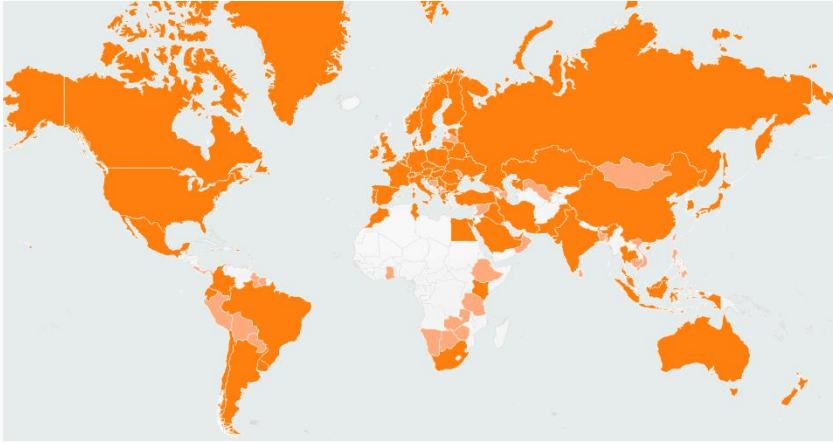


Report from the BIPM to EURAMET GA

Martin Milton
BIPM Director

Member States and Associates (May 2022)



- 63 Member States*
- 37 Associates of the CGPM
(States and Economies)

** The official term is "States Parties to the Metre Convention"; the term "Member States" is its synonym and used for easy reference.*



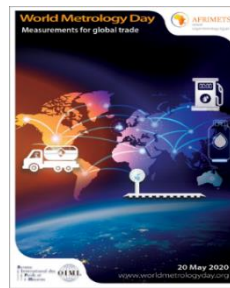
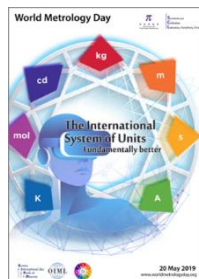
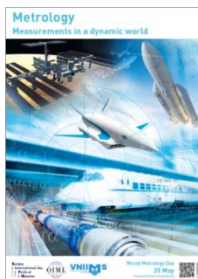
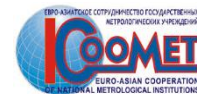
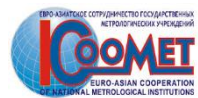
The CIPM MRA has been signed by representatives of:

- 100 Institutes
 - 63 Member States
 - 37 Associates
- 4 International organizations
(ESA, IAEA, JRC, WMO)
and covers plus 150 Designated Institutes

1 774 comparisons
1121 KCs, 653 SCs

25 733 CMCs
Peer-reviewed declarations

World Metrology Day



2016

2017

2018

2019

2020

2021

2022

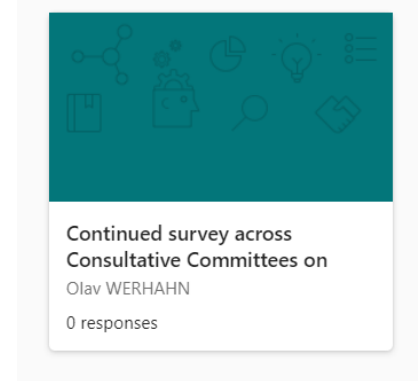
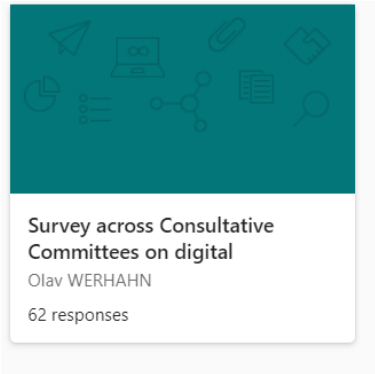
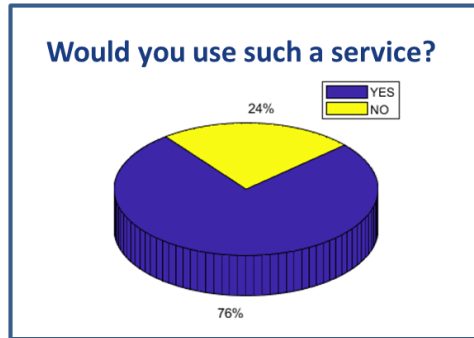
<http://www.worldmetrologyday.org/>

World Metrology Day



- The 2022 poster was designed by the **National Scientific Centre "Institute of Metrology", Ukraine** (in association with COOMET).
- *translations* into 44 *local* poster versions, plus French and English
- Listing of 28 events hosted by countries/institutions

Survey on **Digital transformation** for metrology



CCL Survey - Digitalised SI metre

Survey across Consultative Committees on digital transformations

CCAUV + CCEM
in one round

2nd run Survey across Consultative Committees on digital transformations

Remaining CCs in the next round

CBKT statistics

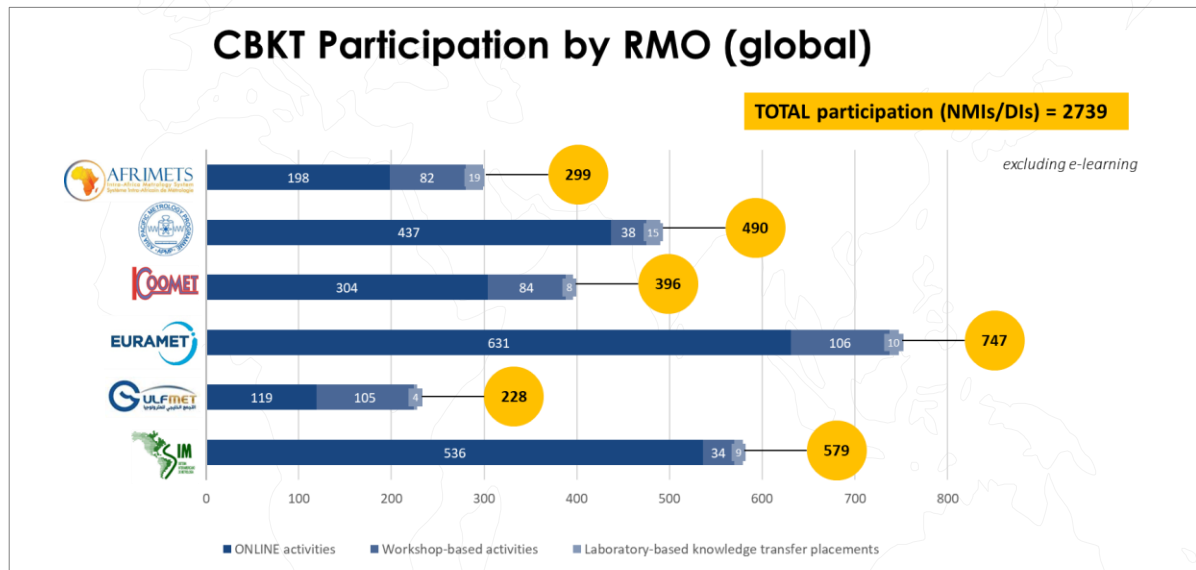
Events: Jan 2020-May 2022:

- 1 Workshop based course at the BIPM
- 2 project placements
- 5 webinars
- 15 technical exchanges (10 of them repeated in the afternoons to cover all time zones)

Participation: Jan 2020-May 2022:

- 2225 NMI/DI community
- 604 Accreditation community
- + 510 registered participants in e-learning

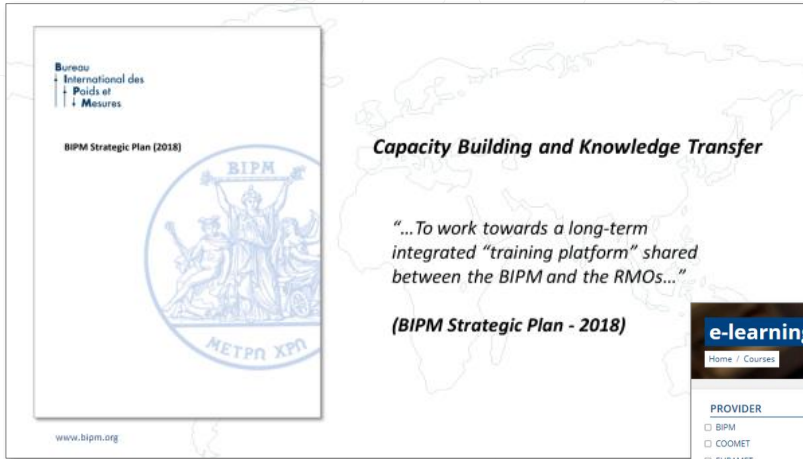
CBKT Participation by RMO (global)



Feedback collected from every course:

- without exception feedback highly positive
- presented in detail to the CIPM Secretary as part of the QMS review

e-Learning



Capacity Building and Knowledge Transfer

"...To work towards a long-term integrated "training platform" shared between the BIPM and the RMOs..."

(BIPM Strategic Plan - 2018)

The initiative meets the strategy for the BIPM set in 2018.

The screenshot shows the 'e-learning.bipm.org' website. The header includes the URL and a navigation bar with 'Home / Courses'. Below the header is a search bar with the text 'Search courses' and '7 results'. The main content area displays a grid of course cards. On the left, there are filters for 'PROVIDER', 'TOPIC AREA', 'COURSE ACCESS', and 'LANGUAGE'. The course cards include:

- CIPM MRA** (BIPM)
- COOMET - Coming Soon!** (COOMET)
- EURAMET - Coming Soon!** (EURAMET)
- GULFMET - Coming Soon!** (GULFMET)
- How to enter a CMC claim for ionizing radiation metrology** (BIPM)
- Metrology for Clean Air RT** (BIPM)
- Non Structure-Related Impurity Content in Organic Pure Materials** (BIPM)

Each card has a 'MORE DETAILS' button at the bottom.

e-Learning

*...accessible around the clock
and on any device*

The screenshot shows the e-learning.bipm.org website. At the top, there's a navigation bar with links: DASHBOARD, COURSE CATALOGUE, ABOUT US, and YOUTUBE. A user is logged in, as indicated by the text "You are not logged in. (Log in)". The main banner features a group photo of people holding certificates, with the CBKT logo and the text: "...aims to provide online assistance to the NMI community to strengthen their capabilities, including their involvement in the CIPM MRA mechanisms". Below the banner, there are five icons representing different resources: About the CBKT, KCDB help page, What is New?, BIPM YouTube, and OIML e_Learning. The main content area displays six course categories in a grid: BIPM COURSES (with the logo of the Bureau International des Poids et Mesures), ALL COURSES, CIPM MRA documents (with a table of documents), COOMET COURSES (with the COOMET logo), EURAMET COURSES (with the EURAMET logo), and GULFMET COURSES (with the GULFMET logo).

← → ↻ 🏠 🔒 e-learning.bipm.org 🔍 📄 ☆ ⚙️ 🔴

☰ DASHBOARD COURSE CATALOGUE ABOUT US YOUTUBE ▾

You are not logged in. (Log in)

CBKT
...aims to provide online assistance to the NMI community to strengthen their capabilities,
including their involvement in the CIPM MRA mechanisms

🎓 About the CBKT 📖 KCDB help page ★ What is New? 📄 BIPM YouTube 🎓 OIML e_Learning

Bureau International des Poids et Mesures
BIPM COURSES

ALL COURSES

CIPM MRA documents

COOMET
COOMET COURSES

EURAMET
EURAMET COURSES

GULFMET
GULFMET COURSES

Launched in April 2021
and expanded in January
2022 to allow RMOs to
publish their training
material

510 Users in the platform
– as of May 2022

e-Learning – “on boarding” for the RMOs

Training for RMO e-learning administrators and course creators was organized for:

- COOMET
- EURAMET
- GULFMET

Guideline document has been developed and communicated to RMOs.

Bureau
International des
Poids et
Mesures

CBKT guideline:

Publication of training material
on the BIPM e-learning platform

- guidance for participating RMOs

CBKT
v. 18/01/2022
<https://e-learning.bipm.org/>
BIPM

This guideline document has been developed to help RMO administrators and course creators who manage the RMO Sectors and publish the e-learning material (course) on the BIPM e-learning platform.

This document will guide you through the key features including how to assign copyright and all aspects of course registration.

Please note, this document may be periodically updated as experience increases and based the feedback we receive.

1. How to access to the RMO Sector

RMOs' appointed administrators and course creators can have access the RMO Sector and course management, after they have been assigned by their RMOs and allocated appropriate authority by the BIPM.

When you logged in, you will be presented with the landing page. To access to your RMO Sector **go to your RMO tile on the front page**, for example, **EURAMET COURSES** > and then select **Manage this category** command (see example, Figure 1).

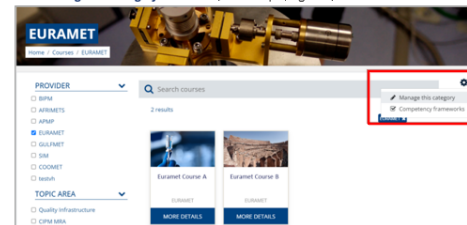
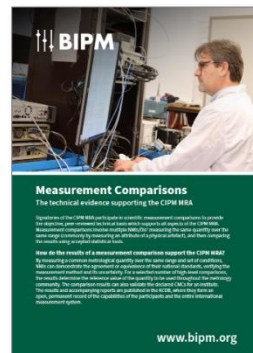
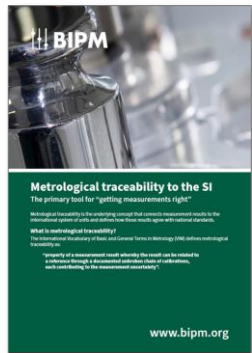
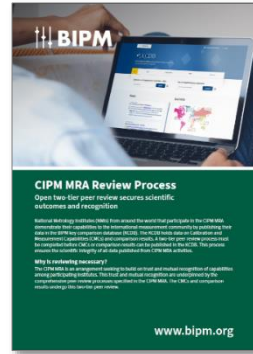
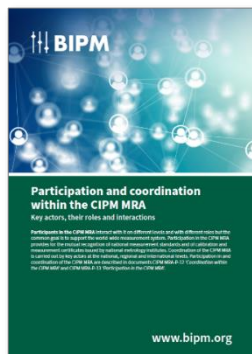
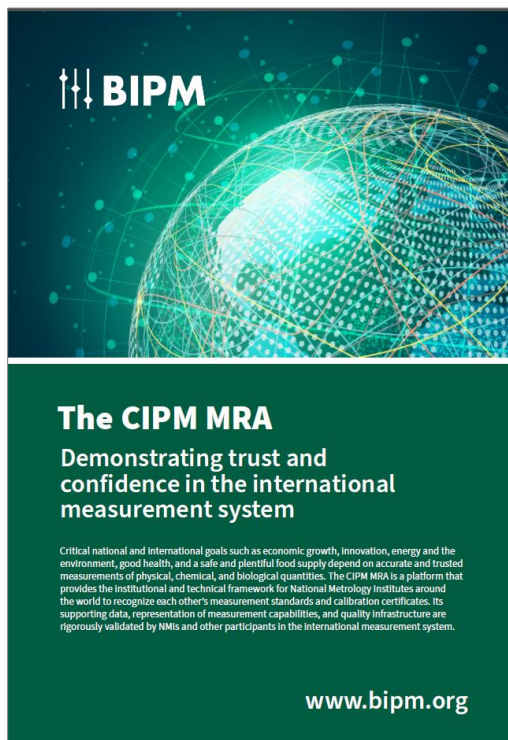


Figure 1. Manage category command

2. RMO Sector

The RMO Sector shows your RMO courses that available or that are in development. **RMOs can have access to manage and create courses only in their own RMO Sector.** The general functionalities available to sector administrators and course creators are identical except that the sector administrators have the permission to approve courses, and thus make them publicly visible on the platform (see Section 4).

The CIPM MRA brochures



The 27th meeting of the CGPM

At the

Palais des Congrès, Versailles

15th to 18th November 2022

Chaired by the

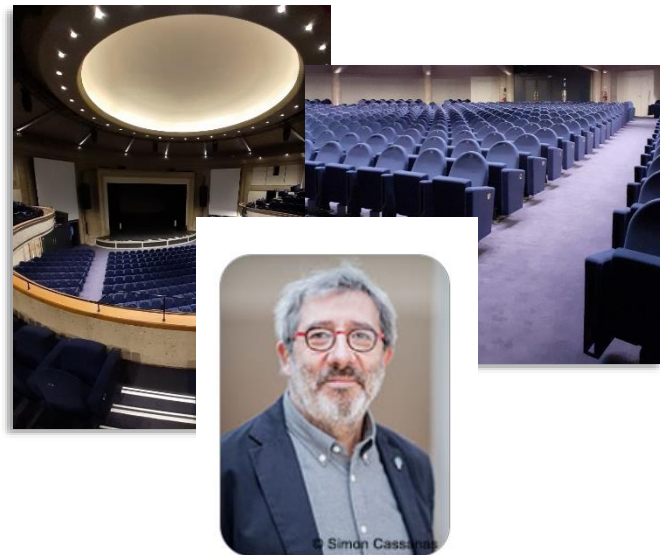
Président of the Académie des sciences

Prof Patrick Flandrin

Official convocation has been sent to

Embassies in Paris of States Parties and Associate
States and Economies

with copies to NMIs and State representatives accredited in
2018



Timetable proposed for the 27th meeting of the CGPM (2022)

v7b2

Tuesday 15th November	Wednesday 16th November	Thursday 17th November	Friday 18th November
Presentation of credentials (in person and online)	[09h15 - 10h30] Invited talk (#3) health/life sciences + Report from JCTLM Invited talk (#4) - Pandemic preparedness Liaison talk (#1) Report from CCRI	[09h15 - 10h30] Invited talk (#6) - Economic impact of QI on regulation Report from CCL Invited talk (#7) - Digital Transformation Liaison talk (#2)	[09h15 - 10h30] Invited talk (#10) - Implementing the rev'd SI Report from CCM Invited talk (#11) - Metrology for energy networks Report from CCEM
Coffee/Tea	Coffee/Tea (30 min)	Coffee/Tea (30 min)	Coffee/Tea (30 min)
[11h00 - 12h45] Opening session Opening speeches Agreement of "Special procedure" Report by the CIPM President Report by the BIPM Director	[11h00 - 12h45] Reporting session Report on BIPM Finance and Pension Presentation of proposals for 2024-27 WP Intro to Res F Invited talk (#5) - Metrology and QI	[11h00 - 12h45] Reporting session Summary of discussion at the Informal Dotation meeting (CIPM Pres.) Report from CCU Intro to Res C (SI prefixes) Intro to Res B (Digital-SI Framework) Liaison talk (#3) from OIML	[11h00 - 12h45] CGPM closed session (I) Presentation of Res V (Dotation) Opening of voting on CIPM and CEC (with explanation of method)
Lunch (75 min)	Lunch (75 min)	Lunch (75 min)	Lunch (75 min)
[14h00 - 15h30] Reporting session Intro to "Emerging Needs" and Res A (G Rietveld) Invited talk (#1) - Climate (inc feedback from Climate Conf) Report from CCQM	[14h00 - 15h30] Closed session for dotation discussion Informal meeting on the BIPM Dotation 2024-27	[14h00 - 15h30] Reporting session Invited talk (#8) - Requirements for timescales Invited talk (#9) - Optical clocks Report from CCTF Intro to Res D and E	[14h00 - 15h30] CGPM closed session (II) Voting on resolutions Voting on dotation Results of voting on CIPM and CEC Plans for the 150th anniversary (CIPM Pres.)
Tea/Coffee (30 min)		Tea/Coffee (30 min)	
[16h00 - 17h00] Invited talk (#2) Reports from CCPR and CCT		[16h00 - 17h00] Liaison talk (#4) Report from CCAUV Report from the JCRB	

Draft resolutions developed by the CIPM

- A. On the evolving needs for metrology
From the CIPM Strategy Sub-committee
- B. On the digital SI framework and new (digital) missions for the BIPM
From the CIPM Task Group on the Digital-SI Framework
- C. New SI prefixes
From the Consultative Committee for Units
- D. On the use and future development of Universal Coordinated Time (UTC)
From the Consultative Committee for Time and Frequency
- E. On the future re-definition of the second
From the Consultative Committee for Time and Frequency



Draft resolutions developed by the CIPM (cont.)

F. On universal adherence to the Metre Convention

From the CIPM; requesting a mandate for future strategy development

V. The dotation of the BIPM for the years 2024 to 2027

From the CIPM



Development of the **CIPM** Strategy

CGPM 2022

Five resolutions to improve the system and advance the SI

CGPM requested to mandate CIPM to develop proposals and to consult on broader participation

Consultation with CCs and stakeholders on Strategy reports

CIPM 2022-2026

CIPM consults with Member States and the community on popular new vision/mission, model for broader participation, investigate best practice for IOs

Concludes and Presents Strategy 2030+ to the community in 2025

CGPM 2026

Member States agree on:

- modernising the organisation, new vision/mission
- structures,
- funding models,
- broader participation

for full implementation

Communication plan

16th Feb 2022

On-line information meeting for State Reps

22nd -24th March 2022

Meeting of the CIPM (*held online*)

May 2022

CIPM President writes to State Reps proposing agenda for a preparation meeting and for an informal CGPM dotation committee.

21st - 22nd June 2022

Meeting of the CIPM (*held in Sevres*)

6th Sept 2022

On-line information meeting for State Reps

Sept 2022

Publication of “near final version” of the Work Programme and “Highlights and Notes” to support dotation discussions at the CGPM.

15th - 18th Nov 2022

27th CGPM meeting held in Versailles (*with online participation*)



Governance issues being addressed by the CIPM

Actions completed (on Modernising the Organization)

- **Rules of Procedure for the CIPM** have been agreed and published on the website. After a legal opinion of who is delegated by the Convention to sign legally binding documents, the RoP was amended in 2021.
- **Code of Conduct for the CIPM** has been approved and will be published before the end of May.

Actions in response to the work of the ad-hoc SR WG

- Decision by correspondence.

*“Considering the response to comments on the text for a draft resolution prepared by the ad-hoc Working group of State representatives in February 2022, and in accordance with the First Article of the Metre Convention, the CIPM recalled its decision 107-06 and **decided to recommend the use of the term “Headquarters” (in French Siège) whenever it is required (for example in formal or informal documents) to refer to the scientific and technical staff and facilities at the Pavillon de Breteuil**”.*

Thank you