

COOMET TC1.1 REPORT "General measurement issues" for 2019r

1. In 2019, the meeting of TC 1.1 was not held on July 01, 2019 in St. Petersburg, Russia



2. The projects of TC 1.1 and their current state проекты ТК 1.1 и их текущее состояние

302/RU/04

Development of the schemes for conducting and of algorithms for data processing of the supplementary COOMET comparisons arranged with the aim to support the CMCs of NMIs

The topic relates to the ongoing work. Within the framework of this topic, COOMET recommendations R / GM / 19: 2016 "Guideline on COOMET supplementary comparison evaluation" were developed, which were updated in 2016. The recommendations are used in the processing of COOMET comparisons. Their approbation has shown the need to single out the case of processing data from bilateral comparisons, which is planned to be done when this recommendation is updated again. Since bilateral comparisons are close by its scheme to "hybrid" comparisons suggested by the APMP, it is not rational to change the common practice and use them instead or in parallel;

In the case of distribution of hybrid comparisons in other RMOs it is necessary to state unequivocal criteria and procedures of its use and registration, that is important for its recognition during the CMC review;

During the update of the COOMET R/GM/19:2016 recommendations the special case of bilateral comparisons processing was distinguished.

336/RU/05

Development of the guidelines for KOOMET KC data evaluation

The topic relates to the ongoing work. Within the framework of this topic, COOMET recommendations R / GM / 14: 2016 "Guidelines for data evaluation of COOMET key comparison" were developed, which are available

http://www.coomet.org/DB/isapi/cmt_docs/2016/5/2VLD1O.pdf

693/UA/16

Development of recommendations on the justification of a measurement model (measurement equation)

Work on the project continues; at the meeting of TC.1.1 COOMET “General Measurement Issues”, July 01, 2019 (St. Petersburg) the continuation of the work with the development of separate supplement to the Recommendations “Modeling dynamical measurements” was encouraged.

727/RU/17

Development of information material "Models of data processing of national measurement standards comparisons"

The development of the software for key comparison data processing was started. In the software it is planned to realize basic approaches and methods of data processing and also include brief commentary of their application.

New projects:

792/RU/19 Preparation for and holding of the seminar on the topic "Redefinition of the International System of Units (SI)" with the participation of COOMET TC Chairs and representatives of COOMET NMIs (3 October 2019, D.I. Mendeleev Institute for Metrology VNIIM, St.Petersburg, Russia)

At 3rd of October 2019 in Saint-Petersburg the international Seminar “Redefinition of the International SI System” was organized by D.I.Mendeleev Institute for Metrology. The COOMET TC Chairs and COOMET NMI representatives participated in the Seminar. The Seminar was broadcasted live on the D.I.Mendeleev Institute for Metrology youtube channel. The link to the webcast is <https://www.youtube.com/watch?v=3ZMHV2VM0Y8>

791/UZ/19 Development of COOMET recommendations "Methods and approaches of metrological attestation of measurement techniques"

The topic is initiated by the Uzbek National Institute of Metrology (UzNIM). The work on the development of the separate recommendation is started. The recommendation states requirements to conduction of metrological attestation of measurement techniques; provides the unified order of providing of the services, common and special requirements to measurement techniques being developed and formalization of results of the metrological control.

796/UA/19 Development of COOMET Recommendations on the expression of expanded measurement uncertainty (kurtosis method)

The topic is initiated by NSC “Institute of Metrology”, Ukraine. In the framework of the topic it is planned to develop recommendations on expression of expanded measurement uncertainty, that will allow to obtain measurement result close to the result obtained by the Monte Carlo method.

The COOMET Recommendation will be prepared as a result of the work.

795/UA/19 Updating of Recommendation COOMET R/GM/15:2007: "Rules of Completing the Form of Calibration Certificates Issued by National Metrology Institutes within the CIPM MRA"

The works on updating COOMET Recommendation COOMET R/GM/15:2007 "Порядок оформления сертификатов калибровки, выдаваемых национальными метрологическими институтами в рамках CIPM MRA" are conducted due to the changes in the document CIPM



MRA D-02 "Use of the CIPM MRA logo and certificates statement" and taking into account the requirements of ISO/IEC 17025:2017

794/RU/19 Translation and adaptation of a suite of new versions of CIPM MRA documents and also a CIPM document "Recommendations from the Working Group on the Implementation and Operation of the CIPM MRA"

The translation of the CIPM document "Recommendations from the Working Group on the Implementation and Operation of the CIPM MRA". The translation is located on COOMET webportal:

<https://www.coomet.net/organization/tc-1-joint-committee-for-measurement-standards/documents/>

Translation of the suite of CIPM MRA documents as it is updated is suggested.

3. Participation in international conferences

- International Scientific Symposium «Metrology and Metrology Assurance 2019» , Sozopol, Bulgaria, 10-14.09.2019
- Joint IMEKO 2019 Symposium "The future glimmers long before it comes to be" (TC1, TC7, TC13, TC18), 02-05 July 2019 г., St. Petersburg

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