BIPM Capacity Building & Knowledge Transfer Programme

2017 "Sound beginning in the CIPM MRA" course

COURSE ACTIVITIES AGENDA

Course dates: 13 to 24 November, 2017 Location: BIPM, Sèvres, France

Date	Торіс	Outline of content	Instructors	
9:00 am	Registration of the participants			
Day 1 Monday Nov. 13	Global Quality infrastructure and its key components	Welcome and opening	Dr Martin Milton	
		General intro to the course content	Mr Chingis Kuanbayev	
		Global QI: General overview	Mr Andy Henson	
		Importance of Quality Infrastructure	Dr Clemens Sanetra	
		Role of Metrology (BIPM)	Mr Andy Henson	
		Role of Accreditation (ILAC)	Mr Laurent Vinson	
		Role of Legal metrology (OIML)	Mr Ian Dunmill	
		Case study: QI Practical examples & Roles and responsibilities	Dr Clemens Sanetra	
		Free discussion	Instructors	
17:00 pm	End of day 1		•	
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9:00 am	-	<i>Metre Convention:</i> Interactions with Member States and Associates	Dr Martin Milton	
		CIPM MRA and its role in the QI	Mr Andy Henson	
	Introduction to the Metre	Roles of Designated Institutes	Ms Sally Bruce	
		CIPM Requirements and documentation	Mr Andy Henson	
Day 2	Convention, the CIPM	JCRB: inter-regional CMC review process	Mr Nikita Zviagin	
Day 2	MRA and its role in the wider quality infrastructure	Introduction of the KCDB	Dr Susanne Picard	
Nov 14		KCDB and Comparisons	Dr Susanne Picard	
NOV. 14		KCDB and CMCs	Dr Stephanie Maniguet	
		Statistics on the KCDB	Mr Nikita Zviagin	
		KCDB 2.0	Dr Susanne Picard	
		Case study: Impacts of the CIPM MRA	Mr Jason Koehn	
		Free discussion	Instructors	
17:00 pm	End of day 2			
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9:00 am	Quality management systems Regional metrology organization approaches and specifics	of ISO/IEC 17025	Mr Sean MacCurtain	
Day 3 Wednesday Nov. 15		CIPM requirements and documentation on quality system	Mr Andy Henson	
		AFRIMETS approach in quality systems and specifics	Prof. Noha Khaled	
		APMP approach in quality systems and specifics	Dr Ilya Budovsky	
		COOMET approach in quality systems and	Dr Andreas Odin	
		GULFMET approach in quality systems and specifics	Mr Mohammed Ahmed Al Mulla	

Date	Торіс	Outline of content	Instructors
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		SIM approach in quality systems and specifics	Ms Sally Bruce
		Lase study: How to organize a metrological laboratory	Mr Zijad Dzemic
		Case study: How to establish a quality system acceptable to RMO	Mrs Jessica Chavarría Sánchez
		Group work on Quality: Establishing metrology laboratory	Mr Zijad Dzemic Mrs Jessica Chavarría Sánchez
17:00 pm	End of day 3	1166 (13643510)	Janchez
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9:00 am		CIPM Requirements and documentation on comparisons	Mr Chingis Kuanbayev
Day 4 Thursday	Measurement comparisons and Calibration and measurement capabilities (CMCs)	Specific guidelines for comparisons and CMCs in Electricity and Magnetism	Dr Ilya Budovsky
		Specific guidelines for comparisons and CMCs in Chemistry and Biology	Dr Angelique Botha
		Specific guidelines for comparisons and CMCs in Mass and related quantities	Dr Stuart Davidson
		Specific guidelines for comparisons and CMCs in Thermometry	Dr Karen Garrity
		Measurement comparisons (Planning and monitoring)	Dr Carine Michotte
<i>NOV.</i> 16		Measurement comparisons (Calculation of reference values and associated uncertainties)	Dr Richard Davis
	Focus on Comparisons	Case study: How to participate effectively in comparisons	Mrs. Manana Gelovani
		Group work on Comparisons: How to participate in comparisons? How to pilot a comparison? <i>Free discussion</i>	Dr Ilya Budovsky Mrs. Manana Gelovani
17:00 pm	End of day 4		·
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9:00 am	Measurement comparisons and Calibration and measurement capabilities (CMCs)	CIPM Requirements and documentation on CMCs	Mr Nikita Zviagin
		Specific guidelines for comparisons and CMCs in Ionizing Radiation	Dr Liza Karam
		Specific guidelines for comparisons and CMCs in Length	Dr Andrew Lewis
		Measurement traceability	Mr Andy Henson
Day 5 Friday		Developing uncertainty budgets including consistency with supporting evidence	Dr Antonio Possolo
Nov. 17		Submission of CMCs for inter-regional review through the JCRB	Mr Nikita Zviagin
	Focus on CMCs	Case study: From drawing CMCs to publication (practical examples)	Dr Ilya Budovsky
		Group work on CMCs: How to prepare CMCs and how to modify it?	Dr Andrew Lewis Dr Ilya Budovsky
17:00 pm	End of day 5	1.00 4100400101	1
Day 6 Saturday Nov. 18	Homework: projects of	on Quality Systems, Comparisons and CMCs	Participants
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Date	Торіс	Instructors			
0,00 am					
Day 7	CIDT "Hitting the target" session	Prof. Philip N. Dearden			
Nov. 20	Lah tour: Mass Watt halance	Dr Michael Stock			
17:00 nm	End of day 7	DI Michael Stock			
11100 pm					
9:00 am					
Day 8 Tuesday Nov. 21	CIDT "Hitting the target" session	Prof. Philip N. Dearden			
	Lab tour: TAI, Electricity	Dr Felicitas Arias Dr Michael Stock			
17:00 pm	End of day 8				
0.00					
9:00 am Day 9 Wednesday Nov. 22	CIDT "Hitting the target" session	Prof. Philip N. Dearden			
	Lab tour: IR, Chemistry	Dr Steven Judge Dr Robert I. Wielgosz			
17:00 pm	End of day 9				
0.00 am					
9:00 am	CIDT "Hitting the target" session wrap up	Prof. Philip N. Dearden			
	Overview of the course	Mr Andy Henson			
	Project presentation: QS, Comparisons and CMCs (20 min/project)	Group A			
Day 10 Thursday	Brainstorming on implementation plans	Mr Andy Henson Prof. Philip N. Dearden			
Nov. 23	Project presentation: QS, Comparisons and CMCs (20 min/project)	Group B			
	Brainstorming on implementation plans	Mr Andy Henson Prof. Philip N. Dearden			
	Project presentation: QS, Comparisons and CMCs (20 min/project)	Group C			
	Brainstorming on implementation plans	Mr Andy Henson Prof. Philip N. Dearden			
17:00 pm	End of day 10				
0.00		Course D			
9:00 am	Project presentation: QS, Comparisons and CMCs (20 min/project)	Group D			
	Brainstorming on implementation plans	Prof. Philip N. Dearden			
	Project presentation: QS, Comparisons and CMCs (20 min/project)	Group E			
Day 11 Wednesday Nov. 24	Brainstorming on implementation plans	Mr Andy Henson Prof. Philip N. Dearden			
	Free discussion, Course wrap up	Mr Andy Henson Prof. Philip N. Dearden			
	Diploma ceremony	CIPM Member Mr Luc Erard			
17:00 pm	Close of the course				