



**MINUTES
of the 23rd COOMET
TC 1.12 “Reference Materials” meeting**

14-15 September, 2018
Ekaterinburg, Russia



Secretariat of COOMET TC 1.12 “RMs”

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From Germany

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From Kazakhstan

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From Russia

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Alena Shleyning	COOMET Project Coordinator , Krastsvetmet, Research engineer, Krasnoyarsk
Marina Merkusheva	Krastsvetmet, Sales engineer, Krasnoyarsk
Svetlana Shushunova	West-Siberian Testing Centre, Head of Quality Control Department, Novokuznetsk
<u>From Ukraine</u> Oleg Rudavskiy	Representative from Ukraine at the meeting , Leading engineer at Ukrmetrteststandart, Kiev

Uzbekistan

Nuriddin Raymzhonov

Representative from Uzbekistan at the meeting, with the right of participation in the vote

Head of Department, Uzbek National Institute of Metrology
Tashkent

Murodzhon Zhabborov

Representative from Uzbekistan at the meeting,

Expert, Uzbek National Institute of Metrology
Tashkent

CHAIRPERSON:

Olga Kremleva

Deputy Chairperson of COOMET TC 1.12 “RMs”

THE OUTCOME OF THE MEETING AND ADOPTED RESOLUTIONS

Opening of the meeting

Ms. Kremleva, Deputy Chairperson of COOMET TC 1.12 “RMs”, opened the meeting. She greeted the Contact Persons of TC 1.12 and the experts in the area of RMs from COOMET member-countries and international organizations, taking part in the meeting, expressed her hope for fruitful cooperation and constructive results and wished the participants of the meeting successful and fruitful work.

Agenda item 1: Roll-call of the participants

Heads of the delegations identified themselves and the members of their delegations.

Agenda item 2: Adoption of the agenda

Following the discussion, the agenda was agreed and adopted ([Annex 2](#)).

Agenda item 3: Activities conducted by RM national bodies in the countries (presentation of information).

At the meeting the participants exchanged information on the progress, challenges, and the most important events and actions in the activity on reference materials in Belarus, Germany, Kazakhstan, Russia, Ukraine and Uzbekistan.

The information in written form was presented by the Contact Persons from Belarus, Kazakhstan, Russia, Slovakia and Uzbekistan ([Annexes 3.1, 3.2, 3.3, 3.4, 3.5 and 3.6 respectively](#)).

The decision was taken as follows:

To take the information into account.

Agenda item 4: Information on RM activities within international organizations ISO/REMCO, OIML TC 3/SC 3, NTCMetr WG RM, COOMET TC 1.8 “Physical Chemistry”

Under this item the contributions and presentations were made as follows:

- The activities of ISO/REMCO - Mr. Bremser, Germany;
- The activities of OIML TC 3/SC 3 - Ms. Kremleva, Russia;
- The activities on RMs in NTCMetr WG RM of CIS Interstate Council - Ms. Kremleva, Russia;
- The activities of COOMET TC 1.8 “Physical Chemistry” - Mr. Okrepilov, Russia.

The decision was taken as follows:

To express gratitude to the reporters for interesting presentations and to take into account the information on the activities of ISO/REMCO ([Annex 4.1](#)), OIML TC3/SC 3 ([Annex 4.2](#)), NTCMetr WG RM of CIS Interstate Council ([Annex 4.3](#)), COOMET TC 1.8 “Physical Chemistry” ([Annex 4.4](#)).

Agenda item 5: Information on the 16th COOMET JCMS meeting and the 28th COOMET Committee meeting

Ms. Kremleva informed the participants on the outcome and main decisions taken at the 16th meeting of COOMET Joint Committee on Measurement Standards and the 28th meeting of COOMET Committee with particular emphasis on the issues related to RM problem ([Annex 5](#)).

The decision was taken as follows:

1. To take the information into account.

Agenda item 6: Information of TC 1.12 Secretariat on the progress of the projects on RMs for the current period

Ms. Anfilatova presented information on behalf of TC 1.12 Secretariat on the progress of the projects on RM problem, carried out in the framework of COOMET Programme of Works ([Annex 6](#)).

The decision was taken as follows:

1. To take the information into account.

Agenda item 7: Discussion of the progress of the projects on COOMET CRM development

- 7.1 Project 358/RU/06 Development of CRMs of oxygenate volume (mass) fraction in petrol (3 types)
- 7.2 Project 521/RU/11 Development of CRMs for composition of calcium and zinc in oils (3 types)
- 7.3 Project 536/RU/11 Development of CRMs for sulphur microimpurities content in petroleum products (5 types)
- 7.4 Project 537/RU/11 Development of CRMs of ultimate temperature of diesel fuel filterability on a cold filter (2 types)
- 7.5 Project 538/RU/11 Development of CRMs of lead concentration in motor petrol (4 types)
- 7.6 Project 539/RU/11 Development of CRMs of iron concentration in motor petrol (4 types)
- 7.7 Project 617/RU/13 Development of CRM for composition of wolframite hubnerite concentrate (hard-alloy) – KVG(T)
- 7.8 Project 619/UA/13 Development of CRMs of Guinean and Guyanese bauxites composition for chemical and X-ray diffraction analyses
- 7.9 Project 620/UA/13 Development of CRM of disthene-sillimanite concentrate composition for chemical and spectral analyses
- 7.10 Project 632/UA/14 Development of CRM for composition of raw milk main components (set)
- 7.17 Project 729/RU/16 Development of CRM for composition (agrochemical parameters) of brown heavy-loamy alkali soil SASolP-05

Ms. Anfilatova presented brief information on the progress of the above listed projects on behalf of TC 1.12 Secretariat.

The decisions were taken as follows:

1. To take into consideration the information on the progress of the projects.
2. To request the Project Coordinators to continue the work on the projects according to the scheduled stages of work.
3. To request the Project Coordinators to submit information on the progress of the projects to the next meeting of TC 1.12.
4. To request the Contact Person from Ukraine in TC 1.12 to conduct work in excluding projects 619/UA/13, 620/UA/13, 632/UA/14 for the COOMET Programme of Works.

7.11 Project 659/RU/15 Development of CRM for composition of quartz concentrate (KK DODO deposit vein 233) – KK-233

7.12 Project 660/RU/15 Development of CRM for composition of quartz concentrate (KK Vyazov deposit vein 5) – KK-5

7.13 Project 661/RU/15 Development of CRM for composition of quartz concentrate (KK Karayan deposit vein 17) – KK- 17

7.14 Project 662/RU/15 Development of CRM for composition of quartz concentrate (KK Kyshtym deposit vein 175) – KK-175

Ms. Naumkina presented information on behalf of the the Project Coordinator on the progress of the projects. She informed the participants of the meeting that CRM material and Certification Programme have been prepared and sent to the participants of certification analyses: Belarus, Kazakhstan, Kyrgyzstan, Russia, Uzbekistan.

Scheduled stages of work on the projects: receipt and processing of certification analyses results; report preparation.

The decisions were taken as follows:

1. To take into consideration the information on the progress of the projects.
2. To request the Project Coordinator to continue the work and to present information on the progress of the projects to the next meeting of TC 1.12.

7.15 Project 700/RU/16 Pilot comparisons of CRM for composition of ferric ion solution

7.16 Project 701/RU/16 Pilot comparisons of CRM for composition of copper ion solution

The Project Coordinator Ms. Kremleva presented information on the progress of the projects. She informed the participants that it is suggested to conduct pilot comparisons of *CRM for composition of ferric iron (III) solution* and *CRM for composition of copper ion solution*, intended for verification, calibration and graduation of measurement instruments, certification of measurement procedures, accuracy control of measurement results and other metrological activities and control. The Project Coordinator prepared and sent a report A on the Project 701/RU/16 “Pilot comparisons of CRM for composition of copper ion solution” to the participant from Kazakhstan for agreement. Taking into account the comments received, the Project Coordinator prepared a report B, which is planned to be sent out to Contact Persons of TC 1.12 for consideration, based on the results of comparisons, of the possibility to recognize CRMs as COOMET CRMs.

A report A on the project for composition of ferric ion solution has been prepared and will be presented at the meeting for consideration.

Scheduled stages of work on the projects: conducting comparisons of CRM for composition of ferric ion solution; preparation of reports and documentation for the circulation among the Contact Persons of TC 1.12 for consideration of the possibility to recognize CRMs as COOMET CRMs by correspondence; submission of CRMs to the next COOMET Committee meeting for the recognition according to the established COOMET procedure.

The decisions were taken as follows:

1. To take into consideration the information on the progress of the projects.
2. To request the Project Coordinator to continue the work on the projects according to the scheduled stages of work.

7.18 Project 732/RU/17 Development of CRMs for composition of refined gold (set)

The project was initiated in October, 2017 after the 22nd meeting of TC 1.12 (Project Coordinator – Krastsvetmet, Krasnoyarsk, Russia)

Ms. Shleyning on behalf of the Project Coordinator informed the participants that Kazakhstan, Russia and Switzerland participated in the works on the project. The developed CRM for composition of refined gold (CRM set ZIN) was approved under the number GSO 10903-2017 according to the State Register of Russia. The report and documentation were sent to Contact Persons of TC 1.12 of COOMET member-countries for agreement by correspondence (March, 2018). Information on the possibility to recognize the CRM in question as COOMET CRM was received from Armenia, Belarus, Bulgaria. Taking into account sufficient number of positive approvals and agreement by correspondence, Secretariat of TC 1.12 recommended CRMs for composition of refined gold (CRM set ZIN) to be included in the List of RMs, agreed for the recognition as COOMET CRMs at the 28th COOMET Committee meeting (April, 2018). At the 28th

COOMET Committee meeting the CRM was approved as COOMET CRM and registered in the COOMET Register under **COOMET CRM 0115-2018-RU**. Armenia, Belarus, Bulgaria, Slovakia and Uzbekistan joined recognition of this CRM as COOMET CRM.

Developed CRMs for composition of refined gold (CRM set ZIN) are intended for calibration of measurement instruments, accuracy control of measurement results and certification of measurement procedures, used in the determination of composition of refined gold.

The decisions were taken as follows:

1. To take the information into consideration.
2. To express gratitude to the Project Coordinator – Mr. Shatnykh and participants of experimental research for the work conducted.
3. To request the Project Coordinator to prepare information on the results of the work for the journal “Reference Materials”.

7.19 Project 733/RU/17 Development of CRMs for composition of refined platinum (set)

The project was initiated in October, 2017 after the 22nd meeting of TC 1.12 (Project Coordinator – Krastsvetmet, Krasnoyarsk, Russia)

Ms. Shleyning on behalf of the Project Coordinator informed the participants that Bosnia and Herzegovina, Kazakhstan, Russia, Switzerland and Ukraine are planning to participate in the works on the project. The following materials have been prepared and sent out: programme of RM certification, RM material. Processing of certification analyses results and preparation of materials for approval and entering in the Register of the Russian Federation of RM type is being conducted.

Scheduled stages of work on the projects: preparation of reports and documentation on CRMs for the circulation among the Contact Persons of TC 1.12 for consideration of the possibility to recognize CRMs as COOMET CRMs by correspondence; submission of CRMs to the next COOMET Committee meeting for the recognition according to the established COOMET procedure.

The decisions were taken as follows:

1. To take into consideration the information on the progress of the project.
2. To request the Project Coordinator to continue the work on the project according to the scheduled stages of work.

7.20 Reference materials of the composition and properties for determination of quality parameters of petroleum and petroleum products

A report on “Reference materials of the composition and properties for determination of quality parameters of petroleum and petroleum products” was presented by an expert from D. I. Mendeleev Institute for Metrology (VNIIM), Ms. Neklyudova ([Annex 7.20](#)).

The decision was taken as follows:

1. To take the information into account.

8 Project 186/RU/99 The Programme of CRM joint production within COOMET

Ms. Kveglis from the Secretariat of TC 1.12 reported on the progress of updating the on-going project **186/RU/99**. She informed the participants on the work carried out in 2017-2018 and briefed on the content of the Programme submitted for consideration as of 15.09.2018.

The decisions were taken as follows:

1. To endorse the Programme of COOMET CRM joint production ([Annex 8](#)).

2. To take into consideration the information on the progress of the projects, provided by TC 1.12 Secretariat, Project Coordinators and TC 1.12 Contact Persons.

3. To request TC 1.12 Contact Persons to promote the work in their countries on the identification of participants within the proposed projects and on the preparation of additional proposals on CRM development for the inclusion in the Programme; to submit the proposals to TC 1.12 Secretariat **by 01.12.2018**.

4. To request the Project Coordinator to update the Programme, taking into account its consideration at the meeting and proposals received under sub-clause 8.3 of the minutes, to circulate it among the Contact Persons of TC 1.12 and to submit the updated version of the Programme for uploading on COOMET Web-portal (Web-page of TC 1.12).

5. To request the Project Coordinator to present the updated version of the Programme to the next meeting of TC 1.12.

Agenda item 9: Consideration of normative documents

9.1 Project 543/AM/11 Creation and maintaining of COOMET CRM Data Base

The Project Coordinator Ms. Kremleva presented information on the progress of the project. Submission of data to COOMET CRM DB in the prescribed form was considered at the meeting.

The decision was taken as follows:

1. To take the information on the progress of the project into consideration.
2. To request the Contact Persons of TC 1.12 to submit their comments and proposals to TC 1.12 Secretariat on the forms of CRMs included in COOMET CRM DB.
3. To request the Secretariat of TC 1.12 and the COOMET website administrator to update COOMET CRM DB.

9.2 Project 697/RU/16 Revision of COOMET Recommendation R/RM/22:2013 “Form and content of COOMET certificate for reference materials for composition and properties of substances and materials”

The Project Coordinator Ms. Kremleva presented information on the progress of the project. The 1st revision draft of COOMET Recommendation R/RM/22:2013 “Form and contents of COOMET certificate for reference materials for composition and properties of substances and materials” was prepared and submitted for consideration at the 21st meeting of TC 1.12.

The second revision draft is in the process of developing and harmonization with new editions of ISO Guides on RMs: **ISO Guide 30:2015**; **ISO Guide 31:2015**; **ISO Guide 33:2015**; and **ISO 17034:2016**.

The decisions were taken as follows:

1. To take the information on the progress of the project into consideration.
2. To request the Project Coordinator to prepare and circulate the 2nd draft Recommendation among the Contact Persons of TC 1.12 for agreement.
3. To request the Contact Persons of TC 1.12 to submit the comments and proposals on the 2nd draft Recommendation **within a month of the date of receipt**.
4. The decision on the submission of the draft document for approval by COOMET Committee will be taken on the recommendation of COOMET Quality Forum.

Agenda item 10: Information on the progress of the Register of COOMET CRMs and maintaining TC 1.12 “RMs” page of COOMET Web-portal

10.1 Ms. Anfilatova presented the Register of COOMET CRMs, updated as of 15.09.2018 (*Annex 10*).

Currently 115 CRM types are registered in the Register of COOMET CRMs, 20 of them are considered to be deleted.

As a result of updating in 2017-2018, the amendments concerning the renewal of Certificates for COOMET CRMs were introduced.

10.2 On-line editor of TC 1.12 page of COOMET Web-portal completed updating TC 1.12 page of COOMET Web-portal (address: www.coomet.net).

The decisions were taken as follows:

1. To take into consideration the information on the progress of the Register of COOMET CRMs and maintaining TC 1.12 “RMs” page of COOMET Web-portal.

2. To request COOMET Secretariat to submit the updated Register of COOMET CRMs for uploading on COOMET Web-portal (Web-page of TC 1.12).

3. To request the Contact Persons of TC 1.12 in concert with RM producers to review the Register of COOMET CRMs and to prepare proposals on its updating for items relating to their countries and submit it to TC 1.12 Secretariat by **01.12.2018**.

4. To request the Contact Persons in TC 1.12 and the participants of the meeting to periodically review the information, posted on COOMET sites: <http://www.coomet.net> and <http://www.coomet.org>

Agenda item 11: Any other business

11.1 Changes to the membership of TC 1.12

The information on the changes to the membership of TC 1.12 was provided by Ms. Kveglis (*Annex 11*).

The decision was taken as follows:

1. To take the information into consideration.

Agenda item 12: Date and venue of the next meeting, closure of the meeting.

12.1. To request the Contact Persons in TC 1.12 to consider the possibility of holding the next 24th meeting of TC 1.12 in the second half of 2019.

12.2. To request the Secretariat of TC 1.12 to agree upon the date and the venue of the 24th meeting of TC 1.12 “RMs” by correspondence.

12.3 To consider the project **759/RU/18** “Organization and holding the 23rd meeting of COOMET TC 1.12 “RMs” as finalized and to request the Project Coordinator to complete the form of the Final Report and to send it to COOMET Secretariat.

In her closing word Ms. Kremleva thanked the participants of the meeting for their active work and expressed the hope that all the works started in concert will have a good continuation.

HEADS OF DELEGATIONS:

Contact Person from Belarus in
COOMET TC 1.12 “RMs”



Ekaterina Filistovich

Contact Person from Germany in
COOMET TC 1.12 “RMs”



Wolfram Bremser

Contact Person from Kazakhstan in
COOMET TC 1.12 “RMs”



Gulzhan Aytzhanova

Contact Person from Russia in
COOMET TC 1.12 “RMs”



Olga Kremleva

Contact Person from Uzbekistan in
COOMET TC 1.12 “RMs”



Nuriddin Raymzhonov

Representative from Ukraine
without the right of vote



Oleg Rudavskiy