

BIPM Capacity Building & Knowledge Transfer Programme

2019 CBKT course: Optimizing the CIPM MRA - the KCDB 2.0

AGENDA

Course dates: 4 to 8 November 2019

Location: BIPM, Sèvres

Date	Topic	Activity	Outline of content	Instructors		
9:00 am	Introduction to the CIPM MRA and its mechanisms	Registration				
Day 1 Monday Nov. 4		Lectures	Welcome and opening		Dr Martin Milton	
			General introduction to the course content		Mr Chingis Kuanbayev	
			The BIPM		Dr Martin Milton	
			CIPM MRA and its role in the QI		Mr Andy Henson	
			CIPM requirements/metrological traceability		Dr Sten Bergstrand	
			Outcomes of the CIPM MRA review		Dr Gert Rietveld	
		Case study:	CCEM CMC review approaches: experiences on reducing workload		Dr Gert Rietveld	
		Group work:	What are the things you do (can do) to reduce the workload?		Dr Lucas Di Lillo	
		KCDB 2.0 Demonstration:	Search on CMCs, search on comparisons		SP, SM, CK, SB	
		Group Work:	Test searching		SP, SM, CK, SB	
17:00 pm			Wrap up			
			Homework:		Get started on the KCDB 2.0	
		End of day 1				
9:00 am	Introduction to the KCDB (KCs, SCs, CMCs)	Lectures	CCEM webpage/strategy/guidelines/membership	Dr Michael Stock		
Day 2 Tuesday Nov. 5			CCM webpage/strategy/guidelines/membership		Dr Hao Fang	
			Introduction to KCDB		SP, SM, CK, SB	
		KCDB 2.0 Demonstration:	Environment and User accounts (WRITER, TC-CHAIR, REVIEWER)		SP, SM, CK, SB	
		Group work:	Creation of user account		SP, SM, CK, SB	
		17:00 pm		Wrap up		
			Lab visit:	Mass, Kibble balance		Dr Michael Stock
			Lectures	Intra-regional CMC review process + CIPM requirements		Dr Sten Bergstrand
				Inter-regional CMC review process + CIPM requirements		
			KCDB 2.0 Demonstration:	WRITER: - Preparing new CMCs, including supporting evidence - Updating existing CMCs - Uncertainty table		SP, SM, CK, SB
		Group work:	Get acquainted with the KCDB 2.0 work space. Write at least one new CMC and update one CMC and SAVE as draft		SP, SM, CK, SB	
17:00 pm		Wrap up				
		End of day 2				

Date	Topic	Activity	Outline of content	Instructors
Day 3 Wednesday Nov. 6	Calibration and measurement capabilities	<i>Lectures</i>	CCQM webpage/strategy/guidelines/membership	Dr Robert Wielgosz
		<i>Case study:</i>	CCQM Fast Track CMC review approach	Dr Angelique Botha
		<i>KCDB 2.0 Demonstration:</i>	Intra-RMO review: – submit CMC, TC Chair space, choose reviewer, review CMC, send back CMC for revision, accept CMC	SP, SM, CK, SB
		<i>Group work:</i>	First registration/ Practical exercise - developing CMCs	SP, SM, CK, SB
		<i>Wrap up</i>		
		<i>Lecture</i>	CCRI webpage/strategy/guidelines/membership	Dr Steven Judge
		<i>Lab visit:</i>	RI, Chemistry	Dr Steven Judge Dr Robert Wielgosz
		<i>KCDB 2.0 Demonstration:</i>	Inter-RMO review: – submit CMC, TC Chair space, choose reviewer, review CMC, send back CMC for revision, accept CMC, vote	SP, SM, CK, SB
		<i>Group work:</i>	Get acquainted with TC Chair JCRB space for INTER-RMO reviews. Group work writer/reviewer/TC Chair 3 groups × 3 RMOs	SP, SM, CK, SB
		<i>Wrap up</i>		
17:00 pm		End of day 3		
Day 4 Thursday Nov. 7	Measurement comparisons	<i>Lecture</i>	CCT webpage/strategy/guidelines/membership	Dr Susanne Picard
		<i>Case study:</i>	CCT approaches in CMC review and reducing the workload	Dr Andrea Peruzzi
		<i>Lectures</i>	CIPM requirements and documentation on comparisons	Mr Chingis Kuanbayev
			Measurement comparisons - Calculation of reference values and associated uncertainties	Dr Richard Davis
			<i>Metrologia</i>	Dr Janet Miles
		<i>Lab visit:</i>	TAI, Electricity	Dr Patrizia Tavella Dr Michael Stock
		<i>Lectures</i>	CCL webpage/strategy/guidelines/membership	Dr Gianna Panfilo
			CCPR webpage/strategy/guidelines/membership	Dr Joële Viallon
		<i>KCDB 2.0 Demonstration:</i>	Comparison registration	SP, SM, CK, SB
		<i>Group work:</i>	Registration and completion of comparisons. Submission of comparisons and publication in the KCDB.	SP, SM, CK, SB
<i>Wrap up</i>				
17:00 pm		End of day 4		
Day 5 Friday Nov. 8	Brainstorming	<i>Lectures</i>	CCAUV webpage/strategy/guidelines/membership	Dr Gianna Panfilo
			BIPM website	Dr Janet Miles
		<i>KCDB 2.0 Demonstration:</i>	KCDB 2.0 Statistics	Dr Susanne Picard Dr Stephanie Maniguet
		<i>Presentation of the homework</i>	Final preparation	Participants, AH, CK, SP
			Brainstorming on "Get started on the KCDB 2.0"	Participants, AH, CK, SP
		Free discussion, Course wrap up	Participants, AH, CK, SP	
Diploma ceremony and Group photo				
17:00 pm		Closure of the course		

*BIPM KCDB Instructors and CBKT team

AH – Mr Andy Henson
SP - Dr Susanne Picard
SM - Dr Stephanie Maniguet
CK - Mr Chingis Kuanbayev
SB - Dr Sten Bergstrand