

## ANNUAL REPORT of COOMET TC 4 “Information and Training” for 2023

### **1 GENERAL CHARACTERISTICS OF COOPERATION, including information about the implementation of the COOMET Strategy, COOMET Development Program and Work Program of TC 4**

Representatives of the following COOMET member countries take part in TC 4 activities: Azerbaijan, Armenia, Belarus, Bulgaria, Germany, Georgia, Kazakhstan, China, Cuba, Kyrgyzstan, Moldova, Russia, Tajikistan, Uzbekistan.

At the 35th COOMET Committee meeting on 19.09.2023 the position of acting chairman of TC 4 was transferred to the head of the new Secretariat from KazStandard A. Rakhadinova.

At the 20th meeting it was planned to hold elections of the new chairman of TC 4 and SC 4.1. Elections were not held due to the absence of nominated candidates from the countries. Elections will be held again at the next TC4 meeting in 2024. The Presidential Council extended the authority of A. Rakhadinova as acting Chairperson of TC 4 until the end of 2024.

The COOMET Secretariat will continue the coordination of issues related to the organization of COOMET training activities.

There are three subcommittees functioning in TC 4:

- SC 4.1 “Capacity Building in Training and Knowledge Transfer” (Chairperson is absent);
- SC 4.2 “COOMET Informational Resources” (former Chair – Ilya Krasavin Ivanov, VNIIMS, Russia);
- SC 4.3 “Raising Proficiency Level and Work with Young Metrologists” (Chair – Ekaterina Kozmina, VNIIMS, Russia).

TC 4 in conjunction with the COOMET Secretariat continuously provides management and maintenance of the COOMET web site ([www.coomet.org](http://www.coomet.org)), as well as the COOMET data server (DB of COOMET projects, DB of COOMET comparisons, DB of COOMET CRMs, etc.). Information is posted on the COOMET web portal ([www.coomet.net](http://www.coomet.net)) by the COOMET Secretariat and online editors of COOMET structural bodies.

*Note: DB on CMCs is temporarily not being maintained.*

### **2 OVERVIEW OF IMPLEMENTED PROJECTS AND THEIR RESULTS**

In 2023 work was conducted on the following registered projects:

#### **543/RU-a/11 Development and administration a database of RM of COOMET**

Ongoing joint project of TC 1.12 “Reference Materials” and TC 4 “Information and Training”. The aims of the project are to collect and examine data on the reference materials of COOMET, publish them on the website as a database, maintain and update the database. 132 types of COOMET CRMs have currently been registered in the database.

Considering that the COOMET website ([www.coomet.org](http://www.coomet.org)) was transferred to the information technology platform of the All-Russian Research Institute of Metrological Service (Russia) with the transfer of its administration to the specialists of this institute, an online meeting was held between the Secretariat of TC 1.12, the COOMET Secretariat, and the Project Coordinators to discuss the algorithm of actions for maintaining the COOMET Data Base of COOMET CRMs.

The Secretariat of TC 1.12 prepared an updated form for the agreed project 543/RU-a/11 for submission to the COOMET Secretariat in connection with the change of the information technology platform and the appointment of a new co-coordinator from the All-Russian Research Institute of Metrological Service. Work on the project is carried out in a planned manner.

- 829/BY-a/21** Preparation of an internal procedure for the assessment of training needs and planning of training activities within COOMET (coordinator – BelGIM, Belarus)
- 853/BY-a/22** Update of document COOMET D11/2016 "The Procedure of Using the COOMET Logo" (coordinator – BelGIM, Belarus)
- 860/RU/22** Update of document COOMET R/IT/24:2014 "Educational programs and practical training programs of experts of National Metrological Institutes cooperating in COOMET" (coordinator – VNIIMS, Russia)

The above mentioned drafts were considered by TC4 members; consideration by COOMET Chairs was organized. The draft was approved by COOMET Presidential Council and is submitted for approval to COOMET Committee.

When updating the draft updated Recommendation COOMET R/IT/24:2014 it is proposed to put in a new title "Programs of COOMET training events. Requirements for content and design. Procedure of development".

In 2023 the following projects were completed:

1) **Project 861/BY-a/22** "Update of Recommendation COOMET R/IT/27:2015 "Procedure for preparing certificates of training, study visits and up-skilling within the framework of COOMET".

New version was approved by the COOMET Committee as COOMET R/TR/27:2023 «Procedure for preparing certificates issued based on the results of trainings within COOMET».

2) The NEW COOMET Recommendation «Rules for creation, approval and update of COOMET courses on the BIPM e-learning platform. Monitoring and satisfaction assessment for participation in COOMET courses» was approved by the COOMET Committee as COOMET R/TR/36:2023.

### 3. RESULTS OF THE TC MEETING

The 20th meeting of TC 4 "Information and Training" was held on October 31, 2023 in Tashkent (Uzbekistan) in hybrid format.

The meeting was attended by the representatives of 9 COOMET countries: Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, China, Cuba, Russia, Tajikistan, Uzbekistan - TC 4 members and their representatives, as well as invited experts. The following main issues were considered at the meeting:

- brief report about the activities of TC 4 in 2022-2023;
- about the state of the COOMET information resources;
- about the implementation of the TC 4 Work Program for 2024-2026 (COOMET P4/2021) in view of the COOMET Development Program for 2020-2022 (in the area of responsibility of TC 4);
  - about the preparation of an internal procedure for the assessment of training needs and planning of training activities within COOMET;
  - about the results of the survey among COOMET Committee members on possible options to enhance cooperation (with regard to training events);
  - about the performance of training activities, envisaged by the Plan of training activities of COOMET for 2023; about a draft Plan of training activities of COOMET for 2024-2025;
  - about drawing up of a list of fundamental documents on metrology of international metrology organizations requiring translations into Russian;
- about COOMET publications (Update of document COOMET D11/2016, recommendation COOMET R/IT/24:2014, recommendation COOMET R/IT/27:2015);
- COOMET activities within the framework of the BIPM e-learning platform;
- election of the TC 4 Chair. About the office of SC 4.1 and SC 4.2 Chairs.

The meeting resolutions are reflected in this report.

### 4. TRAINING ACTIVITIES

**4.1** The following trainings were organized and conducted in 2023.

No	Proposed subject of the training activity	Venue/format	Timeframe
1.	National time scales, calibration of comparison instruments	ONLINE	19 of January 2023 (within TC 1.11 meeting)
2.	Training in the general principles of work with KCDB 2.0 (for technical experts on CMC review and candidates for TEs)	ONLINE	12 of April 2023
3.	Implementation of a new definition of the temperature unit – Kelvin	ONLINE	27 of April 2023
4.	Calibration of infrared medical thermometers (online course)	ONLINE	1-2 of June 2023
5.	Calibration of gauge blocks, calipers, micrometers and dial indicators (online course)	ONLINE	19-29 of June 2023
6.	Special aspects of metrological support of bioanalytical measurements	Combined format (VNIIM, Saint Petersburg, Russia, & ONLINE	30 of June 2023 (within TC 1.8 meeting)
7	Uncertainty evaluation in calibration	Combined format (VNIIM, Saint Petersburg, Russia, & ONLINE	25 of October 2023
8	Issues of the metrological ensuring of measurements using smart meters	Combined format (UzNIM, Tashkent, Uzbekistan & ONLINE	1 of November 2023 (within TC 2 meeting)
9	The practice of implementation of the CIPM MRA documents regulating the activities of NMIs on the <b>procedure for CMC preparation and calculation of the uncertainty budget</b> (for TC 1.7 and TC 1.4)	Combined format (UzNIM, Tashkent, Uzbekistan & ONLINE	16 November 2023 (within TC 1.7 meeting)
10	The practice of implementation of the CIPM MRA documents regulating the activities of NMIs on the <b>procedure for CMC preparation and calculation of the uncertainty budget</b> (for TC 1.10)	ONLINE	29 of November 2023 (within TC 1.10 meeting)

Representatives of 11 COOMET member countries (Azerbaijan, Armenia, Belarus, Bosnia and Herzegovina, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Russia, and Uzbekistan) took part in the trainings.

Other training activities were rescheduled for 2023.

Information about the held training activities is available on the COOMET web portal at <https://www.coomet.net/activities/information-and-training/information-about-past-training-activities/>.

**4.2 One of TC 4 tasks is coordination of participation of specialists from NMIs of COOMET member countries, especially from countries with emerging metrology systems (CEEMS), in training activities realized under the BIPM CBKT Program and programs of other partners.**

In 2023 specialists from NMIs of COOMET member countries took part in the following activities:

- KCDB 2.0 – TC Chairs in Chemistry and Biology, 19 January 2023, online (participants – RU);
- KCDB 2.0 – Comparisons, 8 February 2023, online (participants – AZ, GE, KG, KZ, RU, UZ);
- KCDB 2.0 – CMC-Writers-GP, 23 March 2023, online (participants – AZ, GE, KG, KZ, RU, UZ);
- KCDB 2.0 – TC Chairs, 16 June 2023, online (participants – RU, BY);
- CBKT-RMO-Forum, 27-29 September 2023, online (participants – COOMET Secretariat KazStandart);
- TÜBİTAK UME Project Placement, June – November 2023 (participants – Ms Yekaterina Andryuchshenko (KazStandart), Mr Zhuldyz Saden (KazStandart), KZ).

**4.3 COOMET activities within the framework of the BIPM e-learning platform** (см. <https://e-learning.bipm.org/>) are implemented through the special COOMET sector. The work was performed based on the Practical Arrangement between the BIPM and COOMET on cooperation in delivering capacity building and knowledge transfer activities using the BIPM e-learning platform, signed in early 2022.

To date two COOMET sector administrators (representatives of KazStandard, Kazakhstan, and COOMET Secretariat) and course creators, who completed the training, have been appointed.

Three courses were made available on the platform in the COOMET sector:

- course "Information about COOMET activities" (in Russian and in English);
- course "CIPM MRA" (in Russian);
- "Evaluation of the results of comparisons of national measurement standards. Rules, approaches and experience of COOMET" (in Russian, posted on 01.09.2023)

The course "Evaluation of the results of comparisons of national measurement standards. Rules, Approaches and Experience of COOMET" was created in cooperation with the Chairperson of TC 1.1 Chunovkina A.G. and COOMET Secretariat.

## **5. ISSUES OF INTERACTION WITH INTERNATIONAL AND REGIONAL ORGANIZATIONS IN THIS FIELD OF COOPERATION**

The interaction of TC 4 with international organizations is realized through the coordination of participation of NMI representatives from COOMET countries in the BIPM CBKT programs (see 4.2 of the report).

In 2023 there were no interactions of TC 4 with regional organizations.

## **6. WORK ON THE INFORMATION SUPPORT OF THE CIPM MRA**

Information about the CIPM MRA implementation in COOMET member countries is posted on the pages of [www.coomet.net](http://www.coomet.net) and [www.coomet.org](http://www.coomet.org).

To ensure the implementation of the CIPM MRA by COOMET structural bodies on an ongoing basis, the database of COOMET comparisons is maintained, alongside with drawing up and monitoring of the implementation of the COOMET Program of Comparisons online on the COOMET website.

*Note: DB on CMCs is temporarily not being maintained.*

The number of COOMET key and supplementary comparisons, the number of completed and published COOMET comparisons, the number (and percentage) of piloted COOMET comparisons by COOMET NMIs/DIs were analyzed within JCMS involving TC 4 as part of the report on the implementation of the Program of Comparisons and indicators of the COOMET Development Program for 2020-2022 to the COOMET Presidential Council.

## **7. NEXT TC 4 MEETING**

The next 21<sup>st</sup> meeting of TC 4 is scheduled for the period October 2024.

The online format of the meeting is an alternative option (in case of force majeure).

The final decision on the exact date and format of the meeting will be made by 15.06.2024 at the latest.

## **8. PROPOSALS FOR THE RESOLUTIONS OF THE COOMET COMMITTEE**

- To approve COOMET P4 "Work Program of TC 4 for 2024-2026" (COOMET P4/2021);
- To approve document COOMET D11 "Procedure for using the COOMET logo" (instead of COOMET D11/2016, project 853/BY-a/22);
- To approve updated recommendation COOMET R/TR/XX:202Y "COOMET trainings. Needs assessment, planning and organization of trainings. Monitoring of participation and satisfaction assessment" (COOMET project 829/BY-a/21);

➤ To approve updated recommendation COOMET R/TR/24:202Y "Programs of COOMET trainings. Content and design requirements. Development procedure" (clarification of the name and designation of the thematic area, instead of COOMET R/IT/24:2014, COOMET project 860/RU/22).



Ainur Rakhadinova,  
Acting Chair of TC 4