ANNUAL REPORT
on the activities of JCMS (Joint Committee of Measurement Standards)» in 2018

The first part of the report contains a summary of the activities of the JCMS for 2018. Detailed information is given in the reports of the chairs of the subcommittees of TC 1.1 - TC 1.12

1. Meetings of TC 1.1 -1.12

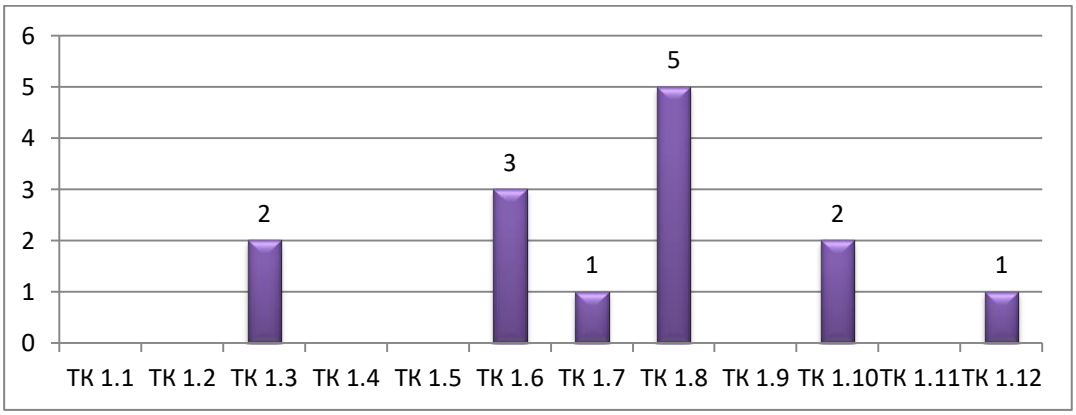
TC	Time and venue
TC 1.1	-
TC 1.2	17–19 September 2018, Gebze, Turkey
TC 1.3	16–17 October 2018, Baku, Azerbaijan
TC 1.4	5 September 2018, Kazan, Russia
TC 1.5	11–12 December 2018, Kharkiv, Ukraine
TC 1.6	28–30 August 2018, Sarajevo, Bosnia and Herzegovina
TC 1.7	4–6 September 2018, Havana, Cuba
TC 1.8	23–24 May 2018, Saint-Petersburg, Russia
TC 1.9	18–20 September 2018, Saint-Petersburg, Russia -
TC 1.10	11–12 September 2018, Tbilisi, Georgia
TC 1.11	22–23 March 2018, Moscow, Russia
TC 1.12	14–15 September 2018, Ekaterinburg, Russia

2. COOMET projects completed in 2018

No	COOMET project /KCDB ID	Name	Pilot	Participants
1	**655/RU-a/15**	Pilot study on pH measurement of phosphate buffer (pH ~ 7.0).	**VNIIFTRI**	VNIIFTRI VNIIM UNIIM Chuvash CSM Rostov CSM Ryazan CSM Chelyabinsk CSM Nizhny Novgorod CSM Moscow region CSM UralTest BelGIM PTB GEOSTM KazInMetr ECM at ME KR NMI (MD) TÜBITAK UME SE "Ukrmetrteststandard"
2	**696/RU/16**	Pilot comparisons in the field of measuring the mass fraction of silver and gold in epithermal gold ore	**UNIIM**	BelGIM UNIIM CENTRAL GEOLOGICAL LABORATORY, Mongolia
3	**678/RU/15 COOMET.QM-K111**	Key comparison of national measurement standards in the field of analysis of gas mixture of C3H8 in nitrogen	**VNIIM**	BelGIM KazInMetr SE "Ukrmetrteststandard" VNIIM
4	**707/RU-a/16 COOMET.EM-S21**	Bilateral comparisons of reference switching impulse voltage measuring systems in the range from 1 to 100 kV	**VNIIMS**	PTB VNIIMS
5	**512/RU-a/10 COOMET.M.T-S1**	Supplementary bilateral comparison of national standards of torque	**UNIIM**	PTB UNIIM
6	**672/RU/15**	Pilot comparisons in the field of measuring the mass fraction of iron in iron	**UNIIM**	UNIIM VNIIOFI SE "Ukrmetrteststandard BelGIM
7	**650/RU/14**	Pilot comparisons in the field of metals mass fraction measurements (Al, As, Ca, Mg, Pb, Sb, Au, Ag, Ni) in slag (Part II)	**UNIIM**	UNIIM SE "Ukrmetrteststandard BelGIM
	724/RU-a/17	Study of liquids of manometers - primary pressure standards		

No	COOMET project /KCDB ID	Name	Pilot	Participants
	759/RU-a/18	Organization and conducting the 23rd meeting of COOMET Technical Committee 1.12 "REFERENCE MATERIALS" (TC 1.12 "RMs")		
	713/UA/16	The practical training of the specialists in the field of mass and related quantities within BIPM Capacity Building and Knowledge Transfer program (CBKT)		
	633/KG/14	Development of COOMET recommendations "Calibration of resistance thermometers by comparison method"		
8	**686/MD-a/16 COOMET.EM-S20**	Bilateral comparison of 1.018 V and 10 V Zener DC voltage reference standards	**NMI (MD)**	NMI (MD) PTB
9	**623/RU-a/13**	Bilateral comparisons of national standards of the energy of combustion by means of solid and liquid fuels	**VNIIM**	BelGIM VNIIM
	577/RU-a/12 COOMET.PR-S6	Comparison on Fibre Optic Power Responsivity	**VNIIOFI**	BelGIM PTB VNIIOFI

Distribution of number of projects completed by the TC is shown in the diagram. The results are presented on the basis of information contained in web-site comet.org for calendar year 2018. Considered those projects for which final reports are presented.

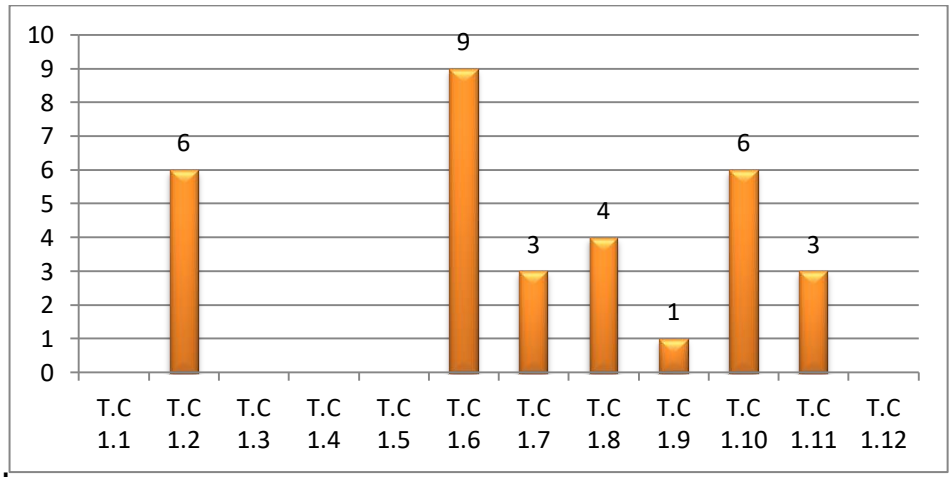


3. COOMET's participation in the inter-regional review of CMCs

	CMC	Metrology area	RMO	Status	Last update
1	AFRIMETS.AUV.5.2017	Acoustics, Ultrasound, Vibration	AFRIMETS	Published in BIPM KCDB	14.03.2018
2	AFRIMETS.AUV.6.2018	Acoustics, Ultrasound, Vibration	AFRIMETS	Published in BIPM KCDB	25.09.2018
3	AFRIMETS.M.6.2018	Mass and related quantities	AFRIMETS	Published in BIPM KCDB	03.09.2018
4	AFRIMETS.T.5.2018	Thermometry	AFRIMETS	Published in BIPM KCDB	16.07.2018
5	AFRIMETS.T.6.2018	Thermometry	AFRIMETS	Published in BIPM KCDB	18.10.2018
6	APMP.AUV.14.2018	Acoustics, Ultrasound, Vibration	APMP	Review still in progress	25.06.2018
7	APMP.M.45.2018	Mass and related quantities	APMP	Review still in progress	22.10.2018
8	APMP.M.46.2018	Mass and related quantities	APMP	Review still in progress	15.11.2018
9	APMP.T.14.2018	Thermometry	APMP	Published in BIPM KCDB	27.02.2018
10	APMP.QM.30.2018	Amount of Substance	APMP	Published in BIPM KCDB	26.09.2018
11	APMP.T.15.2018	Thermometry	APMP	Published in BIPM KCDB	05.12.2018
12	EURAMET.AUV.17.2017	Acoustics, Ultrasound, Vibration	EURAMET	Published in BIPM KCDB	17.01.2018
13	EURAMET.AUV.18.2018	Acoustics, Ultrasound, Vibration	EURAMET	Not approved	05.12.2018
14	EURAMET.AUV.19.2018	Acoustics, Ultrasound, Vibration	EURAMET	Published in BIPM KCDB	25.07.2018
15	EURAMET.M.54.2017	Mass and related quantities	EURAMET	Published in BIPM KCDB	31.01.2018
16	EURAMET.M.56.2018	Mass and related quantities	EURAMET	Published in BIPM KCDB	03.07.2018
17	EURAMET.M.57.2018	Mass and related quantities	EURAMET	Published in BIPM KCDB	23.10.2018
18	EURAMET.M.59.2018	Mass and related quantities	EURAMET	Published in BIPM KCDB	09.10.2018
19	EURAMET.PR.13.2018	Photometry and Radiometry	EURAMET	Not approved	18.07.2018
20	EURAMET.PR.14.2018	Photometry and Radiometry	EURAMET	Published in BIPM KCDB	03.09.2018
21	EURAMET.PR.15.2018	Photometry and Radiometry	EURAMET	Published in BIPM KCDB	12.11.2018
22	EURAMET.QM.32.2017	Amount of Substance	EURAMET	Published in BIPM KCDB	05.01.2018
23	EURAMET.QM.33.2018	Amount of Substance	EURAMET	Published in BIPM KCDB	28.06.2018
24	EURAMET.RI.30.2017	Ionizing Radiation	EURAMET	Published in BIPM KCDB	09.01.2018
25	EURAMET.T.23.2018	Thermometry	EURAMET	Published in BIPM KCDB	03.12.2018
26	EURAMET.TF.11.2018	Time and Frequency	EURAMET	Review still in progress	30.11.2018

27	EURAMET.TF.12.2018	Time and Frequency	EURAMET	Review still in progress	30.11.2018
28	EURAMET.TF.13.2018	Time and Frequency	EURAMET	Review still in progress	22.11.2018
29	SIM.M.37.2017	Mass and related quantities	SIM	Published in BIPM KCDB	04.05.2018
30	SIM.M.39.2018	Mass and related quantities	SIM	Review still in progress	23.11.2018
31	SIM.QM.24.2018	Amount of Substance	SIM	Published in BIPM KCDB	02.07.2018
32	SIM.T.10.2016	Thermometry	SIM	Not approved	27.02.2018

Distribution of the number of TCs participating in the inter-regional expertise. The results are presented on the basis of information contained in web-site the bipm.org for calendar year 2018



4. CMC published in BIPM KCDB

CMC	Metrology area	Country	NMI
COOMET.QM.28.2018	QM	KZ BY RU UA	KazInMetr BelGIM VNIIM Ukrmetrtest-standart
COOMET.M.31.2018	M	AZ	AZMI
COOMET.M.30.2017	M	RU	VNIIM
COOMET.M.29.2017	M	KZ	KazInMetr
COOMET.EM.13.2017	EM	KZ BY	KazInMetr BelGIM

A. Chunovkina
JCMS chair