

19th Meeting of the Directors of NMIs and Member State Representatives

Day 1 - Wednesday 18 th October 2017 at 09:00		
09:00 to 10:30 - Update from the BIPM and CIPM <i>The agenda for the first day addresses current issues relating to the BIPM and CIPM and also includes advanced information about plans for the 26th CGPM in 2018.</i>		
	<ul style="list-style-type: none"> • Welcome and update from the CIPM (Barry Inglis) • Highlights from the work of the BIPM (Martin Milton) • Progress with voluntarily-funded Capacity-Building activities (Andy Henson) • Capacity Building Projects supporting Metrology for Safe Food and Clean Air (Robert Wielgosz) • The BIPM financial position (Martyn Sene) and summary of the reforms of the BIPM Pension Fund (Luc Erard) <p style="text-align: center;">Discussion followed by coffee</p>	
11:30 to 12:00 - The BIPM Strategy to 2025 <i>The BIPM is developing a "Strategy to 2025" for approval by the CIPM prior to the development of its Work Programme for 2020-2023. It will be open for consultation through the BIPM website. The strategy will be described along with a summary of comments received. These will be the basis for discussion at the 26th CGPM in 2018, and will be presented for discussion.</i>		
	<ul style="list-style-type: none"> • Preview of the "BIPM Strategy to 2025" (Martin Milton) <p style="text-align: center;">Discussion</p>	
12:00 to 13:00 - Implementation of the Review of the CIPM MRA <i>The review of the implementation and operation of the CIPM-MRA has been a major point for discussion during 2015 and 2016. The recommendations have now been agreed, and progress in addressing them will be presented.</i>		
	<ul style="list-style-type: none"> • The CIPM Working Group on the Review of the MRA (Barry Inglis) • Progress with KCDB 2.0 • Strategic developments at the JCRB <p style="text-align: center;">Discussion followed by lunch</p>	

14:15 to 15:30 - Progress towards the re-definition of the base units of the SI		
<p><i>Work has been underway at many NMIs and the BIPM to enable a possible re-definition of the base units of the SI at the 26th CGPM to be held on 13th to 16th November 2018. This item will provide an update on the latest progress and a summary of the discussions at the CCU and the CIPM. There will be time available to discuss the proposed timetable for the changes.</i></p>		
	<ul style="list-style-type: none"> • Updates from the CCU and the CIPM (Speakers to be decided) • Update on promotion of the re-definition of the SI (Fiona Auty, NPL) <p>Discussion followed by tea/coffee</p>	
16:10 to 17:30 - Plans for the 26th CGPM (2018)		
<p><i>The 26th CGPM will be held on 13th to 16th November 2018. This item will provide the opportunity to share information about the plans for it, and provide some briefing on institutional issues that can be anticipated ahead of it.</i></p>		
	<ul style="list-style-type: none"> • Provisional timetable for the 26th CGPM and draft Resolutions (Martin Milton) • Timetable for the CIPM Election process (Jim McLaren) • Advanced briefing on institutional issues that may arise at the 26th CGPM (Andy Henson) • Outline of financial models for the BIPM Work Programme (2020-2023) and Dotation Considerations (Martin Milton) <p>Discussion</p>	
<p>Close of Day 1 followed by</p> <p>Reception in the BIPM Garden</p>		

Day 2 - Thursday 19 th October 2017 at 08:45		
08:45 to 09:00 – Welcome <i>The second day will focus on topics of particular interest to NMI Directors with significant time for debate and discussion. The programme was developed by a panel of NMI Directors chaired by Alan Steele (NRC).</i> <i>Each session will be introduced by context-setting presentations to last approximately 20 min, followed by a lively and engaging moderated discussion among all participants.</i>		
	<ul style="list-style-type: none"> • Welcome and opening of Day 2 (Alan Steele) 	
09:00 to 10:30 – Talking to Governments: New Approaches to Impact Analysis <ul style="list-style-type: none"> • Topic to be led by Robert Gunn (NPL) • Key questions: <ul style="list-style-type: none"> ○ What do government reviews and requests for information to NMIs look like across nations? ○ Would a collaborative “internationalized” approach to understanding the impact of metrology support national agendas and help individual NMIs explain / justify the role to governments? 		
	<ul style="list-style-type: none"> • Opening presentation: <i>The Impact of Public Support for Innovation on Firm Outcomes</i> (Mike King, NPL) • Panel discussion including: Mohamed Amer (NIS); D. K. Aswal (NPLI India); Sergey Golubev (Rosstandart); Thomas Grenon (LNE); Claudia Santo (LATU) <p style="text-align: center;">Discussion followed by coffee</p>	
11:10 to 13:00 – Advanced Manufacturing, Digitization, and the Internet of Things <ul style="list-style-type: none"> • Topic to be led by Joern Stenger (PTB) • Key question: <ul style="list-style-type: none"> ○ These big themes and novel approaches to innovation are discussed widely by Governments, what is the role of measurement science in bringing them into practice in our various economies? 		
	<ul style="list-style-type: none"> • Opening presentation: <i>Digitalization and Industry 4.0</i> • Panel discussion including: Takashi Usuda (NMIJ), Hector Laiz (INTI) <p style="text-align: center;">Discussion</p> <ul style="list-style-type: none"> • Presentation on the <i>International Metrology Resource Registry</i> (Bob Hanisch, NIST) <p style="text-align: center;">Discussion Followed by Lunch</p>	

14:15 to 15:30 – Quantum Metrology: New Science and New Roles for NMIs		
<ul style="list-style-type: none"> • <i>Topic to be led by Carl Williams (NIST; Chair of BIPM Workshop on Quantum Metrology)</i> • <i>Key questions:</i> <ul style="list-style-type: none"> ○ <i>How does the latest quantum physics link to metrology?</i> ○ <i>What research and development is happening at NMIs?</i> ○ <i>How will the role of NMIs evolve when primary standards can be directly realized outside NMIs and calibration services are no longer required to establish the traceability chain?</i> 		
	<ul style="list-style-type: none"> • Opening presentation: <i>Summary of the BIPM Quantum Metrology Workshop</i> • Panel discussion including: Sang-Ryoul Park (KRISS) and Hector Laiz (INTI) <p style="text-align: center;">Discussion followed by tea/coffee</p>	
16:10 to 17:15 – Follow-on Open Discussion of Topics from Day 1 and Day 2		
<ul style="list-style-type: none"> • <i>Session to be led by Alan Steele (NRC).</i> • <i>The session will be open for discussion of any points remaining from the previous sessions and prepared or impromptu introductions to topics of interest that might warrant deeper discussion at future meetings.</i> 		
	<ul style="list-style-type: none"> • Topics to introduce and consider might include: <ul style="list-style-type: none"> ○ Consequences of implementing the new definitions – what is the NMI perspective? ○ Metrology in support of regulation: a Policy Tool? ○ Metrology in the context of Energy Challenges ○ Succession Planning at NMIs ○ The evolving role of the Regional Metrology Organizations • <i>Meeting Participants interested in introducing a topic, perhaps with one or two slides as a visual aid, are encouraged to contact Alan Steele in advance to help build the agenda</i> <p style="text-align: center;">Discussion</p>	
17:15 to 17:30 – Announcements and Close of Meeting.		
<p><i>Topic lead Alan Steele (NRC; Chair of the NMI Day)</i></p> <p><i>The floor will be open for comments on the success of the agenda and format used for the last two days, and proposals for future meetings.</i></p>		
	<p style="text-align: center;">Discussion followed by close of meeting</p>	