



Bureau International des Poids et Mesures

G05.07

BIPM Report to the 5th EURAMET General Assembly

Andy Henson, International Liaison Officer, BIPM



5th EURAMET General Assembly,
Sarajevo, May 7th, 2011

BIPM: Director, Collaborators

**Andrew Wallard retired at the end of 2010, and
Michael Kühne took up his post as Director in January 2011**

Under M. Kühne's supervision, the Director's Office comprises:

- Two permanent BIPM staff, the International Liaison Officer (A. Henson) and the KCDB Coordinator (C. Thomas),
- The JCRB Executive Secretary (O. Altan on secondment from UME, Turkey), and
- Presently a guest from Sep 2010 to Nov 2011 (Takashi Usuda, on secondment from NMIJ, Japan) working on the economic impact of international metrology.

This structure strengthens the BIPM liaison activities, especially those linked to the JCRB and the CIPM MRA management



An important change of staff in the BIPM Scientific Departments:

Richard Davis retired in October 2010 and Alain Picard became the new Director of the Mass Department

Changes in the CIPM

CIPM (October 2010)

- Prof. E. Göbel resigned as President CIPM; stays on CIPM
- Dr. B. Inglis succeeded as President CIPM
- Dr. W. May elected as Vice President CIPM
- Dr. Duan Yuning (NIM China), new member CIPM

Membership

55 Member States of the BIPM, and 33 Associate States and Economies of the General Conference:

Member States

Argentina
 Australia
 Austria
 Belgium
 Brazil
 Bulgaria
 Cameroon
 Canada
 Chile
 China
 Croatia
 Czech Republic
 Denmark
 Dominican Republic
 Egypt
 Finland
 France
 Germany
 Greece
 Hungary
 India
 Indonesia
 Iran, Islamic Republic of
 Ireland
 Israel
 Italy
 Japan
 Kazakhstan
 Kenya
 Korea, DPR of
 Korea, Republic of
 Malaysia
 Mexico
 Netherlands
 New Zealand
 Norway
 Pakistan
 Poland

Portugal
 Romania
 Russian Federation
 Saudi Arabia
 Serbia
 Singapore
 Slovakia
 South Africa
 Spain
 Sweden
 Switzerland
 Thailand
 Turkey
 United Kingdom
 United States of America
 Uruguay
 Venezuela, Boliv. Rep. of

Associates of the CGPM

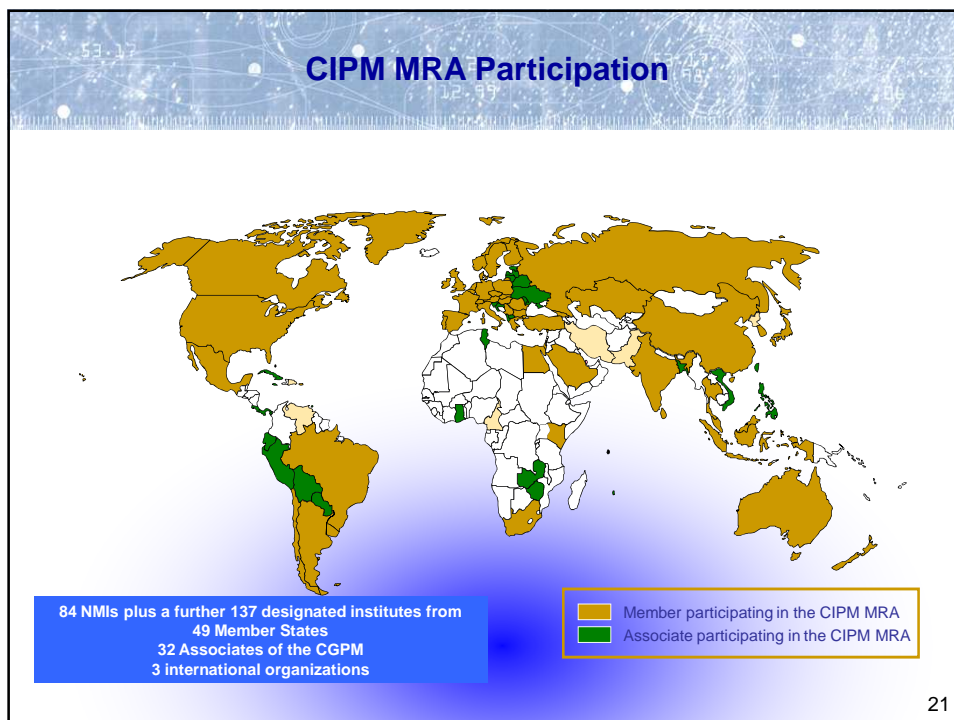
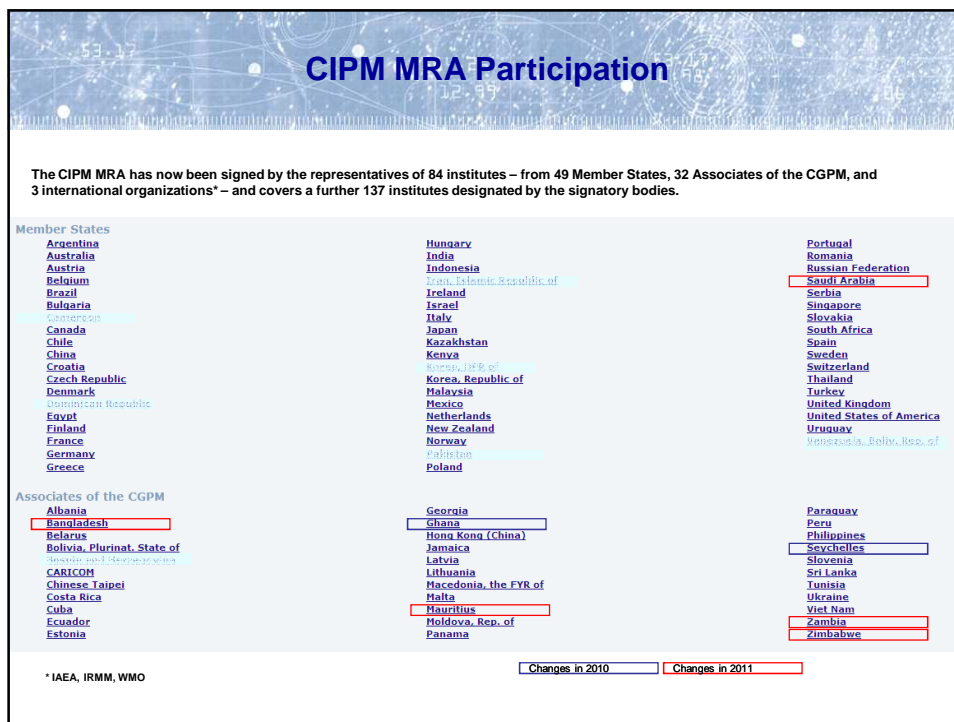
Albania
 Bangladesh
 Belarus
 Bolivia, Plurinatl. State of
 Bosnia and Herzegovina
 CARICOM
 Chinese Taipei
 Costa Rica
 Cuba
 Ecuador
 Estonia

Georgia
 Ghana
 Hong Kong (China)
 Jamaica
 Latvia
 Lithuania
 Macedonia, the FYR of
 Malta
 Mauritius
 Moldova, Rep. of
 Panama

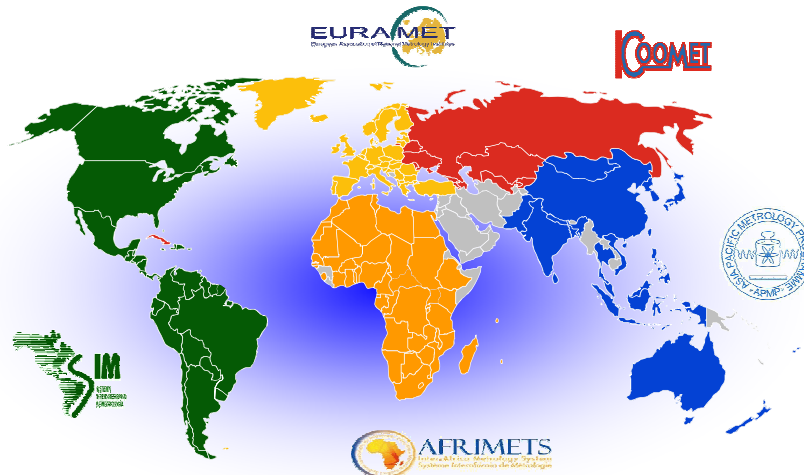
Paraguay
 Peru
 Philippines
 Seychelles
 Slovenia
 Sri Lanka
 Tunisia
 Ukraine
 Viet Nam
 Zambia
 Zimbabwe

Changes in 2010

Changes in 2011



Regional Metrology Organizations



Potential new Member States and Associates

BIPM ACTIONS

- BIPM continued working with RMOs, IGOs and organizations on raising awareness about the CIPM MRA.
- The BIPM is working with a number of States interested in participation (Member State or Associate status). Among them are:

Middle East

- **Bahrain**
- Kuwait
- Oman
- Qatar
- Yemen
- Syria

South America

- Colombia

Africa

- Tunisia (Associate to Member)
- Botswana
- Nigeria

Europe

- Luxembourg
- Montenegro

Eastern Europe & Central Asia

- Azerbaijan

The BIPM scientific activities regarding the CIPM MRA

The BIPM currently conducts more than 80 on-going BIPM key comparisons (series of bilateral comparisons at the BIPM or on-site at NMIs)

- They cover the fields of radioactivity, dosimetry, DC voltage, resistance and capacitance, and ozone measurements;
- The graphs of equivalence are regularly updated with some 35 new results added over the last year;
- This represents a continuous work: protocols, measurements, data analysis, reports, etc.

In addition, **the BIPM conducts and/or participates in a number of CC key comparisons.**

The BIPM is involved in the edition of many of the comparison reports through the CC executive secretariat work, even in fields in which the BIPM has no laboratory work.

The BIPM maintains the KCDB and checks the integrity of data published there. It has the unique international role of composing the extended graphs of equivalence corresponding to linkage of RMO key comparisons to CC key comparisons.

It maintains the list of the **BIPM calibration and measurement services**, published in the BIPM web site, and also available from the KCDB.

And the BIPM maintains its **Quality and Management System**.

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Directors & Member State meetings

NMI Directors meeting (25 May), MS Representatives (26 - 27 May)

- Programme of work ✓
- Budget to fund PoW ✗
 - Scenarios prepared and discussed
- Governance of the BIPM ✓
- Strategic plan for the BIPM ✓
- CIPM MRA

Minor changes to the CIPM-MRA

Proposed changes

- Use of "CIPM MRA" rather than "MRA" ✓
- Reflecting current terminology
 - "Members of the Metre Convention" in the CIPM MRA shall be understood as "States Parties to the Metre Convention and States and Economies Associates of the CGPM". ✗
- Updating References
 - ISO Guide 25 ▶ ISO/IEC 17025:2005, addition of ISO Guide 34:2009, ISO Guide 58 ▶ ISO/IEC 17011:2004 ✓
- Clarification of Note T7
 - Previously implied CMC only referred to the uncertainty ✓

Minor changes to the CIPM-MRA

Proposed changes

- Definition of CMC
 - Aligning with the long time converged definition (with ILAC) ✓
- Amending approval need to make changes to the CIPM MRA
 - Any amendment to the CIPM MRA shall be approved by consensus of the signatories (absence of formal objection). ✗

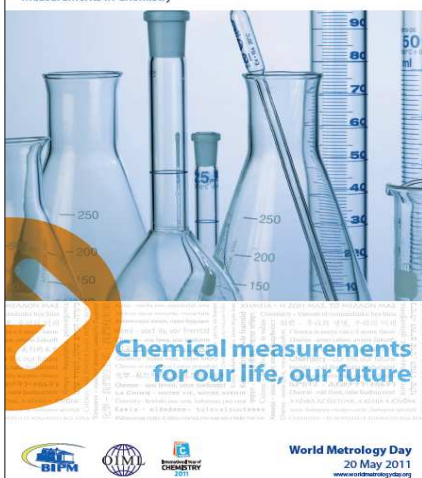
ILAC

Two key documents:

- ILAC P10: "ILAC Policy on Traceability of Measurement Results"
- Joint ILAC – BIPM Communication regarding the Accreditation of Calibration and Measurement Services of National Metrology Institutes

World Metrology Day 2011

Metrology Measurements in Chemistry



**Chemical measurements
for our life, our future**

World Metrology Day
20 May 2011
www.worldmetrologyday.org

Métrologie Mesures en chimie



**Les mesures en chimie
au service de notre vie,
notre avenir**

Journée mondiale
de la métrologie
20 mai 2011
www.worldmetrologyday.org

15 further translations, events for 23 countries, over 2600 poster downloads

2011 events and meetings

- ❑ **Workshop on Microbiology**
6 - 7 April 2011
- ❑ **5th CCM Conference on Pressure Metrology**
2 - 5 May 2011
- ❑ **Meeting of the CIPM**
24 May 2011
- ❑ **Meeting of NMI Directors**
25 May 2011
- ❑ **Informal Discussion between Government Representatives on the BIPM Programme of Work and Budget for 2013 to 2016**
26 – 27 May 2011
- ❑ **27th meeting of the JCRB**
14 – 15 September 2011
- ❑ **Meeting of the CIPM**
12 – 14 October 2011
- ❑ **24th meeting of the General Conference on Weights and Measures**
17 – 21 October 2011



Bureau International des Poids et Mesures

Thank you for your attention

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