

COOMET Report to the SIM General Assembly meeting

Dr. Valery HUREVICH, COOMET President

4 November 2022, ONLINE



COOMET full members - 14 COOMET associated members - 5

Notes: Romania terminated its membership in COOMET in October 2021, limiting itself to cooperation in EURAMET; DPR of Korea also withdrew from COOMET.

| Country | Membership in COOMET | Relation to the Metre Convention | | |
|------------|-------------------------|----------------------------------|--|--|
| | | | | |
| Belarus | Member, 1992 | Member, 2020 | | |
| Bulgaria | Member, 1991 | Member, 1911 | | |
| China | Associate, 2016 | Member, 1977 | | |
| Germany | Associate, 1991 | Member, 1875 | | |
| Kazakhstan | Member, 1998 | Member, 2008 | | |
| Lithuania | Member, 1995 | Member, 2015 | | |
| Russia | Member, 1991 | Member, 1875 | | |
| Slovakia | Member, 1993 | Member, 1922 | | |
| Turkey | Associate, 2014 | Member, 1875 | | |
| Ukraine | Member, 1992 | Member, 2018 | | |



- Members of the Metre Convention 10
- ✤ CGPM Associates 5
- ✤ Signatories to the CIPM MRA 15

| Country | Membership in COOMET | Relation to the CGPM | |
|------------------------|-------------------------|-------------------------|--|
| Azerbaijan | Member, 2007 | CGPM Associate, 2015 | |
| Bosnia and Herzegovina | Associate, 2013 | CGPM Associate, 2011 | |
| Cuba* | Associate, 1991 | CGPM Associate, 2000 | |
| Georgia | Member, 2006 | CGPM Associate, 2008 | |
| Moldova | Member, 1997 | CGPM Associate, 2007 | |
| Uzbekistan | Member, 2004 | CGPM Associate, 2018 | |

*Note – Cuba was a CGPM Associate and participated in the implementation of the CIPM MRA since 2000, however Cuban NMIs have currently lost (from 01.01.2022) the status of signatories to those Arrangements.

| Country | Membership in | Relation to | |
|------------|---------------|---------------------------|--|
| Country | COOMET | the Metre Convention/CGPM | |
| Armenia | Member, 2007 | NOT YET | |
| Kyrgyzstan | Member, 2000 | NOT YET | |
| Tajikistan | Member, 2009 | NOT YET | |





COOMET President: Dr. Valery HUREVICH Belarusian State Institute of Metrology (BelGIM)

COOMET D1/2020:

The President, Vice-Presidents and Head of the COOMET Secretariat form the Presidential Council, which develops the policy of cooperation within COOMET, interacts with international and regional metrology organizations, organizes cooperation between the Committee meetings and prepares questions to be considered at these meetings.



Vice-President Mr. Evgeny Lazarenko (Rosstandart, Russia)



Vice-President Dr. Frank LIENESCH (PTB, Germany)



Vice-President Ms. Nino MIKANADZE (GEOSTM, Georgia)

VACANT







Head of Secretariat Ms. Nadezhda LIAKHOVA (BelGIM, Belarus)

Coordination in the field of measurement standards. Joint scientific research

Cooperation in the field of legal metrology

Cooperation in the field of development and peer review of quality management systems

Cooperation with RMOs. Information and knowledge transfer

Cooperation with countries with emerging metrology systems

Support of CEEMS





COOMET criteria for COOMET member countries to be classified as countries with emerging metrology systems (CEEMS) were identified:

- Iack of the status of the "Member of the Metre Convention" or "CGPM Associate" of the country;
- lack of published CMC entries;
- non-participation in key or supplementary comparisons, registered in the KCDB.

Countries which decided to be classified as CEEMS:

- ✤ ARMENIA,
- ✤ KYRGYZSTAN,
- ✤ TAJIKISTAN,
- UZBEKISTAN.

Aim: more active involvement of CEEMS in the activities of COOMET structural bodies and COOMET projects.

1. A survey was conducted to identify the needs of CEEMS in terms of carrying out comparisons and calibrations of measurement standards, holding of training seminars and traineeships.

2. A survey is being conducted among other COOMET member countries to identify their possibilities of providing assistance to CEEMS (in view of their needs); possible external sources of funding for working programs and projects for CEEMS countries will also be sought.

3. Until the end of year 2022 preparation of a **COOMET Work Program on the issues of CEEMS** is suggested with an indication of specific actions and timeframes for their implementation.

4. Establishment of a Task Group on CEEMS support



Resolutions of the 29th COOMET Presidential Council meeting (13 June 2022, online):

The issue will be submitted to the COOMET Committee for approval (25-27.10.2022)

To recommend to the COOMET Committee to suspend the activities of the Working Group for Preparation of the COOMET Development Strategy.

To take note of the achievements of the WG for Strategy as to the change of the institutional status of COOMET and to use them in reactivating WG activities.

To endorse in general proposals of the WG for Strategy on the formation of the revenue and expenditure side of the COOMET budget and to use them as a basis for a feasibility study of the COOMET budget and to use them in reactivating WG activities.

To continue discussion on the update of tasks and fields of cooperation in legal metrology within the COOMET Presidential Council.

To request the COOMET Secretariat to organize a survey among COOMET Committee members to identify their vision for possible options to enhance cooperation without changing the organizational and legal form of COOMET (in view of the discussion held at the 13th meeting of the WG for Strategy (17.02.2022)) by 01.10.2022.

To present the results at the next COOMET Committee meeting.

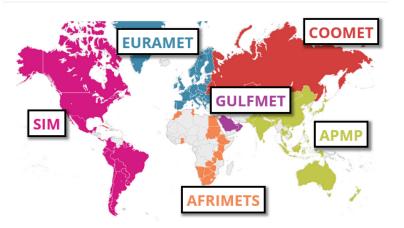


Participation of COOMET in the CIPM MRA





Implementation of the Mutual Recognition Arrangement (CIPM MRA) (as of 20.10.2022)



Currently in the KCDB there are

250 1137 CIPM MRA participants key comparisons

25938

CMCs



supplementary comparisons

2566 – total number of CMCs from NMIs of the countries, which submit them through COOMET

(Azerbaijan, Belarus, Georgia, Kazakhstan, Russia, Uzbekistan, Ukraine)

*Note – Cuba was a CGPM Associate and participated in the implementation of the CIPM MRA since 2000, however Cuban NMIs have currently lost (from 01.01.2022) the status of signatories to those Arrangements.

Total: 7347 CMC (for all COOMET member countries)



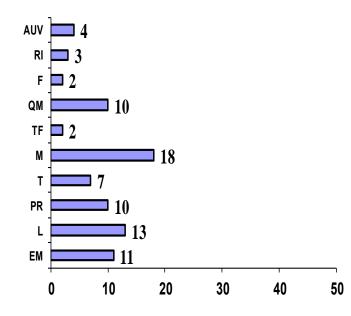


Implementation of the CIPM MRA

All COOMET comparisons are listed in **COOMET P2/2021** "COOMET Program of comparisons" (approved as of 25.11.2021) Besides, the interactive version of the Program is available at the following link

http://www.coomet.org/tc_prj/2022/D9_EN.htm

There are currently **80 actual projects** on comparisons in the COOMET Program (as of 08.11.2021).



| | | COOMET Program | | | COOMET | |
|---------------------|---|----------------|-------------|----------------|---------------|---------------------|
| | COOMET PROGRAM OF COMPARISONS | | | | P2/2022 | |
| | Approved at the 28th COOMET Presidential Council meeting (25 November 2021) | | | | | as of 22.09.2022 |
| Total | | | | | | |
| 91 projects. | from 25.11.2021: | 3 - proposed; | 5 - agreed; | 7 - completed; | 4 - excluded; | |
| AUV - Acoustic | s, Ultrasound and | Vibrations | | | | |
| 5 <u>projects</u> . | from 25.11.2021: | 0 - proposed; | 1 - agreed; | 1 - completed; | 0 - excluded; | |
| EM - Electricity | And Magnetism | | | | | |
| 11 projects. | from 25.11.2021: | 2 - proposed; | 1 - agreed; | 0 - completed; | 0 - excluded; | |
| L - Length | | | | | | |
| 14 projects. | from 25.11.2021: | 0 - proposed; | 0 - agreed; | 0 - completed; | 1 - excluded; | |



Implementation of the CIPM MRA

Status of recognition of QMS of COOMET NMIs/DIs according to ISO/IEC 17025:2017

| NMI/DI | Confirmation of recognition | Date of issue | Valid until | Metrological areas |
|---|-----------------------------|---------------|--|----------------------------------|
| VNIIM (Russia) | QSF-R79 | 04.03.2021 | 04.03.2026 | AUV, EM, L, RI, T, M, QM |
| VNIIOFI (Russia) | QSF-R76 | 04.03.2021 | 04.03.2026 | PR, QM |
| VNIIFTRI (Russia) | QSF-R78 | 04.03.2021 | 04.03.2026 | AUV, EM, RI, T, M, QM, TF |
| VNIIMS (Russia) | QSF-R75 | 04.03.2021 | 04.03.2026 | L, EM |
| BelGIM (Belarus) | QSF-R82 | 30.09.2021 | 30.09.2026 | AUV, EM, RI, T, M, QM, TF, L, PR |
| NSC "Institute of Metrology" (Ukraine) | QSF-R86 | 30.09.2021 | 30.09.2026 | EM, RI, T, M, TF, L, PR |
| SE "Ukrmetrteststandard" (Ukraine) | QSF-R84 | 30.09.2021 | 30.09.2026 | AUV, EM, M, L, PR, QM |
| SE "NDI Systema" (Ukraine) | QSF-R72 | 20.11.2020 | 01.06.2023 (extended by the decision of the Presidential Council) | AUV |
| INIMET (Cuba) | QSF-R67 | 20.11.2020 | 04.10.2023 | M, L, QM, T, TF |
| CENTIS (Cuba) | QSF-R66 | 20.11.2020 | 04.10.2023 | RI |
| CPHR (Cuba) | QSF-R65 | 20.11.2020 | 04.10.2023 | RI |
| SE "Ivano-Frankivskstsndartmetrologia" (Ukraine) | QSF-R73 | 20.11.2020 | 04.10.2023 | М |
| KazStandard (Kazakhstan) | QSF-R81 | 12.04.2021 | 12.04.2026 (subject to onsite peer review in 2022-2023) | M, L, QM, T |
| GEOSTM (Georgia) | QSF-R74 | 28.01.2021 | 04.10.2023 | EM, M, T, RI, L |
| AzMI (Azerbaijan) | QSF-R71 | 20.11.2020 | 31.01.2023 | T, RI, EM, M |



Implementation of the CIPM MRA

Status of recognition of QMS of COOMET NMIs/DIs according to ISO 17034:2016

| NMI/DI | Confirmation of recognition | Date of issue | Valid until | Metrological areas |
|----------------------------------|-----------------------------|---------------|---|---|
| VNIIM (Russia) | QSF-R80 | 04.03.2021 | 04.03.2026 | Gases Organic solutions Inorganic solutions Electrolytic conductivity High purity chemicals Advanced materials Food products Coatings, films, and nanomaterials. |
| VNIIOFI (Russia) | QSF-R77 | 04.03.2021 | 04.03.2026 | Inorganic solutions Metal and metal alloys Biological fluids and materials |
| BelGIM (Belarus) | QSF-R83 | 30.09.2021 | 30.09.2026 | Gases pH Electrolytic conductivity |
| Ukrmetrteststandart (Ukraine) | QSF-R85 | 30.09.2021 | 30.09.2026 | Gases pH Electrolytic conductivity |
| KazStandard (Kazakhstan) | QSF-R60 | 02.10.2019 | 31.12.2022 (extended at the decision of the Presidential Council) | Gases pH |



Other projects and events





A COOMET Task Group on the Issues of Digital Transformation in Metrology was established. (project 825/RU-a/21 "Development of the COOMET concept on digitalization in the field of metrology")

A draft COOMET Concept For The Issues Of Digital Transformation In Metrology and Roadmap for the implementation of the Concept are under discussion.

The Concept covers the following aspects:

- review of electronic documents in metrology and formulation of requirements to their formats and structure;
- use of FAIR+T data;
- use of digital technology in COOMET activities;
- use of cloud and grid technology in metrology in COOMET member countries;
- development of recommendations on the structure of and requirements for the objects of digitalization which are constituent parts of the digital platforms of COOMET member countries;
- development of common approaches to the creation and maintenance of national information funds in the field of ensuring the uniformity of measurements in COOMET member countries





Work on the preparation of training courses for the COOMET page on the BIPM e-learning platform has begun (to date 2 COOMET courses on COOMET activities have been prepared) aimed at the involvement of a maximum number of specialists from COOMET member countries in the courses. The subjects of other courses are being discussed.

Russian



E CATALOGUE ABOUT US YOUTUBE -



https://e-learning.bipm.org/

| | | | ACC TOTAL TOTAL TOTAL TOTAL TOTAL |
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| Miscellaneous | | <u>e</u> | C |
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| Chemistry and Biology | | activities | деятельности коотмет |
| Ionizing Radiation | | COOMET | COOMET |
| Time and Frequency | | MORE DETAILS | MORE DETAILS |
| COURSE ACCESS | ~ | | |
| Open | | | |
| Restricted | | | |
| LANGUAGE | ~ | | |
| English | | | |





22nd COOMET TC 2 "Legal Metrology" (27-28 September 2021)

Activities of COOMET TC 2 in 2022:

Translation

- □ Translation of the Brochure UNIDO-OIML "Certification of measuring instruments"
- □ Translation of Document OIML D1:2020
- Translation of D10, D30, D32, R75, G14, D11, D31, D 33, R125

Drafting of a list

of accepted rules, guidelines, recommendations in the field of legal metrology of other RLMOs of interest to COOMET countries. Discussion of the possibility of their application in COOMET member countries is planned.

Implementation of COOMET projects:

- 716/BY-a/17 Development of rules for setting up reverification and recalibration intervals for measuring instruments used in the field of legal metrology
- ✤ 797/BY/19 Review of approaches to the metrological support of medical measuring instruments







Anticipated calendar of events for 2022 and the coming year in COOMET

- □ 33rd COOMET Committee meeting (25 to 27 October 2022, online);
- 34th COOMET Committee meeting & COOMET seminar on digital transformation in metrology (2023);
- X International competition "Best Young Metrologist of COOMET" (June 2023);
 TC meetings



Thank you for your attention!



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COOMET web-portal (<u>www.coomet.net</u>)

COOMET website (<u>www.coomet.org</u>)