



Version of 26 September 2016

Agenda for BIPM-WADA Symposium 28-29 September 2016

STANDARDS AND METROLOGY FOR ANTI-DOPING ANALYSIS

Day 1:	Wednesday 28 th September	
8.30-9.00	Registration	
Opening of the meeting		
9.00-9.05 9.05-9.15	Opening of the meeting (Dr Robert Wielgosz) Opening Address by the Minister of State for Sport, attached to the Minister of Urban Affairs, Youth and Sport (Mr Thierry Braillard)	
9.15-9.25	Reply by the Director of the BIPM (Dr Martin Milton)	
9.25-9.35	Address by the Chair of WADA Health and Medical Research Commission (Dr Valérie Fourneyron)	
9.35-9.45	Address by the Director of the Office of Special Programs, NIST (Dr Richard Cavanagh)	
9.50-10.20	Group Photograph /Coffee Break	
	METROLOGY FOR ANTI-DOPING ANALYSIS: CURRENT ISSUES	
Session 1	Metrology Needs and Reference Material requirements for Anti-Doping Analysis	
	Co-Chairs: Lindsey Mackay/John Miller	
10.20-10.40	Overview of WADA activities and viewpoint on metrology (John Miller – WADA Lab Expert Group)	
10.40-11.00	Overview of CCQM activities in organic and bioanalysis (Robert Wielgosz – BIPM)	
11.00-11.20	Reference Materials for Doping Analysis (Lindsey Mackay - NMIA, Australia)	
11.20-11.40	Metrology support for doping analysis at the Rio Olympics (Bruno Garrido - INMETRO, Brazil)	
11.40-12.00	(Certified)RM requirements – availability and gap analysis (Peter van Eenoo – DoCo Lab, Belgium)	
12.00-12.30	Discussion 1 - (C) RM priorities for WADA Code compliance and accreditation	
12.30-13.00	Press Conference (Grand Salle, Pavillon de Breteuil)	
12.30-14.00	Lunch	
Session 2:	Measurement Uncertainty (MU) of Determinations of Threshold Substances (TS)	
	Co-Chairs: Robert Wielgosz/Peter van Eenoo	
14.00-14.20	"Bottom up" (GUM) approach to MU assignment for organic analytes (Chris Mussell - LGC, UK)	
14.20-14.40	"Top-down" approaches to MU assignment of Threshold Substance determinations	
	(Peter van Eenoo - DoCo Lab, Belgium)	
14.40-15.00	Practical Implementation of the GUM (Antonio Possolo - NIST, USA)	
15.00-15.30	Discussion 2 - "Best (Fit-for-purpose) practice" for assigning and applying MU for TS results	
15.30-16.00	Coffee Break	
Session 3:	Roles of Comparisons and EQAS studies in Measurement Systems	
	Co-Chairs: Steven Westwood/Victoria Ivanova	
16.00-16.20	CCQM Key comparisons and NMI measurement services for EQAS providers	
	(Lindsey Mackay - NMIA, Australia)	
16.20-16.40	EQAS in clinical chemistry: Linking routine analysis to reference laboratory results	
	(Anja Kessler - RfB, Germany)	
16.40-17.00	Expanding the role and use of WADA EQAS studies and results (Thierry Boghosian - WADA)	
17.00-17.30	Discussion 3 – Enhancing the value of WADA EQAS studies for anti-doping analysis	
18.00-21.00	Reception and buffet dinner at BIPM	





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Day 2: Thursday 29th September

METROLOGY FOR ANTI-DOPING ANALYSIS: EMERGING ISSUES

Session 4:	Measurement systems for quantitative biomolecule analysis – Part 1 Co-Chairs: Robert Wielgosz/Osquel Barroso
9.00-9.20	WADA Isoform assay for detecting and reporting doping with hGH (Martin Bidlingmaier - Endocrine Laboratory, LMU Munich, Germany)
9.20-9.40	Reference measurements for hGH (Andre Henrion - PTB, Germany)
9.40-10.00	Biomarker assay for hGH and the role of IGF-1 measurements
	(David Cowan – Doping Control Centre, King's College London, UK)
10.00-10.20	Reference measurements for IGF-1 (David Bunk - NIST, USA)
10.20-10.30	Discussion 4 – Measurement systems for quantitative protein analysis
10.30-11.00	Coffee Break
Session 5:	Measurement systems for quantitative biomolecule analysis - Part 2 Co-Chairs: Lindsey Mackay/Peter van Eenoo
11.00-11.20	Realising traceable, comparable results for steroid hormone analysis
	(Hubert Vesper - Centre for Disease Control, USA)
11.20-11.40	Measurement issues for detection by GC-IRMS of doping with steroids
	(Thomas Piper - Sport University Cologne, Germany)
11.40-12.00	Accreditation assessment of GC-IRMS
	(Detlef Thieme - IDAS, Germany)
12.00-12.20	Dealing with bias in measurements of endogenous substances
	(Elvar Theodorsson - Clinical and Experimental Medicine, University of Linköping, Sweden)
12.20-12.40	Detection systems for gene doping (Anna Baoutina - NMIA, Australia)
12.40-13.00	Discussion 5 – Standards and Metrology for Emerging Analytical Challenges
13.00-14.00	Lunch
Session 6:	Measurement support for qualitative analysis
	Co-Chairs: Steven Westwood/Detlef Thieme
14.00-14.20	Determining and controlling the LOD of methods for qualitative organic analysis (Steve Ellison - LGC, UK)
14.20-14.40	Detection of doping with peptide non-Threshold Substances
	(Mario Thevis -Sport University Cologne, Germany)
14.40-15.00	Determination of the decision limit CC- α and detection capability CC- β for analytical
	methods based on mass spectrometry (Corinne Buisson -AFLD, France)
Session 7:	Workshop Summary and Recommendations
	Panel to lead discussion
15.00-15.30	Discussion 6 - Review of recommendations for metrology support of anti-doping analysis
15.30-15.45	Summary of Workshop and Recommended Outcomes
	Co-Chairs: Olivier Rabin, WADA/Robert Wielgosz, BIPM

Coffee Break and Close