

INFORMATION ON COOMET ACTIVITIES in 2018–2019 for 13th EURAMET GA

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GENERAL INFORMATION

The COOMET activities were performed in all main fields of cooperation:

- MEASUREMENT STANDARDS OF PHYSICAL UNITS
- LEGAL METROLOGY
- QUALITY MANAGEMENT SYSTEMS
- INFORMATION AND TRAINING
- JOINT RESEARCH IN METROLOGY.

COOMET MEMBERS

Now 21 countries cooperate within COOMET: Azerbaijan, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, China, Cuba, DPR of Korea, Georgia, Germany, Kazakhstan, Kyrgyzstan, Lithuania, Moldova, Romania, Russia, Slovakia, Tajikistan, Turkey, Ukraine and Uzbekistan.

COOMET EVENTS

1. Meetings of the Structural Bodies of COOMET

The following meetings were held in 2018–2019:

- 29th meeting of **COOMET Committee** (3–4 April 2019, Dresden, Germany);
- 23rd meeting of **COOMET Presidential Council** (27–29 November 2018, Minsk, Belarus);
- 16th meeting of **Joint Committee for Measurement Standards** (2 April 2019, Dresden, Germany).

Meetings of the **Technical Committees** of COOMET in 2018–2019:

- **TC 1.2** "Acoustics, ultrasound, vibration" (17–18 September 2018, Gebze, Turkey);
- **TC 1.3** "Electricity and magnetism" (16–18 October 2018, Baku, Azerbaijan);
- **TC 1.4** "Flow measurement" (5 September, 2018, Kazan, Russia);
- **TC 1.5** "Length and angle" (11–12 December 2018, Kharkiv, Ukraine);
- **TC 1.6** "Mass and related quantities" (28–30 August 2018, Sarajevo, Bosnia and Herzegovina);
- **TC 1.7** "Photometry and radiometry" (3–7 September 2018, Havana, Cuba);
- **TC 1.8** "Physical chemistry" (23–24 May 2018, Saint-Petersburg, Russia);
- **TC 1.9** "Ionizing radiation and radioactivity" (18–20 September 2018, Saint-Petersburg, Russia);

- **TC 1.10** "Thermometry and thermal physics" (11–14 September 2018, Tbilisi, Georgia);
- **TC 1.11** "Time and frequency" (21–23 March 2018, Moscow, Russia);
- **TC 1.12** "Reference materials" (14–15 September 2018, Ekaterinburg, Russia);
- **TC 2** "Legal metrology" (17 May 2018, Moscow, Russia);
- **TC 3.1** "Quality Forum Technical Committee" (3–4 October 2018, Tbilisi, Georgia, and 26–27 March 2019, Kishinev, Moldova);
- **TC 4** "Information and training" (24–25 October 2018, Gebze, Turkey).

2. 29th COOMET Committee Meeting

29th COOMET Committee meeting was held on 3–4 April 2019 in Dresden, Germany. Specialists from 16 countries (Armenia, Belarus, Bosnia and Herzegovina, Germany, Georgia, Kazakhstan, China, Cuba, Kyrgyzstan, Lithuania, Moldova, Russia, Slovakia, Tajikistan, Uzbekistan, Ukraine) took part in the event, as well as representatives of international metrology organizations (Bureau International des Poids et Mesures – BIPM, International Organization of Legal Metrology - OIML) and representatives of regional metrology organizations (EURAMET, WELMEC and APMP). Representatives of the State Measurement Standard Centre of the Main State Service "Turkmenstandartlary" attended the meeting as guests.

COOMET Committee approved the Regulation on the Working Group for Preparation of the COOMET Development Strategy and its membership (Mr. Valery Hurevich, COOMET President, was appointed as the Chairperson of the Working Group). It was agreed during the meeting to prepare till the end of the year 2019 a draft COOMET Development Program for 2020–2022 and to conduct a survey/interview of the participants of cooperation within COOMET for the purposes of the external assessment "Status and perspectives of COOMET" performed within the framework of the PTB-COOMET project "Assistance to regional trade and support of consumer rights protection for COOMET member-countries".

The following decisions were made with regard to COOMET structural bodies:

1) to extend the term of office of the Chairpersons of the following Technical Committees for 4 years:

- Joint Committee for Measurement Standards: Mrs. Anna Chunovkina (VNIIM, Russia);
- TC 1.1 "General questions concerning measurements (General Metrology)": Mrs. Anna Chunovkina (VNIIM, Russia);
- TC 1.4 "Flow measurement": Mr. Victor Fafurin (VNIIR, Russia);
- TC 1.9 "Ionizing radiation and radioactivity": Mr. Nikolai Moiseev (VNIIM, Russia).
- TC 4 "Information and training": Mr. Pavel Neyezhmakov (NSC "IM", Ukraine);

2) to change the name of SC 4.1 to "Capacity building in education and knowledge transfer" and to appoint Mrs. Yuliya Bunyayeva (NSC "Institute of Metrology", Ukraine) as its Chairperson.

COOMET Committee requested the COOMET President to sign on behalf of COOMET an updated Protocol of cooperation and interaction in the field of metrology between COOMET and EASC (signing shall take place in June 2019 at the EASC meeting).

During the meeting of the COOMET Committee the results of work of COOMET structural bodies over the past year were considered, in particular in terms of implementation of CIPM MRA (review of CMCs, comparisons of national measurement standards, evaluation of Quality Management Systems (QMS) of National Metrology Institutes (NMI) and Designated Institutes (DI) of COOMET member countries etc.), legal metrology, information and training of metrologists, as well as various events held under the auspices of COOMET in 2018–2019.

Taking into account the 26th CGPM meeting, the Resolution 1 of CGPM was discussed regarding redefinition of the SI units and tasks of COOMET structural bodies and NMIs of COOMET member countries, related to these resolutions. It was agreed to hold a workshop "Redefinition of

the International System of Units (SI)" in October 2019 at the premises VNIIM named after D.I. Mendeleev, Saint Petersburg, Russia, and to translate the Brochure "The International System of Units (SI)" (version of 2019) into the Russian language following its official publication on the BIPM website.

In connection with the CIPM MRA documents update COOMET Committee supported a proposal of the Chairperson of the Joint Committee for Measurement Standards to start a COOMET project "Translation and introduction in COOMET practice of a suite of new versions of the CIPM MRA documents, including CIPM document "Recommendations of the Working Group for CIPM MRA implementation and application".

Extended discussion took place concerning APMP proposals on carrying out hybrid comparisons – it was suggested to discuss this issue both in CIPM Consultative Committees and in COOMET TCs.

An updated version of the COOMET Program of Comparisons (as of 3 April 2019) was signed by the COOMET President.

COOMET Committee supported previously approved by the COOMET Presidential Council Policy and Plan of the Technical Committee of the COOMET Quality Forum related to the transition to ISO 17034:2016 and ISO/IEC 17025:2017 for the evaluation of QMS of COOMET NMIs and Dis, as well as Work Program of TC2 "Legal Metrology" for 2019–2020.

The participants were informed about preparation for the VIII International Competition "The Best Young Metrologist of COOMET – 2019" (5–6 June 2019, Kazan, Russia).

Representatives of BIPM, OIML, EURAMET, WELMEC and APMP delivered reports on activities of the above mentioned organizations.

PARTICIPATION IN THE MEETINGS OF INTERNATIONAL AND REGIONAL METROLOGY ORGANIZATIONS

In 2018 (the second half of the year) and in 2019 official COOMET representatives participated in the meetings of the following metrology organizations promoting COOMET activities:

- 12th EURAMET General Assembly (28 May – 1 June 2018, Bucharest, Romania);
- the meeting of the Round table of the Regional Metrological Organizations for Legal metrology (8–12 October 2018, Hamburg, Germany);
- 34th APMP General Assembly (29–30 November 2018, Singapore);
- 40th meeting of JCRB (13–14 March 2019, Paris, France).

Representatives of the NMIs and DIs of COOMET member-countries also participated in the following meetings of international and regional organizations:

- 26th meeting of the General Conference on weights and measures (13–16 November 2018, Versailles, France);
- 108th CIPM meeting (March 2019);
- 53rd CIML (8 -12 October, 2018, Hamburg, Germany);
- meetings of OIML Presidential Council (October 2018 and March 2019);
- 54st meeting of Euro-Asian Council for Standardization, Metrology and Certification (EASC) (28–30 November, 2018, Kishinev, Moldova).

INFORMATION ON COOMET ACTIVITIES

1) Implementation of COOMET projects

The general amount of projects registered by COOMET Secretariat since 1991 is **781 projects** as of 10 May 2019.

In 2018–2019 **41 new projects** were proposed during the reporting period:

- 8 projects – for the field "Mass and Related Quantities",
- 8 projects – for the field "Legal Metrology",
- 5 projects – for the field "Thermometry and thermal physics"
- 5 projects – for the field "Physical chemistry",
- 4 projects – for the field "Photometry and radiometry"/"Information and training",
- 4 projects – for the field "Length and Angle",
- 2 projects – for the field of "Electricity and magnetism",
- 2 projects – for the field "Ionizing radiation and radioactivity",
- 1 project – for the field "Reference Materials",
- 1 project – for the field "Flow measurement",
- 1 project – for the field "Acoustics, ultrasound, vibration".

29 proposed projects are related to carrying out COOMET comparisons (key, supplementary, pilot) of measurement standards for physical units, 5 projects are aimed at arrangement and holding of Structural Bodies, as well as events within COOMET, 6 projects are aimed at translation of international recommendations and documents of COOMET, 2 projects – at training of specialists.

In 2018–2019 **70 projects** were **completed**.

2) Preparation and registration of COOMET publications

In 2018 new and updated versions of the following publications were approved by the COOMET Committee and registered by the Secretariat:

- **Recommendation COOMET R/T/33:2018** "Calibration of resistance thermometers by direct comparison" (new);
- **Document COOMET D5.1/2018** "Regulation on the Joint Committee for Measurement Standards" (updated).

In 2019 the following COOMET publications, prepared by COOMET structural bodies, were approved by the COOMET Committee and registered by the Secretariat:

- **Document COOMET D7/2019** "Regulation on giving the distinguished title of "Honorary metrologist of COOMET" (updated);
- **Information Material COOMET I/LM/8:2019** "Overview on the progress with prepackages control in COOMET member countries" (new);
- **Information Material COOMET I/LM/9:2019** "Metrological Supervision performed by metrological services of legal entities. General Principles" (new);
- **Recommendation COOMET R/AQ/9:2019** "Recommendation on the evaluation of Quality Management Systems of National Metrology Institutes" with Annexes (updated);
- **Recommendation COOMET R/AQ/13:2019** "Rules and Procedure for the Evaluation of Quality Management Systems of National Metrology Institutes of COOMET" with Annexes (updated).

3) Implementation of the CIPM MRA

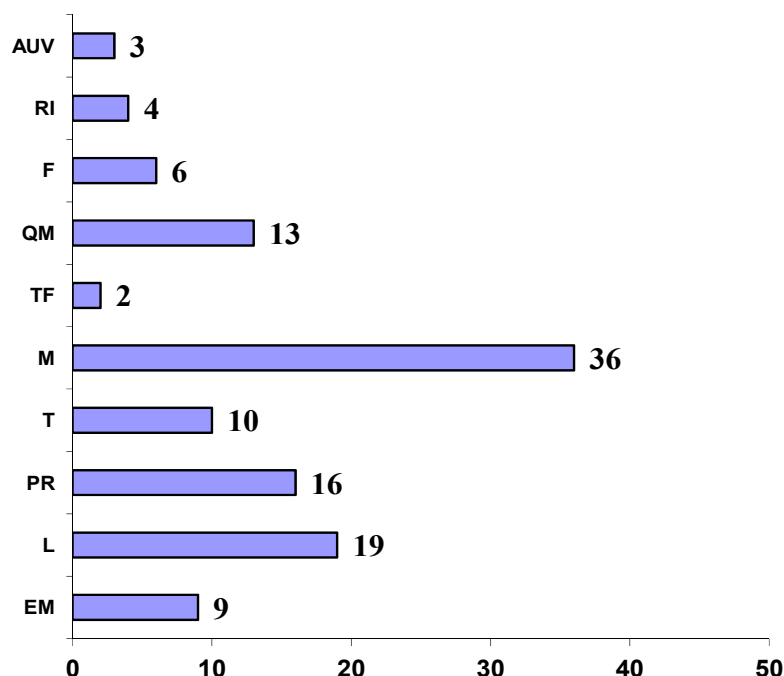
3.1. Publication of CMC entries

2526 CMC entries via COOMET were published in the KCDB as of 31 March 2019 (date when the latest statistics was published), including those by countries and types of measurements:

Country	Total	AUV	EM	L	M	F	PR	QM	RI	T	TF
		330	1108	391	512	107	283	2367	1073	731	273
Azerbaijan	1				1						
Belarus	248	31	42	16	10		11	19	51	37	31
Georgia	30		16		5					9	
Kazakhstan	69		5	6	17			7		9	25
Cuba	113		17		12				76	8	
Moldova	43			1					2	40	
Russia	1747	72	326	23	64	6	110	638	329	143	36
Uzbekistan	0										
Ukraine	275	30	57	27	11	3	6	33	15	63	30

All COOMET comparisons are given in **COOMET Document P2/2019** "COOMET Program of Comparisons" (approved as of 03.04.2019). Interactive version of the Program is available on the COOMET web-site http://www.coomet.org/tc_prj/2019/D9_EN.htm.

COOMET Program of comparisons for 2019 (as of 10.05.2019) contains **118 current projects**. Distribution of COOMET projects by fields of cooperation is shown in the diagram.



In 2019 6 of the new projects are related with regional comparisons of measurement standards of physical units:

Project number		Project name
773/UA/19	M	Supplementary bilateral comparisons in the field of sub-milligram mass measurement
775/RU/19	AQ	Pilot comparisons to determine the electrical conductivity of potassium chloride solutions of 25 Cm/m and 10 $\mu\text{m}/\text{cm}$
776/BY/19	L	Key comparison of standards in the field of measurement of 3D parameters of surface texture
777/BY/19	T	Pilot comparisons of standards for relative humidity units
780/RU/19	T	Comparisons of national reference gas calorimeters using samples of gas mixtures
781/UZ/19	PR	Bilateral pilot comparison of spectral regular transmittance from 400 to 1000 nm

3.2. Recognition of QMS of COOMET NMI/DI

Recognition of NMI/DI QMS (ISO/IEC 17025)

NMI/DI	Satus QMS	Conformation of recognition	Date	Valid date	Metrological areas
VNIIM (Russia)	recognized	QSF-R39	27.08.2015	27.08.2020	AUV, EM, L, RI, T, M, QM
VNIOFI (Russia)	recognized	QSF-R34	27.08.2015	27.08.2020	PR, QM
VNIIFTRI (Russia)	recognized	QSF-R36	27.08.2015	27.08.2020	AUV, EM, RI, T, M, QM, TF
VNIIMS (Russia)	recognized	QSF-R38	27.08.2015	27.08.2020	L, EM
BelGIM (Belarus)	recognized	QSF-R40	10.05.2016	10.05.2021	AUV, EM, RI, T, M, QM, TF, L, PR
NSC "Institute of Metrology" (Ukraine)	recognized	QSF-R44	10.05.2016	10.05.2021	EM, RI, T, M, TF, L, PR
SE "Ukrmetrteststandard" (Ukraine)	recognized	QSF-R42	10.05.2016	10.05.2021	AUV, EM, M, L, PR, QM
SNIIM (Russia)	recognized	QSF-R45	15.02.2017	15.02.2022	EM
SE "NDI Systema" (Ukraine)	recognized	QSF-R46	15.02.2017	15.02.2022	AUV
UNIIM (Russia)	recognized	QSF-R47	15.02.2017	15.02.2022	EM, T, L, QM, M
INIMET (Cuba)	recognized	QSF-R56	04.10.2018	04.10.2023	M, L, QM, T, TF
CENTIS (Cuba)	recognized	QSF-R55	04.10.2018	04.10.2023	RI
CPHR (Cuba)	recognized	QSF-R57	04.10.2018	04.10.2023	RI
SE "Ivano-Frankivskstsndartmetrologia" (Ukraine)	recognized	QSF-R54	04.10.2018	04.10.2023	M
KazInMetr (Kazakhstan)	recognized	QSF-R37	27.08.2015	27.08.2020	M, L, QM, T, TF
VNIIR (Russia)	recognized	QSF-R49	15.02.2017	15.02.2022	M
NMI (Moldova)	recognized	QSF-R52	31.01.2018	31.01.2023	EM, T, RI, M, L, PR
GeoSTM (Georgia)	recognized	QSF-R58	04.10.2018	04.10.2023	EM, M, T, RI, L
AzMI(Azerbaijan)	recognized	QSF-R53	31.01.2018	31.01.2023	T, RI, EM, M

Recognition of NMI/DI QMS (ISO Guide-34)

NMI/DI	Satus QMS	Conformation of recognition	Date	Valid date	Metrological areas
VNIIM (Russia)	recognized	QSF-R33	27.08.2015	27.08.2020	Gases, Organic solutions, Inorganic solutions, Electrolytic conductivity
VNIOFI (Russia)	recognized	QSF-R35	27.08.2015	27.08.2020	Inorganic solutions, Metal and metal alloys, Biological fluids and materials
BelGIM (Belarus)	recognized	QSF-R41	10.05.2016	10.05.2021	Gases, pH, Electrolytic conductivity
Ukrmetrteststandart (Ukraine)	recognized	QSF-R43	10.05.2016	10.05.2021	Gases, pH, Electrolytic conductivity
UNIIM (Russia)	recognized	QSF-R48	15.06.2017	15.02.2022	High purity chemicals, Organic solutions, Inorganic solutions, Advanced materials, Food, Surfaces, films and engineered nanomaterials
KazInMetr (Kazakhstan)	recognized	QSF-R51	15.02.2017	15.02.2022	Gases, pH

4) Knowledge Transfer

4.1 Course "Train the trainer": transitioning to ISO/IEC 17025:2017 in the CIPM MRA

The COOMET representatives participated in the Course "Train the trainer": transitioning to ISO/IEC 17025:2017 in the CIPM MRA" which was held on 23–24 May 2018 at the BIPM, France. 23 participants from 17 countries, representing 6 Regional Metrology Organizations (RMOs) – AFRIMETS, APMP, COOMET, EURAMET, GULFMET and SIM, took part in the course.

The aim of the "Train the trainer" course was to assist RMOs in the implementation of ISO/IEC 17025:2017 and its application to the CIPM MRA. The course content was designed in consultation with the lecturers to meet the objectives of the course. All sections of the standard were discussed in detail; lecturers explained the background to key clauses in the standard and the specifics in their application to the CIPM MRA. As an outcome of these discussions, participants jointly developed cross references and gap analysis tables to describe the actions that the NMIs/DIs have to take that were not done previously. In addition, participants prepared key elements for an NMI implementation transition plan and for an RMO review implementation transition plan.

The Program of Course included the following issues:

- Common understanding of the new edition of ISO/IEC 17025;
- Training the trainers, including development of materials that can be used at the RMO level for further knowledge transfer;
- Transparent RMO processes on QS.

4.2 Workshop "Redefinition of the SI units"

The one-day workshop "Redefinition of the SI units" was held on 4 September 2018 in Varadero, Cuba, within the meeting of TC 1.7 "Photometry and Radiometry".

The workshop was attended by 18 specialists-metrologists from 13 COOMET member-countries (Azerbaijan, Belarus, Bosnia and Herzegovina, Cuba, China, Germany, Georgia, Kazakhstan, Moldova, Russia, Slovakia, Ukraine and Uzbekistan), as well as lecturer of Peter Blattner, Head of

photometry and radiometry laboratory of METAS, Elected president of CIE.

The goal of the workshop – how redefinition of SI units will influence fundamental unit Cd and its impact on the measurements techniques.

4.3 COOMET seminar on the OIML Certification System (OIML-CS) "Promoting Global Harmonization for Measuring Instruments"

The COOMET seminar on the OIML Certification System (OIML-CS) "Promoting Global Harmonization for Measuring Instruments" was held on 15 of May 2018 in Moscow, Russia.

The Program included the following issues:

- Introduction and general information on the OIML Certificate Systems
- OIML Recommendations and their role in OIML -CS;
- Expected benefits of the new OIML-CS;
- Implementation and operation of the OIML-CS;
- Important topics concerning the OIML-CS.

Representatives from 14 COOMET member-countries (Azerbaijan, Armenia, Belarus, Bosnia and Herzegovina, Germany, Kazakhstan, Kyrgyzstan, Moldova, Russia, Slovakia, Tajikistan, Turkey, the Ukraine and Uzbekistan) were participated in the seminar.

4.4 International Conference OIML-COOMET "Worldwide uniform requirements on prepackages - Basis for fair trade and consumer protection"

The International Conference OIML-COOMET "Worldwide uniform requirements on prepackages – Basis for fair trade and consumer protection" was held on 16 of May 2018 in Moscow, Russia.

The Program included the following issues:

- Introduction into the topic of the Conference and overview about regulation in COOMET countries;
- International harmonization in the area of prepackages and measuring instruments – The role of the OIML;
- Worldwide uniform requirements on prepackages: Important OIML recommendations and guides;
- Labelling and accuracy requirements for prepackages;
- Misleading packaging practices, how they affect consumers and fair competition;
- Example of countries.

4.5 Training Workshop on Food Safety Measurement Standards and Technologies

The Training Workshop on Food Safety Measurement Standards and Technologies was held on 21 October – 9 November 2018 in Beijing, China and organized by NIM to share knowledge and technical experience in food safety measurement and standards, communicate with international colleagues on the needs and challenges facing and discuss on potential cooperation. Also, this workshop is the implementation of a project of COOMET TC 4 "Information and Training".

The Program of Training Workshop included the following issues:

- General knowledge and experience as well as technical files on chemical metrology and food safety
 - Activities related to food safety organized by international and regional metrology

- organizations, e.g. BIPM/CCQM, APMP/TCQM and APMP FSFG;
- Introduction on related international guidelines, laws and technical regulations;
- Introduction to food risk evaluation, control and management;
- Introduction by participant on current status and challenges of food safety in their home country;
- CRMs and its quality system as well as technologies and proficiency test on food safety measurement
 - Regulations on ISO REMCO CRMs;
 - CRMs preparation and its quality system;
 - Detection of the organic and inorganic elements in food;
 - Food safety measurement proficiency test (PT).

4.6 Workshop "Implementing the updated requirements of the new version ISO/IEC 17025 in the Quality Management System of NMIs/DIs"

The Workshop "Implementing the updated requirements of the new version ISO/IEC 17025 in the Quality Management System of NMIs/DIs" was held on 05–07 February 2019 in PTB Braunschweig, Germany. The workshop was attended by 28 metrologists from 10 COOMET member-countries (Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Germany, Kyrgyzstan, Moldova, Russia, Ukraine and Uzbekistan), as well as lecturers from PTB – Martin Czaske, Andreas Odin, Kai Stoll-Malke, Magda Kemper, Beate Kulesa.

The workshop was focused on effective implementation of the revision and its application in the Quality Management System at NMIs/DIs. The agenda of the workshop included the following topics:

- Historical survey and main changes of revision ISO/IEC 17025
- Detailed review of ISO/IEC 17025:2017
- Management system requirements
- Process approach
- Decision rules
- Information technologies
- Risk-based thinking
- Metrological traceability
- Competence of Personnel

4.7 COOMET–BIPM Workshop "CIPM MRA review outcomes: comparisons and CMCs"

2 April 2019, Dresden, Germany, the one-day COOMET–BIPM workshop was held for the Chairpersons of TC 1.1 – TC 1.12, TC 3.1 due to the expected revision of the CIPM MRA within the BIPM Capacity Building & Knowledge Transfer Programme (CB&KT) and also SC 4.1 "Capacity building in the field of education and knowledge transfer".

The workshop was attended by 50 specialists-metrologists – Heads of COOMET Technical Committees and invited guests from 14 COOMET member-countries (Armenia, Belarus, Bosnia and Herzegovina, China, Cuba, Germany, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Ukraine and Uzbekistan), as well as representatives of international and regional metrology organizations – Andy Henson, Head of International Liaison and Communication Department of BIPM; Chingis Kuanbayev, specialist of International Liaison and Communication Department of BIPM; Ian Dunmill, Assistant Director of the BML; Wolfgang Schmid, EURAMET Member Service Manager.

The goal of the workshop – development of recommendations for coordinating the actions of the TCs Chairpersons when introducing new approaches aimed at improving the efficiency and effectiveness of the CIPM MRA processes.

The agenda of the workshop included 4 sections with the following topics:

1. Representative CMCs (broad scope)
 - CIPM MRA requirements on CMCs;
 - Recommendations of the WG on the implementation and Operation of the CIPM MRA;
 - Use of equations for uncertainty determination and matrices to reduce the number of CMCs;
 - Better consistency in the expression of CMCs (e.g. units, uncertainty ranges);
 - Avoiding of artificial subdivision of CMCs;
 - Percentage of coverage by CMCs = metric of success;
 - *Discussion: What approach has been adopted to ensure concise CMCs (matrices and broad scope) and to avoid artificial subdivision?*
2. Reducing workload
 - CMC review process
 - Recommendations of the WG on the implementation and Operation of the CIPM MRA
 - "Efficient and effective review" = "risk based approach"
 - Sharing the workload = distribution of CMCs among reviewers
 - *Discussion: What are the things you do/are going to do to reduce the workload?*
3. Interpretation of comparisons
 - CIPM MRA requirements on comparisons
 - Recommendations of the WG on the implementation and Operation of the CIPM MRA
 - "Silent" comparisons
 - "How far the light shine" approach to indicate coverage of CMCs.
 - Available evidences supporting CMCs when not covered by comparison.
 - *Discussion: Experiences on interpretation of KCs and SCs as widely as is reasonable.*
4. Sharing workload
 - Recommendations of the WG on the implementation and Operation of the CIPM MRA
 - Sharing the roles involved in coordinating comparisons.
 - Promoting new TC Leadership
 - *Discussion: Do you provide mentorship in comparison piloting?*

EURAMET – COOMET COOPERATION

2nd annual meeting of EURAMET – COOMET delegations was held on 14 March 2019 in BIPM, Sevres, France.

Objective – discuss actual matters and strategic orientation of the cooperation between EURAMET and COOMET.

Agenda included the following items:

- 1) Opening remarks
- 2) Review of action list of first meeting
- 3) Evaluation of achievements so far
- 4) Plans for future cooperation

The following decisions were made:

Act 2/1 COOMET and EURAMET TCs shall make an enquiry on joint CB activities which would benefit both organisations.

Act 2/2 Analyse the TC proposals for joint CB activities. They shall be further discussed at the meeting of the EURAMET BoD Working Group for Capacity Building (BOD-WGCB) in October 2019; a few appropriate activities shall be identified and implemented.

Act 2/3 EURAMET to search for a representative in the Scientific Committee in the VIII International Competition "The Best Young Metrologist of COOMET" from 5 to 6 June in Kazan, Russia.

Act 2/4 EURAMET to promote the Scientific Committee in the VIII International Competition "The Best Young Metrologist of COOMET" via the EURAMET TCs.

Also the Action Plan on Cooperation for 2019 between EURAMET and COOMET was agreed. According to Plan the main actions are:

- participation of EURAMET/COOMET TC Chairpersons/Representatives in COOMET/EURAMET TC meetings accordingly;
- joint participation in capacity building and knowledge transfer projects within the BIPM CB&KT Programme;
- participation of COOMET Representative as an observer in the meetings of EURAMET Board of Directors' Working Group for Capacity Building (BOD-WGCB);
- participation of NMIs of COOMET and EURAMET member-countries in comparisons;
- participation of NMIs of COOMET member-countries in realized EMPIR projects.

COOMET WEB RESOURCES

The COOMET web-portal (www.coomet.net) is maintained by the respective COOMET Secretariat and national on-line editors for the pages of COOMET member countries and Technical Committees of COOMET.

The COOMET website (www.coomet.org) is maintained by Administrator (A.Ivanov, VNIIFTRI, Russia). COOMET Data Bases are available at COOMET website (www.coomet.org).

NEXT COOMET EVENTS

The VIII International Competition "The Best Young Metrologist of COOMET" will be held from 5 to 6 June in Kazan, Russia.

The 24th meeting of COOMET President's Council will be held in November 2019 in Tbilisi, Georgia.

The 30th COOMET Committee Meeting will be held in April 2020 in Kazakhstan.