



MINUTES
of 21th meeting of the Technical Committee COOMET
TC 1.4 “Flow Measurement”

Online

October 13, 2023

Attended by:

- 1 Aramayis Harutyunyan – member of TC 1.4 (Armenia);
- 2 Alexsandr Bardonov – member of TC 1.4 (Belarus);
- 3 Soso Rogava – member of TC 1.4 (Georgia);
- 4 Nurlan Davletyarov – member of TC 1.4 (Kazakhstan);
- 5 Marina Denisova – member of TC 1.4 (Kyrgyzstan);
- 6 Roman Korneev – Chair of TC 1.4 (Russian Federation);
- 7 Bakhtiyor Ashurov – member of TC 1.4 (Tajikistan);
- 8 Nuriddin Raymjonov – member of TC 1.4 (Uzbekistan);
- 9 Ainur Rakhadinova – Head of COOMET Secretariat (Kazakhstan);
- 10 Zhanibek Sakenov – RSE “Kazstandart” (Kazakhstan);
- 11 Aiman Ilgundinova – RSE “Kazstandart” (Kazakhstan);
- 12 Nikita Zviagin – VNIIM (Russian Federation);
- 13 Ilya Shmigelskiy – VNIIM (Russian Federation);
- 14 Konstantin Popov – VNIIM (Russian Federation);
- 15 Victor Chechel – VNIIM (Russian Federation);
- 16 Olga Shabalina – Executive Secretary TC 1.4 (Russian Federation);
- 17 Alexey Shchelchkov – VNIIM (Russian Federation);
- 18 Anatoly Yakovlev – VNIIM (Russian Federation);
- 19 Albert Tukhvatullin – VNIIM (Russian Federation);
- 20 Damir Kudusov – VNIIM (Russian Federation);
- 21 Lyaisan Musabirova – VNIIM (Russian Federation);
- 22 Alisher Botirov – UzNIIM (Uzbekistan).

OPENING OF THE MEETING

Chair of TC 1.4 opened the meeting and welcomed the TC 1.4 members and guests of the meeting.

Considering the requirements for the quorum at the COOMET structural body meeting in accordance with the document COOMET D5/2021, **the quorum at the TC 1.4 meeting of was ensured.**

Members of TC 1.4 from 15 COOMET member countries were appointed, 13 countries participate in the quorum calculation, since TC 1.4 members from 2 countries have the status of “observer” (Bulgaria, Slovakia). The quorum is provided with the participation of representatives of 6 countries or more. The meeting was attended by TC 1.4 members from 8 countries.

ADOPTION OF THE MEETING AGENDA

After the introduction of the meeting participants, the technical committee adopted the following agenda:

№	Issue	Speaker
1	On decisions of the COOMET Committee and the COOMET President's Council of concerning TC activities	A. Rakhadinova
2	About COOMET projects in the field of «Flow measurement»	
2.1	Work on the COOMET project 760/RU-a/18 "Supplementary comparisons of national standards in the field of liquid flow and mass in the flow range from 0.1 to 45 t/h" (COOMET.M.FF-S10), pilot – VNIIM, Russia	A. Tukhvatullin
2.2	Work on the COOMET project 852/RU-a/21 "Supplementary comparisons of national standards in the field of gas flow and volume at gas flow rate from 0.4 to 100 m ³ /h" (COOMET.M.FF-S11), pilot – VNIIM, Russia	A. Yakovlev
3	Discussion of the results of the analysis of possibility and necessity of applying the algorithm of actions to complete long-term COOMET comparisons	
3.1	Project 452/SK-a/09 "Comparisons of calibration laboratories in the field of cold water flowmetry in the flow range (3-20) m ³ / h"(COOMET.M.FF-S4), pilot –SMU, Slovakia	R. Korneev
3.2	545/UA-a/11 "Comparisons of complex of static volume measuring devices" (COOMET.M.FF-S6), pilot – NSC "IM", Ukraine	R. Korneev
4	Consideration of proposals of TC 1.4 members on the organization of comparisons for CEEMS	TC 1.4 members
5	Development of COOMET Recommendation "Flow transducers, flow meters, volumetric and mass liquid meters. Calibration method"	R. Korneev
6	Consideration of issues of updating the list of technical experts for CMC review	R. Korneev
7	Discussion of the feasibility of combining TC 1.6 with TC 1.4 on the KCDB platform and within the organizational structure of COOMET	R. Korneev
8	Any other business	Participants of the meeting
9	Date and place of the next meeting	R. Korneev,

RESULTS OF THE MEETING

After hearing and discussing the reports and messages on the agenda, the meeting participants made the following decisions:

On the item 1 of the agenda

1. Take note of the information on the decisions of the COOMET Committee and the COOMET President's Council of concerning TC activities.

On the item 2 of the agenda

1. Take note of the information on the progress of comparisons on project 760/RU-a/18 "Supplementary comparisons of national standards in the field of water flow rate and volume in the flow range from 0.1 to 45 t/h" (COOMET.M.FF-S10).
2. Take note of the information about sending the Draft B report to comparison participants on project 760/RU-a/18 for approval.
3. Comparison participants on project 760/RU-a/18 should review and approve the Draft B report by November 17, 2023.
4. Take note of the information on the progress of preparation for comparisons on project 852/RU/21 "Supplementary comparisons of national standards in the field of gas flow and volume at gas flow rate from 0.4 to 100 m³/h" (COOMET.M.FF-S11).
5. Comparison participants should continue to carry out comparisons on project 852/RU/21 in accordance with the technical protocol.
6. Coordinator of comparisons after receiving measurement results from all comparison participants on project 852/RU/21 should prepare the Draft A report to be sent to the comparison participants for approval.

On the item 3 of the agenda

1. Take note of the information on the results of comparisons on project 452/SK-a/09 "Comparison of cold water flow calibration laboratories in a range of flow rates (3 - 20) m³/h" (COOMET.M.FF-S4).
2. Coordinator of comparisons on topic 452/SK-a/09 should complete the comparisons procedure in accordance with the requirements of the BIPM.
3. Take note of the information on the progress of comparisons on project 545/UA-a/11 "Comparisons of complex of static volume measuring devices" (COOMET.M.FF-S6).
4. Due to the proposal of the coordinator of comparisons (NSC "IM" (Ukraine)) to exclude GEOSTM (Georgia) from the list of comparison participants based on the results of an open vote (for – 8, against – 0, abstained – 0), it was decided to exclude GEOSTM (Georgia) from composition of comparison participants on project 545/UA-a/11.
5. Coordinator of comparisons on project 545/UA-a/11 should prepare the Draft A report to be sent to the comparison participants for approval.

On the item 4 of the agenda

1. Take note of the proposals of VNIIM (Russia) on the organization of comparisons for CEEMS.
2. Members of TC 1.4 should consider the draft form of the proposed project "Supplementary comparisons of national standards in the field of water flow rate and volume in the flow range from 0.1 to 45 t/h". If you are interested in participating, send the completed questionnaire to TC 1.4 by November 17, 2023.
3. VNIIM (Russia) should prepare and send draft forms for the proposed project "Comparisons in the field of measurements of static volume of liquid", "Comparisons in the

field of measurements of air flow speed” to TC 1.4 by November 30, 2023 to organize the consideration of proposals on the 22nd meeting of TC 1.4.

On the item 5 of the agenda

1. Take note of the information on the progress of COOMET recommendation “Flow transducers, flow meters, volumetric and mass liquid meters. Calibration method”.

2. The developer should prepare a translation of the COOMET recommendation “Flow transducers, flow meters, volumetric and mass liquid meters. Calibration method” and submit it to TC 1.4 for subsequent distribution for approval to members of TC 1.4 by October 31, 2023.

3. TC 1.4 members should consider the draft of the COOMET recommendation by November 30, 2023.

On the item 6 of the agenda

1. Take note of the information on updating the list of COOMET technical experts on the review of CMCs.

2. Based on the results of open voting (for – 8, against – 0, abstained – 0) to exclude Victor Grushka (National Institute of Metrology (Moldova)) and Sargsyan Karapet (CJSC "NBSM" (Armenia)) from the list of COOMET technical experts on the review of CMCs.

3. Based on the results of open voting (for – 8, against – 0, abstain – 0) include Alexey Shchelchikov (Heat flow) (VNIIM (Russia)), Konstantin Popov (Flow speed, quantity of fluid) (VNIIM (Russia)), Kudusov Damir (Multiphase flow) (VNIIM (Russia)) as a member of COOMET technical experts on the review of CMCs.

4. The Chair of TC 1.4 should send information about updating the list of technical experts on the review of CMCs to the COOMET Secretariat.

5. Members of TC 1.4 should send proposals to the list of COOMET technical on the review of CMCs by November 30, 2023.

On the item 7 of the agenda

1. Take note of the information about feasibility of combining TC 1.6 with TC 1.4 on the KCDB platform and within the organizational structure of COOMET.

2. Based on the results of open voting (for – 8, against – 0, abstained – 0), approve combining TC 1.6 with TC 1.4 on the KCDB platform and within the organizational structure of COOMET.

On the item 8 of the agenda

1. Take note of the information about the COOMET webinar “Assessing uncertainty in calibration” on October 25, 2023.

2. The Chair of TC 1.4 should consider the possibility of developing training materials in accordance with the area of activity of TC 1.4 in 2024.

On the item 9 of the agenda

1. Consider it expedient to hold the next online meeting of the TC 1.4 in December 15, 2023.
2. Members of TC 1.4 should send proposals and questions of interest to the TC 1.4 for discussion at the 22 meeting of TC 1.4, by November 30, 2023.

Roman Korneev
Chair of TC 1.4