschke, PTB	Institute of Standards and Technology
10:30 - 11:00	Coffee Break Confederation Foyer					

11:00 - 11:30	Closing Session
	Governor General Ballroom
11:30 - 12:00	Transportation to NRC
12:00 - 16:00	NRC Laboratory Tour
40.00 40.00	National Research Council Laboratory Facility
16:00 - 16:30	Transportation to the Westin Hotel

Saturday, July 16, 2016

09:00 - 16:00	Satellite Meetings (By Invitation Only)				
	Executive Level				
	SIM Electricity and Magnetism Metrology	CODATA Task Group on Fundamental			
	Working Group (By Invitation Only)	Constants (TGFC) (By Invitation Only)			
	Quebec Room	Oak Room - Executive Level			
	Chair: Lucas Daniel Di Lillo, Instituto Nacional De Chair: David Newell, NIST				
	Tecnologia Industrial INTI				