



**MINUTES
of the 20th COOMET
TC 1.12 “Reference Materials” meeting**

18-19 September 2015
Ekaterinburg, Russia



Secretariat of COOMET TC 1.12 “RMs”

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Oleg Anistratov	Representative of COOMET TC 1.8 “Physical Chemistry”, All-Russian D.I. Mendeleev Research Institute for Metrology, Leading engineer, S. Petersburg
<u>From Uzbekistan</u> Larisa Kim	Contact Person from Uzbekistan in COOMET TC 1.12 “RMs”, Leading Researcher, Head of Department of Reference Materials and QCA Measurement Procedures, Scientific and Research Institute for Standardization, Metrology and Certification, “Uzstandart” Agency. Tashkent

CHAIRMAN:

Sergey Medvedevskikh	Chairman of COOMET TC 1.12 “RMs”
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THE OUTCOME OF THE MEETING AND ADOPTED RESOLUTIONS

Opening of the meeting

Mrs. E. Osintseva, Deputy Chairman 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.

Roll-call of the participants

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

Agenda item 1: Adoption of the agenda

Following the discussion the agenda was agreed and adopted ([Annex 1](#)).

Agenda item 2: Activities, conducted by national bodies for RMs 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 and Uzbekistan.

The information in written form was presented by the Contact Persons from Belarus, Kazakhstan, Russia, Slovakia, Ukraine and Uzbekistan ([Annexes 2.1; 2.2; 2.3; 2.4; 2.5; 2.6](#) respectively).

The decision was taken as follows:

To take the information into account.

Agenda item 3: Information on RM activities within international organizations ISO/REMCO, CASCO, 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 and COMAR - Mr. W. Bremser, Germany;
- The activities of OIML TC 3/SC 3 and CASCO - 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 and COMAR ([Annex 3.1](#)), OIML TC3/SC 3 ([Annex 3.2](#)), CASCO ([Annex 3.3](#)), NTKMetr WG RM of CIS Interstate Council ([Annex 3.4](#)), COOMET TC 1.8”Physical Chemistry” ([Annex 3.5](#)).

Agenda item 4: Information on the 13th COOMET JCMS meeting and the 25th COOMET Committee meeting

Mr. S. Medvedevskikh informed the participants on the outcome and main decisions, taken at the 13th meeting of COOMET Joint Committee on Measurement Standards and the 25th meeting of COOMET Committee, with particular emphasis on the issues, related to RM problem ([Annex 4](#)).

The decision was taken as follows:

1. To take the information into account.

Agenda item 5: 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 5](#)).

The decision was taken as follows:

To take the information into account.

Agenda item 6: Discussion of the progress of the projects on COOMET CRM development

6.1 Project 418/RU/08 Development of CRM for composition of ilmenite concentrate (SO-35)

6.2 Project 466/RU/09 Development of CRM for composition of zirconium concentrate (SO-36)

Mrs. O. Anfilatova presented information on the progress of the projects according to the data, submitted by the Project Coordinator Mrs. T. Voropaeva.

Summing up the work done, Coordinator reported that in 2014-2015 for a number of organizational and economic circumstances no work was conducted on the projects 418 / RU / 08 and 466 / RU / 09 at JSC "West Siberian Testing Centre". Resumption of work in 2015-2016 is not planned. The producer makes her apologies and requests to delete the projects from COOMET Program of Works.

The Project Coordinator expresses her deep gratitude to all participants of the work and to COOMET Secretariat for research, they conducted, highly qualified methodical assistance and friendly and patient cooperation.

The decision was taken as follows:

1. To request the Project Coordinator to prepare and submit to COOMET Secretariat the forms of final reports on the projects.

2. To request COOMET Secretariat to conduct the work on the deletion of the projects from COOMET Program of Works according to the established procedure.

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

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

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

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

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

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

Mrs. O. Anfilatova presented information on the progress of the projects according to the data, submitted by the Project Coordinator Mrs. I. Tereshina. The Project Coordinator informed the participants, that the works on the projects **538/RU/11** and **539/RU/11** are finalized. The reports and documentation on CRMs are submitted to TC 1.12 Secretariat for agreement. The works on the projects **558/RU/11**, **521/RU/11**, **536/RU/11**, **537/RU/11** are finalized and are at the stage of preparation of reports, which, together with documentation on CRMs will be also submitted to the Secretariat of TC 1.12 and further circulated among the Contact Persons of TC 1.12 for consideration of the possibility to recognize them as COOMET CRMs by correspondence and to present to the next COOMET Committee meeting for approval.

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 continue the work on the projects according to the scheduled stages of work.
3. To request the Secretariat of TC 1.12 to submit the reports on the development of COOMET CRMs together with approved documentation on CRMs to the Contact Persons of TC 1.12 for agreement and consideration of the possibility of their recognition as COOMET CRMs by correspondence.
4. To request the Contact Persons of TC 1.12 to submit their opinions on the possibility to approve the report and recognize the CRM as COOMET CRM within a month after they receive the CRM documentation.
5. To request the Secretariat of TC 1.2, in view of the results of the works, carried out under clauses 3 and 4 (see above) and taking into consideration the information on the countries, which joined their recognition, to include the CRMs in the List of CRMs, recommended for the recognition as COOMET CRMs at the 26th COOMET Committee meeting (spring 2016).
6. To request the Secretariat of TC 1.12 to carry out the range of works on the recognition and registration of the CRM as COOMET CRM in compliance with the requirements of COOMET Recommendations R/RM/4:2008 and R/RM/5:2010.
7. To request the Secretariat of TC 1.12 to render methodical assistance to CRM producer in the issue of COOMET Certificate for CRMs in compliance with the requirements of COOMET Recommendations R/RM/22:2013.
8. To request the Project Coordinator to prepare and submit to COOMET Secretariat the forms of Final Reports on the projects.
9. To request the Project Coordinator to prepare the information on the results of the work for the journal "Certified Reference Materials".

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

The Project Coordinator Mrs. I. Vasilieva presented the information on the progress of the project. She reported, that the participants of certification analysis were agreed upon and CRM material and Certification Programme were circulated. The information on the completed stages of CRM development and the results of analysis, obtained by participants were also presented. CRM material and Certification Programme were submitted to laboratories of Belarus, Bulgaria, Kazakhstan and Uzbekistan. The results of certification analyses are currently obtained from Belarus, Kazakhstan and Uzbekistan. The results are not obtained from Bulgaria. The project is assigned the status of Agreed Project.

Scheduled stages of work: for 2016 the preparation of the final report, submitting it for consideration to the Contact Persons of TC 1.12 with the view to agree upon the possibility to recognize the CRM as COOMET CRM at the 21st meeting of COOMET TC 1.12 (provided the report is ready by 01 March 2016, the agreement will be conducted by correspondence) and submission of the report to the next COOMET Committee meeting for recognition the CRM as COOMET CRM.

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.
3. To request the Project Coordinator to present the information on the progress of the project to the next meeting of TC 1.12.

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

Mrs. O. Anfilatova presented the information on the progress of the project according to the data, submitted by the Contact Person from Ukraine Mr. A. Ivkov. She informed the participants, that the work on the project is finalized. 2 CRM types of Guinean and Guyanese bauxites

composition for chemical and X-ray diffraction analyses are developed and approved as national CRMs of Ukraine. (**DSZU 123.61-2013** and **DSZU 123.62-2013**). Certificates for **DSZUs** are received.

The decision was taken as follows:

1. To take into consideration the information on the progress of the project.
2. To request the Contact Person from Ukraine to prepare and submit the report on the development of COOMET CRMs together with approved documentation on the CRMs to the Secretariat of TC 1.12 for agreement and further circulation among the Contact Persons of TC 1.12 with a purpose to consider the possibility to recognize the CRMs as COOMET CRMs by correspondence.
3. To request the contact Persons of TC 1.12 to submit their opinions on the possibility to approve the report and CRMs of Guinean and Guyanese bauxites composition for chemical and X-ray diffraction analyses as COOMET CRMs within a month after they receive the documentation on DSZUs.
4. To request the Secretariat of TC 1.12, in view of the results of the works, carried out under sub-clauses 8.10.2 – 8.10.3 of the minutes and taking into consideration the information on the countries, which joined their recognition, to include the CRMs of Guinean and Guyanese bauxites composition for chemical and X-ray diffraction analyses in the List of CRMs, recommended for the recognition as COOMET CRMs at the 26th COOMET Committee meeting (spring 2016).
5. To request the Secretariat of TC 1.12 and the Project Coordinator to carry out the range of works on the recognition and registration of the CRMs as COOMET CRMs in compliance with the requirements of COOMET Recommendations R/RM/4:2008 and R/RM/5:2010.
6. To request the Contact Person from Ukraine to render methodical assistance to CRM producer in the issue of COOMET Certificate for CRMs in compliance with the requirements of COOMET Recommendations R/RM/22:2013.
7. To request the Project Coordinator to prepare the form of Final Reports.
8. To request the Project Coordinator to prepare the information on the results of the work for the journal “Certified Reference Materials”.

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

Mrs. O. Anfilatova presented the information on the progress of the project according to the data, submitted by the Contact Person from Ukraine Mr. A. Ivkov. In 2013 the Project Coordinators developed CRM material preparation procedure, CRM certification programme and procedure, technical requirements for CRMs, prepared CRM material and samples for stability study. The developed documentation was approved by the Main Centre of RM State Service of Ukraine based on positive results of metrological examination. In 1914 the works on the development of CRM of disthene-sillimanite concentrate composition for chemical and spectral analyses were suspended, but in 2015 the works were again resumed. The certification measurements on the determination of the values and errors of CRM certified characteristics were carried out.

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.
3. To request the Project Coordinator to present the information on the progress of the project to the next meeting of TC 1.12.

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

Mrs. O. Anfilatova presented the information on the progress of the project according to the data, submitted by the Contact Person from Ukraine Mr. A. Ivkov. In 2015 the work was continued.

The Project Coordinator conducted experimental works on homogeneity and stability study of CRMs for composition of raw milk, the results are in the course of processing.

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.
3. To request the Project Coordinator to prepare the form of Agreed Project and to submit it to the Secretariat of TC 1.12 for further submission to COOMET Committee members and inclusion in COOMET Programme of Works and Data Base.
4. To request the Project Coordinator to present the information on the progress of the project to the next meeting of TC 1.12.

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

The Project Coordinator Mrs. E. Gorbunova presented the information on the progress of the project. She informed the participants, that the participants of certification analyses are currently agreed upon (Belarus, Bulgaria, Kazakhstan, Turkey); 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 (TÜBİTAK-UME).

Scheduled stages of work: in August - September 2015 reporting measurement results; September – October 2015 the preparation and agreement of a preliminary report of the creation of CRM, March-April 2016 the preparation and agreement with TC 1.12 Secretariat of a final report of the creation of COOMET CRM; 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 CRMs 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.
3. To request the Project Coordinator to present the information on the progress of the project to the next meeting of TC 1.12.

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

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

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

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

Mrs. O. Anfilatova presented the information on the progress of the project according to the data, submitted by the Project Coordinator Mrs. T. Romanova.

She reported, that the participants (Belarus, Kazakhstan, Uzbekistan) of certification analysis are agreed upon. 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.

6.18 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 the project **186/RU/99**. She informed the participants on the work, carried out in 2014-2015 and briefed on the content of the Programme, submitted for consideration as of 18.09. 2015.

The information on the content of works on the project for initial consideration “Development of CRM for composition (agrochemical parameters) of brown heavy-loamy alkali soil SASolP-05” (p. 11, section 2 of the Programme) was provided by the author of the project Mrs. G. Stupakova.

The decision was taken as follows:

1. To endorse the Programme of COOMET CRM joint production ([Annex 6.18](#)).
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 ([Annex 6.18.1](#)).
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 **01.12.2015**.
4. To request the Project Coordinator to update the Programme taking into account its consideration at the meeting and proposals, received under sub-clause 6.18.3 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 7: Consideration of normative documents

7.1 Project 498/RU/10 Development of publication “COOMET Recommendation. The content and procedure of works on CRM comparisons within COOMET”.

The Project Coordinator Mrs. E. Osintseva informed the participants on the progress of the project. She informed the participants, that the 3rd version of COOMET draft recommendation “The content and procedure of works on CRM comparisons within COOMET” ([Annex 7.1](#)) was prepared and preliminary circulated among the Contact Persons of TC 1.12. Positive response on the 3rd version of the draft recommendation was received from the Contact Person of Kazakhstan.

At the meeting Mrs. E. Osintseva set out the basic provisions of the 3rd version of the draft recommendation, finalized with a view to work out the approach to mathematical treatment of CRM comparison results in line with other international documents in this area.

The decision was taken as follows:

1. To take into consideration the information on the progress of the project.
2. To request the Contact Persons of TC 1.12, to submit the comments and proposals on the the 3rd version of COOMET draft recommendation “The content and procedure of works on CRM comparisons within COOMET” ([Annex 7.1](#)) by **30.10.2015**.
3. Following COOMET procedure for preliminary agreement of COOMET draft documents, to request the Project Coordinator to submit the 3rd version of COOMET draft recommendation to the Chairman of COOMET JCMS for circulation among the Chairmen of the relevant COOMET TCs for agreement, taking into consideration that the deadline is 2 weeks.
4. To request the Project Coordinator in view of the comments and proposals, received from the relevant COOMET TCs to prepare and circulate for agreement among TC 1.12 members the final draft Recommendation with a compilation of comments by **01.12.2015**.
5. To request the Contact Persons of TC 1.12 to submit their comments and proposals on the final version of the draft “COOMET Recommendation. The content and procedure of works on CRM comparisons within COOMET” by **30.12.2015**.
6. To request the Project Coordinator to submit the agreed final draft Recommendation to TC 1.12 Secretariat by **01.02.2016** for subsequent submission to COOMET Committee meeting.

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

Project Coordinators Mr. V. Bugaev and Mrs. E. Osintseva presented the information on the progress of the project. Proposals on COOMET draft Recommendation R/RM/___:20__”Procedure for completing the Form of COOMET database” were provided.

Special attention was paid to the question of the possibility to include in COOMET CRM DB and Register reference materials, produced by NMIs of COOMET member-countries and included in BIPM data base of calibration and measurement capabilities.

At the meeting the Project Coordinator Mr. V. Bugaev prepared and presented COOMET CRM BD User’s Guide.

The decision was taken as follows:

1. To take the information on the progress of the project into consideration.
2. To request the Secretariat of TC 1.12 to translate into English COOMET CRM BD User’s Guide and submit it to the Project Coordinator Mr. V. Bugaev.
3. To request the Project Coordinator Mr. V. Bugaev to provide access to COOMET CRM BD User’s Guide on COOMET site.
4. To request the Project Coordinator Mrs. E. Osintseva to finalize and submit to the Secretariat of TC 1.12 the draft Recommendation COOMET R/RM/___:20__”Procedure for completing the Form of COOMET database” in view of decisions, taken at the meeting, for circulations among the Contact Persons of TC 1.12. To request the Contact Persons of TC 1.12 to submit their comments and proposals on the finalized draft Recommendation COOMET R/RM/___:20__”Procedure for completing the Form of COOMET database” in view of decisions, taken at the meeting, by **30.10.2015**.
5. To request the Secretariat of TC 1.12 to submit the agreed draft Recommendation COOMET R/RM/___:20__”Procedure for completing the form of COOMET database” to COOMET Secretariat for approval at the JCMS and COOMET Committee meetings (spring 2016) by established procedure.
6. To request the Chairman of TC 1.12 to inform TC 1.8 on the possibility to include in COOMET CRM DB and Register reference materials, produced by NMIs of COOMET member-countries and included in BIPM data base of calibration and measurement capabilities.

Agenda item 8: Information on the progress of the Register and Databank “COOMET CRMs” and maintaining TC 1.12 “RMs” page of COOMET Web-portal

8.1 Mrs. O. Anfilatova presented the Register of COOMET CRMs, updated as of 18.09.2015 ([Annex 8](#)).

Currently 111 CRM types are registered in the Register of COOMET CRMs, 15 of them are considered to be deleted.

As a result of updating in 2015, 1 type of national CRM of Ukraine, approved as COOMET CRM at the 25th COOMET Committee meeting, was registered in the Register of COOMET CRMs and the amendments, concerning the extensions of national Certificate validity periods, were introduced for 12 national CRM types.

Proposals were received on the deletion of 1 national CRM of Kazakhstan from the Register COOMET CRMs. The List of certified reference materials, agreed for the deletion from the Register of COOMET CRMs ([Annex 8.1](#)) was prepared for submission to the 26th COOMET Committee meeting.

8.2 On-line editor of TC 1.12 page of COOMET Web-portal completed the works on 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 present 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 consider 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 **01.06.2016**.

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 9: Any other business

9.1 On the proposal of a new COOMET project on measurement assurance in the creation of CRMs of substances and materials, constructing scales.

The information on a new COOMET project on measurement assurance in the creation of CRMs of substances and materials, constructing scales was presented by Mr. S. Medvedevskikh.

The decision was taken as follows:

1. To take the information into consideration.

9.2 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.

The decision was taken as follows:

1. To take the information into consideration.
2. To request the Secretariat of TC 1.12 to prepare letters of appreciation to the Contact Persons of TC 1.12 Mrs. A. Andriesh and Mr. A. Ivlov for successful performance of their duties.

9.3 Extension of the term of office of TC 1.12 Chairman

The question of reelection of TC 1.12 Chairman was considered due to the expiry of his term of office in April 2016 according to COOMET Working Procedure.

Participants of the meeting pointed out a great contribution of the Chairman of TC 1.12 in organizing the activity of the TC, headed by him. An active and productive work of TC 1.12 was mentioned in the annual report of COOMET President.

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

The decision was taken as follows:

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

Agenda item 10: Date and venue of the next meeting, closure of the meeting.

1. To request the Secretariat of TC 1.12 to decide on the venue of the 21st meeting of TC 1.12 by correspondence till 01.11.2015.

To consider the project **663/RU/15** “Organization and holding the 20th 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:

Representative from Belarus



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:



Anatoly Beskupsky

Contact Person from Russia in
COOMET TC 1.12 “RMs”



Sergey Medvedevskikh

Contact Person from Uzbekistan in
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Larisa Kim