



**MINUTES  
of the 24<sup>th</sup> COOMET  
TC 1.12 “Reference Materials” meeting**

25 September, 2019  
Minsk, Belarus



**Secretariat of COOMET TC 1.12  
UNIIM**

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**CHAIRPERSON:**

Sergey Medvedevskikh

Chairperson of COOMET TC 1.12 “RMs”

## THE OUTCOME OF THE MEETING AND ADOPTED RESOLUTIONS

### *Opening of the meeting*

At the beginning of the meeting the President of COOMET Mr. V. Gurevich greeted participants of the meeting and wished them successful and fruitful work.

Mr. S. Medvedevskikh, the Chairperson of TC 1.12 opened the meeting. He greeted the Members of TC 1.12 the experts in the area of RMs from COOMET and the official representatives of EASC of CIS taking part in the meeting, expressed his hope for fruitful cooperation and constructive results of the meeting.

### **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, Bosnia and Herzegovina, Kazakhstan, Russia, Slovakia, Ukraine and Uzbekistan.

The information in written form was presented by the Contact Persons from Belarus, Bulgaria, Bosnia and Herzegovina, Kazakhstan, Russia, Slovakia, Ukraine and Uzbekistan ([Annex 3](#)).

#### **The decision was taken as follows:**

To take the information into consideration.

### **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. E. Sobina, Russia;
- The activities of OIML TC 3/SC 3 - Ms. Kremleva, Russia;
- The activities of 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 the information into consideration ([Annex 4](#)).

### **Agenda item 5: Information on the 17<sup>th</sup> COOMET JCMS meeting and the 29<sup>th</sup> COOMET Committee meeting**

Mr. S. Medvedevskikh informed the participants on the outcome and main decisions, taken at the 17<sup>th</sup> meeting of COOMET JCMS and the 29<sup>th</sup> 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 consideration.

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

Ms. O. Kremleva 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 Work Programme ([Annex 6](#)).

**The decision was taken as follows:**

1. To take the information into consideration.

***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)***

Ms. O. Kremleva briefed on the progress of the above listed projects according to the information, received from Ms. I. Tereshina.

Summing up the work done, the Project Coordinator informed the participants, that due to the fact that the validity period of the national CRM Certificates expired and was not extended by the deadlines, established by the relevant procedure, she considered the continuation of work to be further inexpedient and suggested that the above projects be deleted from the COOMET Work Programme.

**The decision was taken as follows:**

1. To take the information into consideration.
2. To request the Secretariat of TC 1.12 to carry out work on the deletion of projects from the COOMET Work Programme under the established procedure.

***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)***

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

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

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

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

***7.14 Project 729/RU/17 Development of CRM for composition (agrochemical parameters) of brown heavy-loamy alkali soil SaSolP-05***

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

**The decision was 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 Progress Reports on the projects to TC 1.12 Secretariats by **20.01.2020** for the preparation of the Annual Report of TC 1.12 and the information on the progress of the projects to the next meeting of TC 1.12.

#### ***7.7 Project 617/RU/13 Development of CRM for composition of wolframite hubnerite concentrate (hard-alloy) – KVG(T)***

The Project Coordinator Ms. I. Vasilieva presented information of the progress of the project. She informed the participants, that CRM material and Certification Programme were submitted to laboratories of Belarus, Bulgaria, Kazakhstan and Uzbekistan. The results of certification analysis were obtained from laboratories of Belarus, Kazakhstan and Uzbekistan in 2016. No results were obtained from Additional tests of CRM material was carried out in laboratories of Russia in 2016-2019. The data from new and previously carried out certification tests have been combined to prepare the final reporting documents for the approval of the CRM in the rank of GSO of the Russian Federation, which is a mandatory requirement in accordance with the regulations for the recognition of reference material as COOMET CRM.

Scheduled stages of work: preparation of the report and documentation on the CRM, submission these to TC 1.12 Secretariat to agree upon (by correspondence) the possibility of recognizing the CRM as COOMET CRM and submitting it to the next COOMET Committee meeting for approval as COOMET CRM.

#### **The decision was taken as follows:**

1. To take into consideration the information on the progress of the projects.
2. To request the Project Coordinator to prepare the report of the development of the COOMET CRM and submit it together with approved documentation on the CRM to TC 1.12 Secretariat for agreement and circulation among the Members of TC 1.12 with the view to consider the possibility of recognizing the CRM as COOMET CRM by correspondence.
3. To request the Members of TC 1.12 to submit their opinions on the possibility of endorsement of the report and CRM for composition of wolframite hubnerite concentrate (hard-alloy) – KVG(T) as COOMET CRM within a month after the receipt of documentation for the CRM.
4. To request TC 1.12 Secretariat in view of the results of the work performed under sub-clauses 7.7.2-7.7.3 of the present Minutes, and taking into consideration the information on the countries, which have joined their recognition, to include the CRM for composition of wolframite hubnerite concentrate (hard-alloy) – KVG(T) in the List of CRMs, recommended for the recognition as COOMET CRMs at the next COOMET Committee meeting (spring, 2010).
5. To request TC 1.12 Secretariat 1.12 to render guidance to the CRM producer in issuing the COOMET Certificate for the CRM in accordance with the requirements of COOMET Recommendation R/RM/22:2013.
6. To request the Project Coordinator to complete the form of the Final report.
7. To request the Project Coordinator to prepare information for the journal “Reference Materials”.

#### ***7.12 Project 700/RU/16 Pilot comparisons of CRM for composition of ferric ion solution***

#### ***7.13 Project 701/RU/16 Pilot comparisons of CRM for composition of copper ion solution***

The Project Coordinator Ms. O. Kremleva presented information on the progress of the projects. The content of the work is to carry out 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.

#### ***comparisons of CRM for composition of copper ion solution***

The Project Coordinator prepared and sent 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 Report B, which is planned to be circulated among the Members of TC 1.12 for consideration, based on the results of comparisons, of the possibility to recognize the CRMs as COOMET CRM.

*comparisons of CRM for composition of ferric ion solution (III)*

The Project Coordinator prepared and sent Report A on the Project 700/RU/16 “Pilot comparisons of CRM for composition of ferric ion solution” to the participant from Kazakhstan for agreement (May, 2019). The experts from Kazakhstan had no comments on the report. Report A is submitted for consideration at the meeting ([Annex 7.12](#))

Scheduled stages of work: preparation of the report and documentation on the CRMs, to be circulated among the Members of TC 1.12 for consideration of the possibility of recognizing the CRMs as COOMET CRMs by correspondence; submitting the CRMs to the next COOMET Committee meeting for approval according to the established COOMET procedure.

**The decision was 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 projects according to the scheduled stages of work.

#### ***7.15 Project 733/RU/17 Development of CRMs for composition of refined platinum (set)***

The Project Coordinator Mr. K. Shatnykh informed the participants on the progress of the project. He reported, that the development of the CRM set for composition of refined platinum, which includes 24 impurity elements, was completed. The CRM certified values were established during the interlaboratory experiment, based on at least 10 independent results obtained in 7 laboratories with experience in measuring such materials. Organizations from Russia and Switzerland participated in the interlaboratory experiment. CRMs for composition of refined platinum (CRM set PIA) were approved as national CRMs of Russia and registered in the Register of Approved CRMs under the numbers GSO 11082-2018 – GSO 11085-2018 (life time of the CRMs is 50 years).

The CRMs are intended for calibration of measurement instruments, certification of measurement procedures, used in the determination of composition of refined platinum; accuracy control of measurements, made according to measurement procedures in the determination of composition of refined platinum.

**The decision was taken as follows:**

1. To take the information into consideration
2. To request the Members of TC 1.12 from Bosnia and Herzegovina and Kazakhstan to provide assistance to the Project Coordinator in identification of the participants in the project.
3. To take into consideration, that the Project Coordinator will submit CRM material and Certification Programme to additional participants (if any) within a month.
4. To request the Members of TC 1.12 from Bosnia and Herzegovina and Kazakhstan to encourage participating laboratories to carry out analyses and submit the results to the Project Coordinator in the shortest possible time.
5. To request the Project Coordinator to continue the work according to the decisions taken.

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

Ms. O. Kremleva reported on the progress of updating the on-going project **186/RU/99**. She informed the participants on the work carried out in 2018-2019 and briefed on the content of the Programme submitted for consideration as of 25.09.2019.

**The decision was 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 the Members of TC 1.12.

3. To take into consideration the information on the inclusion in the Programme (part 2) of new projects proposed by the representatives of West-Siberian Testing Centre (Russia) Ms. S. Shushunova, A. P. Vinogradov Geochemistry Institute, Siberian Branch of the Russian Academy of Sciences Ms. E. Shabanova (Russia) and Krasnoyarsk V.N. Gulidov Non-ferrous Metal Plant (Russia) Mr. K. Shatnykh.

4. To request the Members of TC 1.12 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 20.01.2020**.

5. To request the Project Coordinator to update the Programme, taking into account its consideration at the meeting and proposals received under sub-clause 8.4 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).

6. 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 Review and agreement of results of Analysis of all effective COOMET documents on RMs for harmonization with newly published international documents: ISO Guide 30:2015; ISO Guide 31:2015; ISO Guide 33:2015, ISO 17034:2016; ISO Guide 35:2017.***

At the meeting Ms. O. Kremleva provided information on the Analysis of all effective COOMET documents on RMs for harmonization with newly published international documents: ISO Guide 30:2015; ISO Guide 31:2015; ISO Guide 33:2015, ISO 17034:2016; ISO Guide 35:2017, conducted by TC 1.12 Secretariat.

She presented information on the necessity and priority of reviewing all effective COOMET documents on RMs (*Annex 9.1.1*) and proposed to consider at the meeting the draft Plan for the review of COOMET documents on RMs (*Annex 9.1.2*) prepared in view of the results of analysis and to identify responsible experts and scheduled dates

#### **The decision was taken as follows:**

1. To take the information into consideration
2. To request the Members of TC 1.12 to submit proposals to TC 1.12 Secretariat regarding the preparation of the draft Plan for the review of COOMET documents on RMs by **20.01.2020**.
3. To request TC 1.12 Secretariat to complete the form of proposed COOMET project on the implementation of the Plan for the review of COOMET documents on RMs, taking into account sub-clause 9.1.2

#### ***9.2 Project 543/RU/11 Creation and maintaining of COOMET CRM Data Base***

*(according to the decision of the 15th meeting of COOMET TC 4 "Information and Training" (October, 2018), the project code was changed from "AM" to "RU" in connection with the appointment of new Project coordinators)*

The Project Coordinator Ms. O. 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 TC 1.12 Secretariat to submit the relevant templates of draft forms for valid COOMET CRMs to the Members of TC 1.12 from Belarus, Bulgaria, Kazakhstan and Ukraine by **10.01.2020**.
3. To request the Members of TC 1.12 to submit completed forms for COOMET CRMs to TC 1.12 Secretariat for formation and updating COOMET CRM DB on COOMET site by **30.01.2020**.

4. To request TC 1.12 Secretariat and the COOMET website administrator to update COOMET CRM DB.

***9.3 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. O. Kremleva presented the information on the progress of the project and the 2<sup>nd</sup> draft Recommendation, harmonized with new editions of ISO Guide 30:2015; ISO Guide 31:2015; ISO Guide 33:2015; and ISO 17034:2016.

**The decision was 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 2<sup>nd</sup> draft Recommendation among the Members of TC 1.12 for agreement **by 15.01.2020**, taking into account the discussion at the meeting.
3. To request the Members of TC 1.12 to submit the comments and proposals on the 2<sup>nd</sup> draft Recommendation **by 30.01.2020**.
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. O. Kremleva presented the Register of COOMET CRMs, updated as of 25.09.2019 to the Members of TC 1.12 at the meeting (*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 2018-2019, 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](http://www.coomet.net)).

**The decision was 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 TC 1.12 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 Members 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 30.01.2020**.
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 On the development of TC 1.12 activity within the subject-field of PRMP and RMP***

The Chairperson of TC 1.12, Mr. S. Medvedevskikh, raised the question about the possibility of developing TC 1.12 activity within the subject-field of primary reference (PRMP) and reference measurement procedures (RMP) in the framework of COOMET, noting promising areas of cooperation for their use, including:

- comparisons of measurement results using PRMP and RMP at the international level;
- the use of PRMP and RMP in the characterization of CRMs;
- creation and maintenance of COOMET Register of PRMPs and related CRMs;

- interaction with JCTLM (Joint Committee for Traceability in Laboratory Medicine);

Mr. S. Medvedevskikh also pointed out, that COOMET could become the main platform for carrying out such work in the Euro-Asian region and proposed to consider and agree by correspondence the question of whether it is feasible to include the project on this subject-field into the COOMET Work Programme from TC 1.12.

**The decision was taken as follows:**

1. To take the information into consideration.
2. To request the Members of TC 1.12 to submit their opinions on the development of TC 1.12 activity within the subject-field of primary reference (PRMP) and reference measurement procedures (RMP) in the framework of COOMET and on the feasibility of initiating the corresponding COOMET project **by 20.01.2020**.
3. To request TC 1.12 Secretariat on the basis of proposals under sub-clause 11.1.2 to carry out work on inclusion of a new topic on TC 1.12 activities of within the subject-field of primary reference (RMI) and reference measurement procedures (RMI) in the COOMET Work Program.

***11.2 Changes to the membership of TC 1.12***

The information on the changes to the membership of TC 1.12 was provided by Ms. O. Kremleva ([Annex 11](#)).

**The decision was taken as follows:**

1. To take the information into consideration.
2. To request the Members of TC 1.12 to timely provide the updated information on the changes to the membership of TC 1.12, when such need arises.

***11.3 Extension of the term of office of TC 1.12 Chairperson***

The question of reelection of TC 1.12 Chairperson was considered due to the expiry of his term of office in April 2020 according to COOMET Working Procedure.

Participants of the meeting pointed out a great contribution of the Chairperson of TC 1.12 in organizing the activity of the TC, headed by him. An active and productive work of TC 1.12 has been carried out during a long of time..

The participants of the meeting unanimously proposed to recommend Mr. S. Medvedevskikh for the post of TC 1.12 Chairperson for a new term.

**The decision was taken as follows:**

1. To express gratitude to Mr. S. Medvedevskikh for his successful performance of his duties of TC 1.12 Chairperson.
2. To nominate Mr. S. Medvedevskikh for approval by COOMET Committee as the Chairperson of TC 1.12 for a new term.

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

12.1. To request the Members of TC 1.12 to consider the possibility of holding the next 25<sup>th</sup> meeting of TC 1.12 in the second half of 2020.

12.2. To request TC 1.12 Secretariat of to agree upon the date and the venue of the 25<sup>th</sup> meeting of TC 1.12 “RMs” by correspondence.

12.3 To consider the project **793/RU/19** “Organization and holding the 24<sup>th</sup> 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 Mr. S. Medvedevskikh expressed the hope that all the works started in concert will have a good continuation and thanked the participants of the meeting for their active work and the hosts – BelGIM for high level of the meeting arrangements.

The participants of the meeting also thanked the representatives of BeGIM for their hospitality and excellent organization of the meeting.

Chairperson of COOMET TC 1.12 “RMs”

A handwritten signature in blue ink, appearing to read 'Sergey', with a stylized flourish at the end.

Sergey Medvedevskikh