

**Agenda: BIPM Workshop on Global to Urban Scale Carbon Measurements**  
**30 June -1 July 2015**  
**BIPM, Sevres**

**Day 1 (Tuesday 30.06.2015) : Pavillon du Mail**

	<u>min</u>
<b>9:00 Session I: Introduction and Keynote Presentations</b>	
<b>Chair: M. Milton (BIPM)</b>	
Registration	15
Opening address by the BIPM Director	<i>M. Milton (BIPM)</i> 15
Global Measurements of Essential Climate Variables	<i>A.Becker (DWD)</i> 30
Tracking the World's Carbon	<i>J. Butler (NOAA)</i> 30
Uncertainties and priorities in greenhouse gas inventories	<i>W. Irving (US EPA)</i> 30
<b>11:00 Coffee and Tea</b>	<b>30</b>
<b>11:30 Session II: Carbon measurement and other related climate variables: Global systems, principals and traceability</b>	
<b>Chair: M. Milton (BIPM)</b>	
Background atmospheric carbon measurement and other related ECVs in WMO-GAW	<i>O.Tarasova (WMO)</i> 20
Gas metrology for carbon surface measurements and other related ECVs	<i>R. Wielgosz (BIPM)</i> 20
Space-based observations of Megacity GHG emissions	<i>C. Miller (JPL)</i> 20
<b>12:30 Lunch</b>	<b>90</b>
<b>14:00 Reconvene</b>	
Validation and calibration of GHG satellite observations by remote sensing measurements	<i>T. Warneke (TCCON)</i> 20
Inverse estimates of greenhouse gas sources and sinks using regional ground-based measurement networks	<i>K. Davis (PSU)</i> 20
Impact of GHGs: Measuring global temperature change	<i>P. Thorne (GRUAN)</i> 20
Presentation of presubmitted abstracts and discussion identifying: Priority of issue; timescale for action; groups best placed to act	60
<b>16:00 Coffee and Tea</b>	<b>30</b>
<b>Chair: J. Burston (NPL)</b>	
<b>16:30 Session III: New Challenges - Metrology and Standard needs for GHG Emissions from Megacities and Emission Inventories</b>	
A Megacity framework for GHG measurements	<i>J. Whetstone (NIST)</i> 30
Challenges and opportunities in non-CO <sub>2</sub> GHG measurements and standards: Natural gas case study	<i>S. Hamburg (EDF)</i> 30
Introduction to Day 2 of meeting	<i>J. Whetstone/J. Burston</i> 15
<b>17:45 Closure of Day 1</b>	

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**18:30 Leave for Workshop Dinner**

**Day 2 (Wednesday 01.07.2015)**

**Chair: J. Whetstone (NIST)**

**9:00 Session IIIa: Megacities and Metrology Needs for Supporting Greenhouse Gas Mitigation - Urban Greenhouse Domes (Break-out session: Pavillon du Mail)**

Introduction to breakout session *J. Whetstone (NIST)* 15

A first estimate of CO<sub>2</sub> emissions from the Paris city using an array of atmospheric CO<sub>2</sub> measurement sensors *P. Ciaï (LSCE)* 25

The Megacities Carbon Project *R. Duren (JPL)* 25

Towards a Megacity project in Sao Paulo, Brazil *M.F. Andrade (USP)* 25

**10:30 Coffee and Tea** 30

**11:00 Reconvene**

Presentation of presubmitted abstracts and discussion identifying: 60  
Priority of issue; timescale for action; groups best placed to act

**12:00 Lunch** 60

**13:00 Reconvene**

Discussion on: future role of NMIs; potential barriers; 90

**14:30 Closure of the session**

**Coffee and Tea** 30

**Day 2 (Wednesday 01.07.2015)**

**Chair: J. Burston (NPL)**

**9:00 Session IIIb: Standards for GHG Emission Inventories (Break-out session: Pavillon de Breteuil)**

Introduction to breakout session *J. Burston (NPL)* 15

The Global Protocol for Community-Scale Greenhouse Gas emission inventories (GPC) *M. van Staden (ICLEI)* 25

Monitoring carbon emissions from forests and wood products *M. Lindner (EFI)* 25

Measurable, Reportable and Verifiable Greenhouse Gas Emissions: *B. Koffi-Lefevre (JRC-ISPRA)* 25  
New Challenges when Downscaling Global to Urban Inventories

**10:30 Coffee and Tea** 30

**11:00 Reconvene**

Presentation of presubmitted abstracts and discussion identifying: 60  
Priority of issue; timescale for action; groups best placed to act

**12:00 Lunch / Déjeuner** 60

**13:00 Reconvene**

Discussion on: future role of NMIs; potential barriers; 90

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<b>14:30</b>	<b>Closure of the session</b>		
	<b>Coffee and Tea (Change meeting room)</b>		<i>30</i>
	<b>Chair: M. Milton (BIPM)</b>		
<b>15:00</b>	<b>Session IV: Report Back (Pavillon du Mail)</b>		
	Global systems, principals and traceability- report back	<i>R. Wielgosz (BIPM)</i>	<i>10</i>
	Megacities, Mitigation, Metrology - report back	<i>T. Wong (NIST)</i>	<i>10</i>
	Standards for Emission Inventories - report back	<i>M. Sene(NPL)</i>	<i>10</i>
	<b>Chair: M. Milton (BIPM), with J. Burston (NPL) and J. Whetstone (NIST)</b>		
<b>15:30</b>	<b>Session V: Engaging with key stakeholders in low carbon activity</b>		
	Working with key stakeholders on metrological issues	<i>J. Whetstone (NIST)</i>	<i>15</i>
	Using a carbon themed Centre as a mechanism for interacting with government	<i>J. Burston (NPL)</i>	<i>15</i>
	Grouped issues and questions discussion (requested at the end of Day 1)	<i>J. Burston (NPL)</i>	<i>45</i>
<b>16:45</b>	<b>Closure of the meeting</b>		