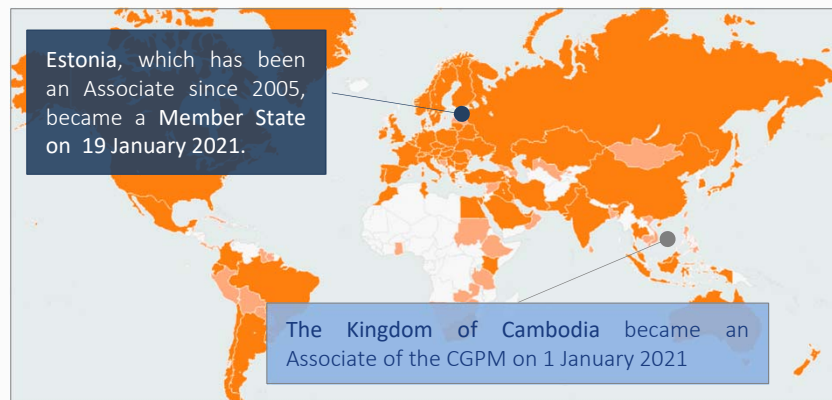


Report from the BIPM to the 32nd Meeting of the CCEM

Martin Milton
BIPM Director

Members and Associates *(March 2021)*



- 63 Member States* and
- 39 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.*



www.bipm.org

259 Institutes participating in the CIPM MRA

- 103 National Metrology Institutes
 - 63 Member States
 - 39 Associates
- 4 International organizations
(ESA, IAEA, JRC, WMO)
- plus 152 Designated Institutes

1 710 comparisons
1082 KCs, 628 SCs

25 728 CMCs
Peer-reviewed declarations

CBKT online activities

*...any topics and
ideas are welcome!*



“REMOTE-
LEARNING”
online activities

- ONLINE SHORT COURSES

- KCDB 2.0 - ONLINE TECHNICAL EXCHANGES

- **on-line programs**
BIPM LABORATORY KNOWLEDGE TRANSFER

NEW

...registration starts in April

www.bipm.org



11 projects have been organized since May 2020:

- More than 900 participants
- Broad and deep coverage

BIPM - ILAC
JOINT WEBINAR
MINING KCDB 2.0
IN THE CONTEXT OF
ACCREDITATION

21 January 2021

- More than 600 participants from accreditation community.
- *...how to get the most out of the KCDB... how the data is quality assured.*

Welcome to BIPM e-Learning

...aims to provide online assistance to NMI/DI staff from Member States and Associates to strengthen their capabilities, including their involvement in the CIPM MRA mechanisms

Useful Links



ABOUT THE BIPM CBKT



HELP ON THE KCDB



METROLOGY FOR SAFE FOOD



METROLOGY FOR CLEAN AIR



THE BIPM

Available courses

...launching on 26th April.

Tweets by @BipmMedia



@BipmMedia

The virtual workshop "The International System of Units (SI) in FAIR digital data" starts today.
bipm.org/en/conference-...



Feb 22, 2021



@BipmMedia

KCDB 2.0 technical exchanges for NMIs/DIs: Sessions for CMC Writers/Reviewers in General physics and Ionizing radiation will be held on 29 and 30 March 2021. Registration is available through the RMOs.

BIPM Laboratory knowledge transfer

Launch of on-line programs

Metrology for Safe Food:

- **Mycotoxin Standards**
- **Pesticides and Residues (2021)**

Visit: <https://www.bipm.org/en/cbkt/safe-food.html>

Metrology for Clean Air:

- **FTIR operation for accurate gas analysis**
- **Dynamic gas standard generation (2022)**

Visit: <https://www.bipm.org/en/cbkt/clean-air.html>

Metrology for Laboratory Medicine:

- **Peptide standards (2023)**

CIPM initiative to provide a Digital SI Framework

The CIPM has launched a **Task Group on the “Digital SI Framework”**

- ◆ To enable SI-based digital communication in industry
- ◆ To support the digital science and open-science paradigms
- ◆ To get metrological services ready for artificial intelligence



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The Key Comparison Database (KCDB)

262 Institutes *(August 2019)*

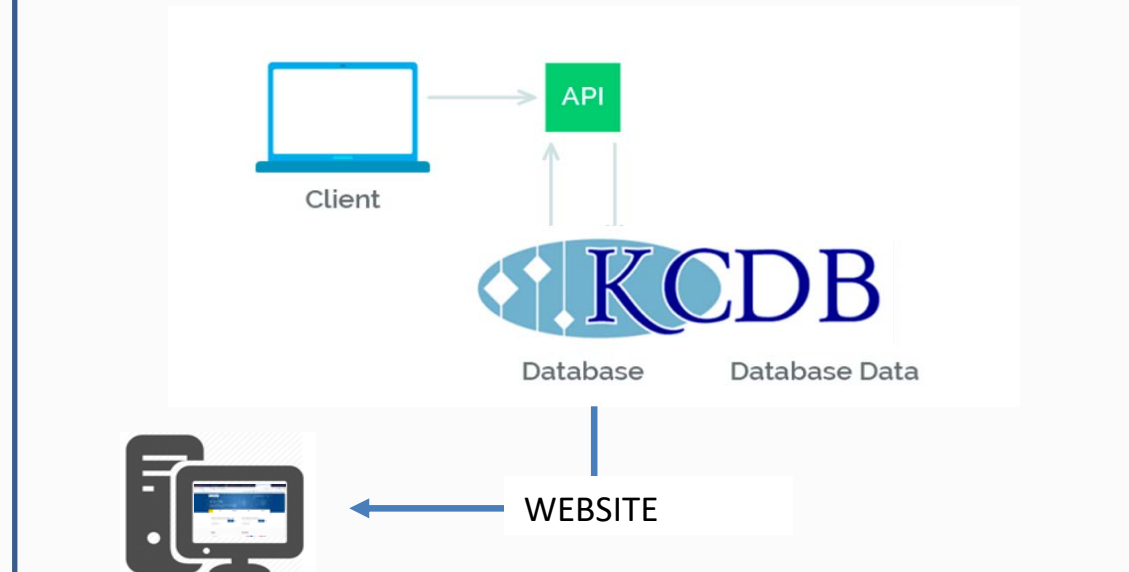
- 102 National Metrology Institutes
 - 61 Member States
 - 41 Associates
- 4 International organizations
(ESA, IAEA, JRC, WMO)
- plus 156 Designated Institutes

6 RMOs

Playing an important role to support mutual confidence in the validity of calibration and measurement certificates issued by participating institutes

www.bipm.org

Machine readable access to the KCDB



1,613 comparisons

1039 key, 574 supplementary
comparisons

25 242 CMCs

regionally and internationally peer-
reviewed CMC declarations

Work in progress - machine-readable products

Approved by the CIPM. Work in progress.

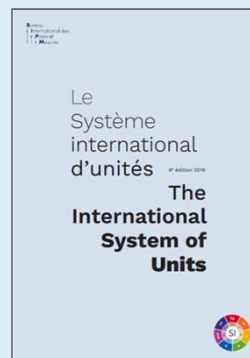


+ Time Dept database



API access

Real-time **validation of traceability**
and scope of recognition for
digital calibration certificates.



+ The annotated VIM

xml versions

The authoritative reference
data defining the SI and how to use
it.

Future work



Findable and Accessible data
submitted to support key
comparisons and publications

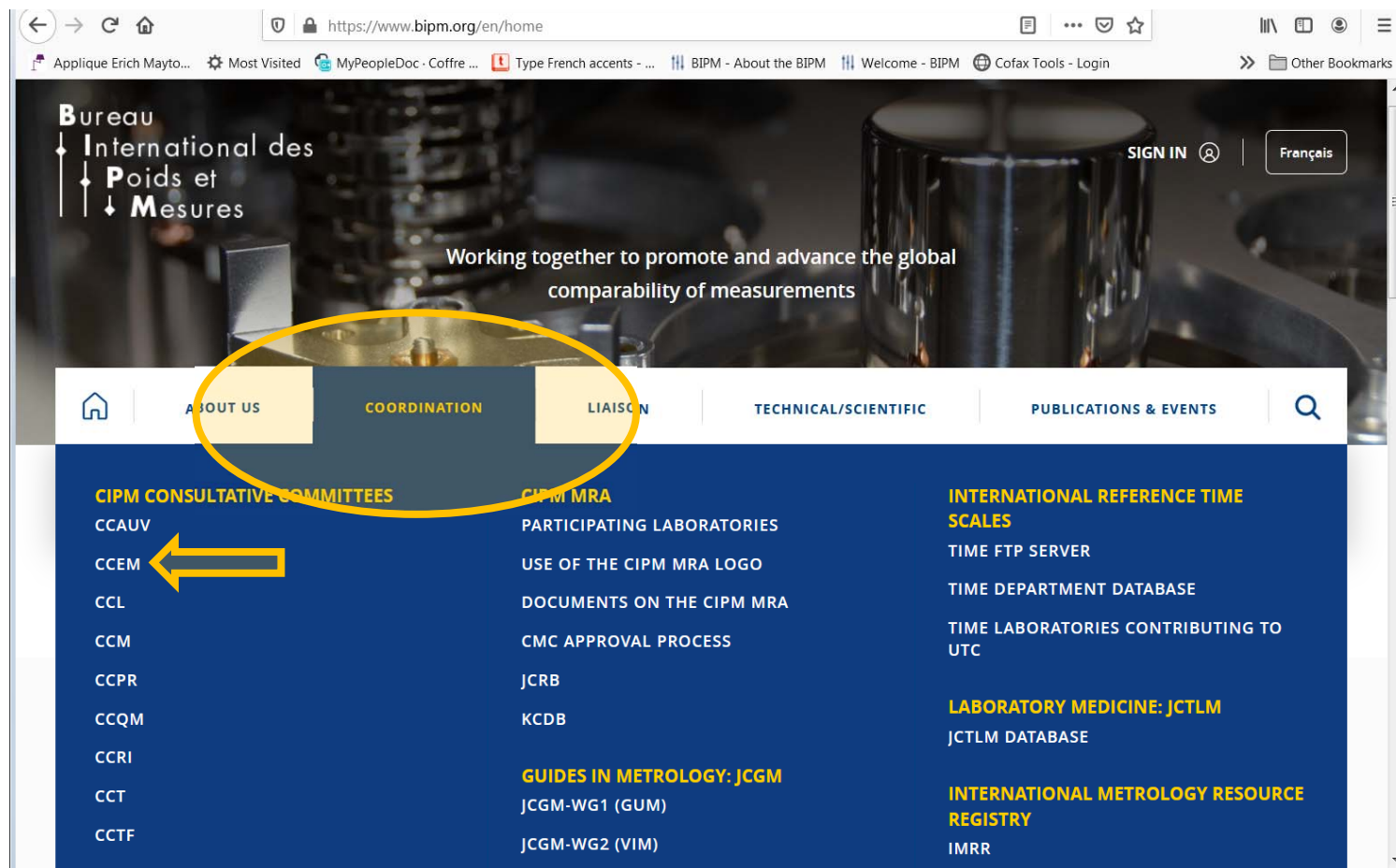


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World Metrology Day

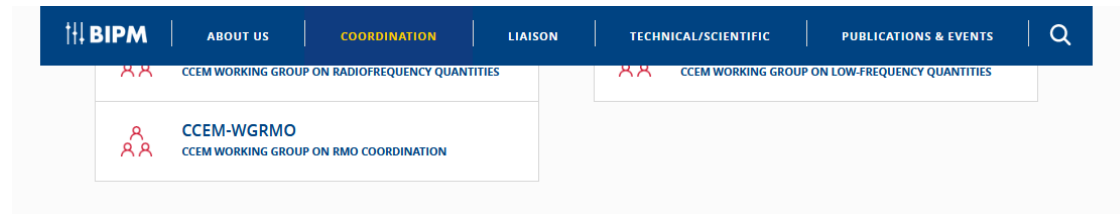
- The theme of World Metrology Day in 2021 is *"Measurement for Health"*
- Partner RMO is GULFMET

<https://www.worldmetrologyday.org/index.html>



Bureau International des Poids et Mesures

1. For your committee and working documents, click on **Coordination** and follow the links...



Meetings and related documents

Meeting Title	Date	Organizer
32nd meeting of the CCEM (online)	FROM 14 TO 15 APRIL 2021	MICHAEL STOCK, CCEM
CCEM-WGLF	08 APRIL 2021	CCEM-WGLF
CCEM-GT-RF	07 APRIL 2021	CCEM-GT-RF
CCEM-WGRMO	06 APRIL 2021	CCEM-WGRMO
CCEM-WGSP	08 OCTOBER 2020	CCEM-WGSP
31st meeting of the CCEM	FROM 28 TO 29 MARCH 2019	MICHAEL STOCK, CCEM

3. Click on the card of the meeting in which you're interested...

The screenshot displays the CCEM website's navigation bar with links: ABOUT US, COORDINATION (highlighted), LIAISON, TECHNICAL/SCIENTIFIC, and PUBLICATIONS & EVENTS. Below the navigation bar, the CCEM logo is followed by the title "32nd meeting of the CCEM (online)" and the dates "14 to 15 April 2021". A "Select" dropdown menu and a "View" button are present. The "Contact person" section lists "Michael Stock". The "Working documents" section, highlighted with a yellow oval, contains a grid of document cards:

- CCEM/2021-00_a**: Convocation for the 32nd CCEM meeting 2021
- CCEM/2021-00_b**: Information on CCEM working group meetings
- CCEM/2021-01_a**: Draft agenda for the 32nd meeting of the CCEM on 14-15 April 2021
- CCEM/2021-06_a**: Enabling Linearity CMCs in Electricity and Magnetism, I. Budovsky
- CCEM/2021-06_b**
- CCEM/2021-06_c**

4. Attention, to see restricted-access content you will need to identify yourself with an individual login.

← → ↻ 🏠 🔒 https://www.bipm.org/en/committees/cc/cctf/22-2-2021

Applique Erich Mayo... ⚙ Most Visited 🌐 MyPeopleDoc - Coffre ... 📄 Type French accents - ... 📄 BIPM - About the BIPM 📄 Welcome - BIPM 🌐 Cofax Tools - Login >> 📁 Other Bookmarks

Bureau International des Poids et Mesures

Coordinating the world-wide measurement system to ensure comparable and internationally accepted measurement results.

SIGN IN 👤 | Français

🏠 ABOUT US COORDINATION

CCTF 22nd part

Select View

11 to

5. To set up your password the first time, click on **Password forgotten...**

Sign in


Email Address

Password



→ Password forgotten

SIGN IN

≡ BIPM

Q |  Français

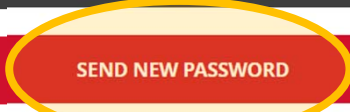
1. Email Address *

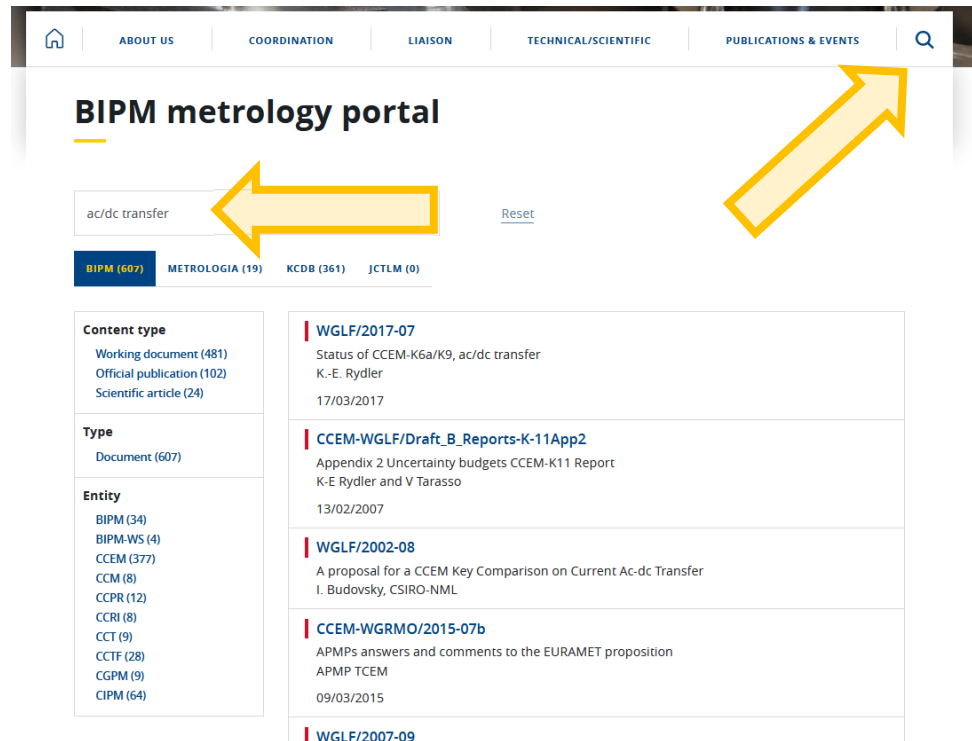
2. Text Verification *

1

CANCEL

3. 

6. Use the email address with which you're identified in the BIPM's Meetings Office database.



7. Try the new search engine, which now includes your restricted documents once you're logged in.



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Mesures

Thank you