

## INFORMATION ON COOMET ACTIVITIES in 2012–2013 for the 7<sup>th</sup> EURAMET GA

### 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

COOMET has the following 18 countries as its members: Azerbaijan, Armenia, Belarus, Bulgaria, Germany, Georgia, Kazakhstan, DPR of Korea, Kyrgyzstan, Cuba, Lithuania, Moldova, Russia, Romania, Slovakia, Tajikistan, Uzbekistan and Ukraine.

### COOMET EVENTS

#### **MEETINGS OF THE STRUCTURAL BODIES OF COOMET**

The following meetings were held in 2012:

- 22 meeting of **COOMET Committee** (18–19 April, Cholpon-Ata, Kyrgyzstan);
- 17 meeting of **COOMET President's Council** (14–15 November, Lvov, Ukraine);
- 10 meeting of **the Joint Committee for Measurement Standards** (17 April, Cholpon-Ata, Kyrgyzstan).

Meetings of the **Technical Committees** of COOMET in 2012 :

- **TC 1.1** “General Questions Concerning Measurements” (9 November, Saint-Petersburg, Russia)
- **TC 1.2** “Acoustics, Ultrasound, Vibration” (29 May – 1 June, Denmark);
- **TC 1.3** “Electricity and Magnetism” (18–19 September, Astana, Kazakhstan)
- **TC 1.4** “Flow Measurement” (22–26 October, Braunschweig, Germany)
- **TC 1.6** “Mass and Related Quantities” (26–27 September, Baku, Azerbaijan)
- **TC 1.7** “Photometry and Radiometry” (22 May, Kyiv, Ukraine);
- **TC 1.8** “Physical Chemistry” (28–29 May, Saint-Petersburg, Russia);
- **TC 1.9** “Ionizing Radiation and Radioactivity” (25–26 October, Moscow, Russia)
- **TC 1.10** “Thermometry and Thermal Physics” (30–31 October, Astana, Kazakhstan);
- **TC 1.11** “Time and Frequency” (31 May – 1 June, Astana, Kazakhstan);
- **TC 1.12** “Reference Materials” (October, Braunschweig and Berlin, Germany)
- **TC 2** “Legal Metrology” (18–20 September, Braunschweig, Germany);
- **TC 4** “Information and training” meeting (16 – 17 October 2012, Minsk, Belarus)

Meetings of the **Technical Committees** of COOMET in 2013 :

- **TC 1.5** “Length and Angle” (15–16 May, Braunschweig, Germany);
- **TC 3.1** “Technical Committee of Quality Forum” (23–24 April, Braunschweig, Germany);
- **TC 5** “Joint Scientific Research in the Field of Metrology” (23 April, Braunschweig, Germany).

In 2012–2013 COOMET representatives participated in the meetings of the following metrology organizations promoting COOMET activities:

- 29 meeting of JCRB (25–26 September, Washington, USA);
- 30 meeting of JCRB (19–20 April, Paris, France);

- 47 meeting of CIML (1–5 October, Bucharest, Romania);
- 6 General Assembly of EURAMET (22–23 May, Lyngby, Denmark);
- XX IMEKO World Congress (9–14 September, Busan, Republic of Korea).

### ***CONFERENCES AND WORKSHOPS UNDER THE AEGIS OF COOMET***

1. International Seminar Mathematics, statistics and computation to support measurement quality (05–07 June 2012, St.Petersburg, Russia);
2. Training Workshop of Prepackage (18 – 20 September 2012, Braunschweig, Germany);
3. VIII International Scientific & Technical Conference “Metrology and Measurement Techniques” (9–11 October 2012, Kharkiv, Ukraine);
4. Training Workshop for internal Auditors of COOMET NMI, according to ISO/IEC 17025 (7–8 November 2012, Chisinau, Moldova).

### ***INFORMATION ON COOMET ACTIVITIES***

#### ***IMPLEMENTATION OF COOMET PROJECTS***

There are **604 proposed projects** as of 30 April 2013.

The work on **83 agreed projects** (6 of which are on-going) was carried out as of 30 April 2013.

**111 proposed projects** are under agreement. **43 new projects** were proposed in 2012:

- 10 for “Mass and Related Quantities”,
- 7 for “Physical Chemistry”,
- 7 for “Length and Angle”,
- 6 for “Electricity and Magnetism”,
- 4 for “Reference Materials”,
- 2 for “Legal Metrology”,
- 1 for “Acoustics, Ultrasound, Vibration”,
- 1 for “Flow Measurement”,
- 1 for “Photometry and Radiometry”,
- 1 for “Ionizing Radiation and Radioactivity”,
- 1 for “Thermometry and Thermal Physics”,
- 1 for “Time and Frequency”,
- 1 for “Information and Training”.

In 2012 25 projects were proposed by Russia; 13 – by Ukraine; 2 – by Georgia; Azerbaijan, Kazakhstan and Uzbekistan proposed 1 project each.

**35 proposed projects** are related with regional comparisons of measurement standards of physical units. **3 projects** are aimed at the organization of meetings of the Structural Bodies as well as events within COOMET. **5 projects** are aimed at the development of COOMET documents.

#### ***IMPLEMENTATION OF THE CIPM MRA***

**1978** CMC lines declared by NMIs of COOMET member countries were published in the KCDB as of 30 April 2013, including by countries and types of measurements:

Country	Total	AUV	L	TF	T	PR	M	EM	RI	QM
Belarus	<b>158</b>	8	13	31	27	3	2	12	51	11
Georgia	<b>0</b>									
Kazakhstan	<b>16</b>		6	4			6			
Cuba	<b>88</b>						12		76	
Moldova	<b>0</b>									
Russia	<b>1535</b>	72	20	36	137	87	59	325	329	470
Ukraine	<b>181</b>	23	25	30	24		4	53	1	21

The participation of COOMET in the implementation of the CIPM MRA set the following tasks for its participants:

- planning and organization of regional key and additional comparisons of standards;
- holding of regional and inter-regional review of data on calibration and measurement capabilities (CMCs) of NMIs of COOMET member countries and other RMOs submitted to BIPM for approval and publication at its website;
- carrying out the review of Quality Management Systems (QMS) of NMIs of COOMET member countries that are the participants of the CIPM MRA.

There is an essential methodical base of cooperation created in COOMET which is constantly updated and enlarged.

**NISM (Moldova)** successfully passed the peer review on 5–6 November 2012 for the first time.

Second peer review of **DP “Ivano-Frankovskstandartmetrologia” (Ukraine)** was conducted on 6-7 December 2012.

Second peer reviews of **INIMET (Cuba)**, **CENTIS-DMR (Cuba)**, **CPHR (Cuba)** was conducted in March 2013.

Peer review of **GEOSTM (Georgia)** is planned for autumn 2013.

### **COOMET PUBLICATIONS**

In accordance with the resolutions of the 22<sup>nd</sup> COOMET Committee meeting the following publications updated in 2012 were registered:

- **COOMET D1/2012** “Memorandum of Understanding”;
- **COOMET D5.4/2012** “Regulation on COOMET Technical Committee “Length and angle”;
- **COOMET D5.9/2012** “Regulation on COOMET Technical Committee “Mass and Related Quantities”;
- **COOMET D5.12/2012** “Regulation on COOMET Technical Committee “Legal metrology”;
- **COOMET D5.13/2012** “Regulation on COOMET Technical Committee “Information and Training”.

### **COOMET WEB RESOURCES**

The COOMET website ([www.coomet.org](http://www.coomet.org)) is maintained by the experts of VNIIFTRI (Administrator is V. Bugaev).

The COOMET web-portal ([www.coomet.net](http://www.coomet.net)) is maintained by COOMET Secretariat and on-line editors of the pages of COOMET member countries and Technical Committees of COOMET.

The COOMET Project Database, information on COOMET Committee members, Chairpersons of structural bodies, COOMET publications were updated at the end of 2012. The CMC database was updated in accordance with Appendix C of KCDB.

### **22 COOMET COMMITTEE MEETING**

The 22<sup>nd</sup> COOMET Committee meeting was held on 18–19 April 2012 in Cholpon-Ata, Kyrgyzstan.

Representatives of 13 COOMET Member Countries (Armenia, Azerbaijan, Belarus, Georgia, Germany, Kazakhstan, Kyrgyzstan, Lithuania, Russia, Slovakia, Tajikistan, Uzbekistan and Ukraine) took part in the meeting. Mr. Stephen PATORAY, BIML Director; Mr. Omer ALTAN, Executive Secretary of JCRB; Mr. Wolfgang SCHMID, Head of EURAMET Secretariat; Mr. Yu YADONG, APMP Chairperson, also reported at the meeting on the activities of their organization.

21 issues of the agenda were discussed at the meeting, in particular:

- COOMET President’s Report “COOMET Activities in the Period between the Committee Meetings and Tasks of Cooperation”;

- the main results of COOMET activities in 2011–2012;
- a number of issues with regard to the realization of the CIPM MRA;
- status of review of Quality Management Systems (QMS) of COOMET NMIs and prospects in the activity of the COOMET Quality Forum;
- activities of international and regional metrology organizations;
- elections of COOMET President. Approval of the candidates of COOMET Vice-Presidents

COOMET Committee designated as Chairpersons of:

- TC 1.6 “Mass and Related Quantities” I.Kolozinskaya, NSC “Institute of Metrology”, Ukraine;
- TC 1.12 “Reference Materials” S.Medvedevskikh, UNIIM, Russia,

and prolonged the authorities of Chairpersons for 4 years:

- TC 1.2 “Acoustics, Ultrasound and Vibration” V.Pozdeeva, BelGIM, Belarus;
- TC 1.8 “Physical Chemistry” L.Konopelko, VNIIM, Russia.

Name of a structural body	Chairperson
Measurement Standards Joint Committee	A. Chunovkina VNIIM, Russia
TC 1.1 “General questions concerning measurements (General metrology)”	A. Chunovkina VNIIM, Russia
TC 1.2 “Acoustics, ultrasound, vibration”	V. Pozdeeva, BelGIM, Belarus
TC 1.3 “Electricity and magnetism”	T. Kolomiets, BelGIM, Belarus
TC 1.4 “Flow measurement”	V. Bolshakov, NSC “IM”, Ukraine
TC 1.5 “Length and angle”	V. Kupko, NSC “IM”, Ukraine
TC 1.6 “Mass and related quantities”	I. Kolozinskaya, NSC “IM”, Ukraine
TC 1.7 “Photometry and radiometry”	B. Khlevnoy, VNIIOFI, Russia
TC 1.8 “Physical chemistry”	L. Konopelko, VNIIM, Russia
TC 1.9 “Ionizing radiation and radioactivity”	V. Yarina, VNIIFTRI, Russia
TC 1.10 “Thermometry and thermal physics”	A. Pokhodun, VNIIM, Russia
TC 1.11 “Time and frequency”	V. Palchikov, VNIIFTRI, Russia
TC 1.12 “Reference materials”	S. Medvedevskikh, UNIIM, Russia
TC 2 “Legal Metrology ”	P. Ulbig, PTB, Germany
Quality Forum (QF)	R. Spurny, SMU, Slovakia
TC 3.1 “Quality Forum Technical Committee”	R. Spurny, SMU, Slovakia
TC 4 “Information and Training”	P. Neyezhmakov, NSC “IM”, Ukraine

New COOMET President Prof. Vladimir Krutikov, Director VNIIOFI, Russia, was elected at the 22<sup>nd</sup> Meeting of COOMET Committee.

Four COOMET Vice-President were approved at the 22<sup>nd</sup> Meeting of COOMET Committee.

	Direction of activities
COOMET President Prof. Dr. Vladimir Krutikov	General coordination of COOMET activities, Coordination of cooperation between COOMET and Metric Convention and EASC
COOMET Vice-President Prof. Dr. Nikolai Zhagora	Legal metrology
COOMET Vice-President Dr. Martin Halaj	Cooperation in the field of QMS
COOMET Vice-President Dr. Pavel Neyezhmakov	Cooperation with regional metrology organizations, Metrological infrastructure and knowledge transfer
COOMET Vice-President Prof. Dr. Klaus-Dieter Sommer	Joint scientific research

### **NEXT COOMET MEETINGS AND EVENTS**

The 23<sup>rd</sup> COOMET Committee meeting will take place on 5–6 June 2013 in Nizhny Novgorod, Russia.

The 18<sup>th</sup> meeting of COOMET President's Council is planned in November 2013 in Bratislava, Slovakia.

On 11–13 June 2013 at Physikalisch-Technische Bundesanstalt (PTB), Braunschweig, Germany, will be held **V International Competition “The Best Young Metrologist of COOMET 2013”**.

The peculiarity of the competition is in that the participants from the other Regional Metrological Organizations are invited.

39 reports representing all RMO are send in competition. In the work of jury will participate not only COOMET representatives but Laurie Besley, Chairperson of APMP; Luc Erard, Representative of EURAMET; Jorge Torres, Representative of SIM.