



MINUTES
of the 21st COOMET
TC 1.12 “Reference Materials” meeting

13-14 September 2016
Ekaterinburg, Russia



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CHAIRMAN:

Sergey Medvedevskikh Chairman of COOMET TC 1.12 “RMs”

THE OUTCOME OF THE MEETING AND ADOPTED RESOLUTIONS

Opening of the meeting

Mr. S. Medvedevskikh, Chairman of COOMET TC 1.12 “RMs” opened the meeting. He 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 his 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 1](#)).

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

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, Moldova, Russia, Uzbekistan and Ukraine.

The information in written form was presented by the Contact Persons from Belarus, Kazakhstan and Russia ([Annexes 3.1; 3.2; 3.3](#) 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. W. Bremser, Germany;
- The activities of OIML TC 3/SC 3 - Mrs. E. Osintseva, Russia;
- The activities on RMs in NTKMetr WG RM of CIS Interstate Council
Mrs. E. Osintseva, Russia;
- The activities of COOMET TC 1.8 ”Physical Chemistry” - Mr. O. Anistratov.

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, OIML TC3/SC 3 ([Annex 4.1](#)), NTKMetr WG RM of CIS Interstate Council ([Annex 4.2](#)), COOMET TC 1.8”Physical Chemistry”.

Agenda item 5: Information on the 14th COOMET JCMS meeting and the 26th COOMET Committee meeting

Mr. S. Medvedevskikh informed the participants on the outcome and main decisions, taken at the 14th meeting of COOMET Joint Committee on Measurement Standards and the 26th 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 on the 39th ISO/REMCO meeting

Mrs. E. Osintseva reported on the organization and conducting the 39th ISO/REMCO meeting in Ekaterinburg (Russia) in June 2016 ([Annex 6](#)).

The decision was taken as follows:

1. To take the information into account.

Agenda item 7: Information of TC 1.12 Secretariat on the progress of the projects on RMs for the current period

Mrs. O. Anfilatova presented information on behalf of TC 1.12 Secretariat concerning the progress of the projects on RM problem, carried out in the framework of COOMET Programme of Works ([Annex 7](#)).

The decision was taken as follows:

- To take the information into account.

Agenda item 8: Discussion of the progress of the projects on COOMET CRM development

8.1 Project 358/RU/06 Development of CRMs of oxygenate volume (mass) fraction in petrol (3 types)

8.2 Project 521/RU/11 Development of CRMs for composition of calcium and zinc in oils (3 types)

8.3 Project 536/RU/11 Development of CRMs for sulphur microimpurities content in petroleum products (5 types)

8.4 Project 537/RU/11 Development of CRMs of ultimate temperature of diesel fuel filterability on a cold filter (2 types)

8.5 Project 538/RU/11 Development of CRMs of lead concentration in motor petrol (4 types)

8.6 Project 539/RU/11 Development of CRMs of iron concentration in motor petrol (4 types)

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

8.8 Project 619/UA/13 Development of CRMs of Guinean and Guyanese bauxites composition for chemical and X-ray diffraction analyses

8.9 Project 620/UA/13 Development of CRM of disthene-sillimanite concentrate composition for chemical and spectral analyses

8.10 Project 632/UA/14 Development of CRM for composition of raw milk main components (set)

Mrs. O. Anfilatova 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 the information on the progress of the projects to the next meeting of TC 1.12.
4. To request the Project Coordinator from Ukraine in TC1.12 to submit the information on the progress of the projects 619/UA/13, 620/UA/13, 632/UA/14 by **01.12.2016** for the preparation of the annual report of TC 1.12.

8.11 Project 648/RU/14 Development of CRM of mass fraction of metals in slag of copper smelting production (SHM)

The Project Coordinator Mr. E. Sobina presented the information on the progress of the project. The participants of certification analyses are currently agreed upon (Belarus, Bulgaria, Kazakhstan, Turkey-TÜBITAK-UME); the certification programme is prepared, CRM material is circulated; the results of certification analyses are obtained from laboratories of Belarus and Kazakhstan. The results are not obtained from Bulgaria and Turkey (TÜBITAK- UME).

Scheduled stages of work: preparation of the report and the circulation of the report and documentation among the Contact Persons of TC 1.12 for consideration of the possibility to recognize CRM as COOMET CRM by correspondence; submission of CRM to the next COOMET Committee meeting for the recognition 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 project according to the scheduled stages of work.

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

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

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

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

The Project Coordinator Mrs. O. Ilyicheva presented the information on the progress of the project. The participants of certification analyses are currently agreed upon (Belarus, Kazakhstan, Uzbekistan). CRM material and Certification Programme are prepared.

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 and to present the information on the progress of the projects to the next meeting of TC 1.12.
3. To recommend UNIIM to participate in measurements in the framework of the above listed projects.

8.16 Project 698/RU/16 Work on the recognition of CRM for composition of potassium biphthalate of the 1st order, included in Appendix C CIPM MRA as COOMET CRM

8.17 Project 699/RU/16 Work on the recognition of CRM for composition of potassium bichromate of the 1st order, included in Appendix C CIPM MRA as COOMET CRM.

The Project Coordinator Mrs. E. Osintseva presented the information on the progress of the project. The projects were initiated in July 2016. The proposal was to conduct the procedure for the recognition of CRM for composition of potassium biphthalate of the 1st order and CRM for composition of potassium bichromate of the 1st order, included in Appendix C CIPM MRA as COOMET CRMs according to the COOMET Recommendation R/RM/4:2008.

MRA CRMs may be recognized as COOMET CRMs as agreed upon by the parties or as the results of comparisons within COOMET, or on the basis of additional information in the form of the data on publications in international journals or on peer review, provided by the author in support to

the calibration and measurement capabilities. Reports on comparisons, as well as additional information are considered at the meetings of relevant COOMET TCs.

At the meeting the presentation on the given projects was delivered by Mrs. A. Sobina, a leading engineer, custodian of State measurement standard 176-2013 (Laboratory of physical and chemical methods of metrological certification, UNIIM) (*Annex 8.16-17*).

Scheduled stages of work on the projects: preparation of the report 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 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 project according to the scheduled stages of work.

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

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

The Project Coordinator Mrs. E. Osintseva presented the information on the progress of the project. The projects were initiated in July 2016. The proposal was 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 comparisons are relevant due to the need of comparing the degree of equivalence of reference materials to be compared for the demonstration of the capability to obtain compatible measurement results in testing laboratories of COOMET member-countries and other countries, which use these reference materials; establishing the possibility of mutual replacement of reference materials to be compared in their use in accordance with their purpose; the implementation of sub-clause 5.12 of ISO Guide 34:2009 by the user of reference materials. The pilot NMI (UNIIM) plans and conducts comparisons with participation (by decision of the pilot NMI) of organizations of COOMET member-countries, following the rules of COOMET and having technical competence for each particular case.

Scheduled stages of work on the projects: conducting CRM comparisons, preparation of the report 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 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 project according to the scheduled stages of work.

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

Mrs. O. Anfilatova 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 2015-2016 and briefed on the content of the Programme, submitted for consideration as of 13.09.2016.

The decision was taken as follows:

1. To endorse the Programme of COOMET CRM joint production (*Annex 9*).
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 of certification analyses 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 **01.12.2016**.
4. To request the Project Coordinator to update the Programme taking into account its consideration at the meeting and proposals, received under sub-clause 9.3 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 10: Consideration of normative documents

10.1 Project 543/AM/11 “Creation and maintaining of COOMET CRM Data Base”

The Project Coordinator Mrs. E. Osintseva presented the information on the progress of the project. The report of the creation and maintaining of COOMET CRM Data Base (*Annex 10.1*), provided by the Project Coordinator V. Bugaev (VNIIFTRI, Russia), was also presented at the meeting.

The meeting considered the following issues:

- the possibility of including in COOMET CRM DB and Register of reference materials, produced by NMIs of COOMET member-countries and included in BIPM data base of calibration and measurement capabilities;
- the feasibility of developing a Classifier of COOMET CRMs at this moment;
- submission of data to COOMET CRM DB in the prescribed form.

The decision was taken as follows:

1. To take the information on the progress of the project into consideration.
2. To request the Contact Person from Belarus in TC 1.12 to consider the possibility of acting as the Coordinator of the project on the development of Classifier of COOMET CRMs.
3. 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.

10.2 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 Mrs. E. Osintseva presented the information on the progress of the project. She reported, that the 1st revision draft 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 it for consideration at the meeting (*Annex 10.2*). The need for revision of Recommendation is due to the issue of new editions of ISO Guides on RMs:

ISO Guide 30:2015 “Reference materials – Selected terms and definitions”;

ISO Guide 31:2015 “Reference materials – Contents of certificates, labels and accompanying documentation”;

I ISO Guide 33:2015 “Reference Materials – Good practice in using reference materials”.

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 2nd draft Recommendation among the Contact Persons of TC 1.12 by **30.10.2016** for agreement taking into account comments and proposals, received at the meeting.

3. To request the Contact Persons of TC 1.12, to submit the comments and proposals on the the 2nd draft Recommendation by **30.11.2016**.

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

11.1 Mrs. O. Anfilatova presented the Register of COOMET CRMs, updated as of 13.09.2016 (*Annex 11*).

Currently 111 CRM types are registered in the Register of COOMET CRMs, 16 of them are considered to be deleted.

As a result of updating in 2016, the amendments, concerning the renewal of Certificates for COOMET CRMs, were introduced for 10 national CRM types.

11.2 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 decision was taken as follows:

1. To take into consideration the information on the progress of the Register and Databank “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 **01.12.2016**.

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 12: Any other business

12.1 Changes to the membership of TC 1.12

The information on the changes to the membership of TC 1.12 was provided by Mrs. O. Anfilatova (*Annex 12*).

The decision was taken as follows:

1. To take the information into consideration..

Agenda item 13: Date and venue of the next meeting, closure of the meeting.

13.1. To request Central Scientific Research Institute of Geology of Industrial Minerals (Kazan, Russia) to consider the possibility of holding the next 22nd meeting of TC 1.12 in September 2017 in Kazan.

13.2. To request the Contact Person from Kazakhstan in COOMET TC 1.12 to consider the possibility of holding the 23rd meeting of TC 1.12 in September 2018 in Astana.

13.3 To consider the project **702/RU/16** “Organization and holding the 21st 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 his closing word Mr. S. Medvedevskikh 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”		Vera Donbaeva
Representative from Moldova		Ana Chubara
Contact Person from Russia in COOMET TC 1.12 “RMs”		Sergey Medvedevskikh
Contact Person from Uzbekistan in COOMET TC 1.12 “RMs”		Larisa Kim
Representative from Ukraine		Andrey Glebov