

INFORMATION ON COOMET ACTIVITIES in 2010 for the 5th 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

Thus, now 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 2010:

- 20 meeting of **COOMET Committee** (21–22 April 2010, Astana, Kazakhstan);
- 15 meeting of **COOMET President's Council** (26–27 October 2010, Kameniuki, Brest Region, Belarus);
- 8 meeting of **the Joint Committee for Measurement Standards** (20 April 2010, Astana, Kazakhstan).

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

- **TC 1.1** “General Metrology” (9 November 2010, Saint-Petersburg, Russia);
- **TC 1.2** “Acoustics, Ultrasound, Vibration” (18–19 May 2010, Lvov, Ukraine);
- **TC 1.3** “Electricity and Magnetism” (22–23 September 2010, Chisinau, Moldova);
- **TC 1.4** “Flow Measurement” (25–28 October 2010, Uralsk, Kazakhstan);
- **TC 1.5** “Length and Angle” (16–17 September 2010, Astana, Kazakhstan);
- **TC 1.6** “Mass and Related Quantities” (21–24 September 2010, Kyiv, Ukraine);
- **TC 1.7** “Photometry and Radiometry” (30 March – 1 April 2010, Saint-Petersburg, Russia);
- **TC 1.8** “Physical Chemistry” (23–24 September 2010, Saint-Petersburg, Russia);
- **TC 1.9** “Ionizing Radiation and Radioactivity” (2–3 November 2010, Minsk, Belarus);
- **TC 1.10** “Thermometry and Thermal Physics” (18–19 October 2010, Chisinau, Moldova);
- **TC 1.11** “Time and Frequency” (14–15 July 2010, Kharkov, Ukraine);
- **TC 1.12** “Reference Materials” (21–23 September 2010, Yerevan, Armenia);
- **TC 2** “Legal Metrology” (22–23 September 2010, Bratislava, Slovakia);
- **Quality Forum (QF)** and **TC 3.1** “Technical Committee for Quality Forum” (14–15 October 2010, Moscow, Russia);
- **TC 4** “Information and Training” (29 June – 1 July 2010, Kharkov, Ukraine).

In 2010 COOMET representatives participated in the meetings of the following metrology organizations promoting COOMET activities:

- EURAMET-WELMEC Seminar on Metrology and Conformity Assessment (1–2 March 2010, Brussels, Belgium);
- 24 meeting of JCRB (16–17 March 2010, Paris, France);
- 25 meeting of JCRB (21–22 September 2010, Charm-el-Sheikh, Egypt);
- 45 meeting of CIML (20–24 September 2010, Orlando, Florida, USA);
- 4 General Assembly of EURAMET (25–26 May 2010, Lisbon, Portugal);
- 37 meeting of EASC (7–10 June 2010, Odessa, Ukraine);
- 4 General Assembly of AFTRIMETS (22–23 September 2010, Charm-el-Sheikh, Egypt);
- 26 General Assembly of APMP (18–19 November 2010, Pattaya, Thailand);
- NCSL International Conference 21st Century Innovations in Metrology (25–26 July 2010, Rhode Island, Providence, USA);
- meeting of the Technical Committee for Quality of EURAMET (24–25 February 2010, Brussels, Belgium);
- meeting of the Technical Committee for Quality of APMP (15 November 2010, Pattaya, Thailand);
- meeting of Developing Economies' Committee (DEC) of APMP (14–16 November 2010, Pattaya, Thailand).

CONFERENCES AND WORKSHOPS UNDER THE AEGIS OF COOMET

1. Training Workshop for On-Line Editors of the New COOMET Web-Portal (18–23 March 2010, Braunschweig, Germany);
2. Workshop on Evaluation of the PTB-COOMET Project and Planning of the Second Phase within SC 4.5 (1 July 2010, Kharkov, Ukraine);
3. Training Workshop on Efficient Presentations and Intercultural Awareness within SC 4.5 (28–30 September 2010, Minsk, Belarus);
4. Training Workshop on Mass Measurement Uncertainty (5–6 October 2010, Tbilisi, Georgia);
5. Training Workshop for On-Line Editors of COOMET JCMS and TCs (14–16 December 2010, Braunschweig, Germany).

INFORMATION ON COOMET ACTIVITIES

IMPLEMENTATION OF COOMET PROJECTS

There are **514 proposed projects** as of 31 December 2010.

The work on **90 agreed projects** (6 of which are on-going) was carried out in 2010.

94 proposed projects are under agreement.

30 new projects were proposed in 2010:

- 7 for “Thermometry and Thermal Physics”,
- 5 for “Reference Materials”,
- 4 for “Training and Raising the Proficiency Level of Experts”,
- 3 for “Electricity and Magnetism”,
- 2 for “Physical Chemistry”,
- 2 for “Flow Measurement”,
- 2 for “Length and Angle”,
- 1 for “Acoustics, Ultrasound, Vibration”,
- 1 for “Mass and Related Quantities”,
- 1 for “Ionizing Radiation and Radioactivity”,
- 1 for “Legal Metrology”,
- 1 for “Research and Development”.

In 2010 16 projects were proposed by Russia; Ukraine and Belarus proposed 5 projects each; Germany proposed 1 project; Georgia and Kazakhstan proposed 1 project each.

16 proposed projects are related with regional comparisons of measurement standards of physical units. **6 projects** are aimed at the organization of meetings of the Structural Bodies as well as events within COOMET. **5 projects** aim at the development of COOMET documents. Such activities as elaboration and testing of reference materials, identification of the needs of COOMET NMIs in training and on-the-job training, as well as development of a conception for joint research in metrology in COOMET member countries are covered by **1 project** each.

During 2010 **12 projects were agreed**, 5 of them are related with comparisons in various subject fields (AUV, T, QM, RM), included into the Programme of Comparisons of Measurement Standards of COOMET NMIs.

The total **number of projects completed** during 2010 is **22**. They are aimed at carrying out comparisons of measurement standards of COOMET NMIs, developing reference materials and holding meetings of Structural Bodies and COOMET events.

IMPLEMENTATION OF THE CIPM MRA

1770 CMC lines declared by NMIs of COOMET member countries were published in the KCDB as of 31 December 2010, including by countries and types of measurements:

Country	Total	AUV	L	TF	T	PR	M	EM	RI	QM
Belarus	152	8	13	31	27	3	2	12	51	5
Georgia	0									
Kazakhstan	6						6			
Cuba	63						12		51	
Moldova	0									
Russia	1426	72	19	36	137	44	59	325	329	405
Ukraine	123	15	25	17			4	53		9

15 comparisons were registered in the COOMET project database in 2010; however only 2 of them (supplementary comparisons) were then registered in the KCDB. 4 comparisons (3 supplementary and 1 key comparisons) previously registered in the KCDB were completed in 2010.

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.

The second cycle of QMS peer reviews was passed by 4 Russian NMIs (VNIIM, VNIIMS, VNIIOFI, VNIIFTRI) in 2010 and Belarusian BelGIM and 2 Ukrainian NMIs (NSC “Institute of Metrology” and DP “Ukrmetrteststandart”) in April and May 2011.

COOMET PUBLICATIONS

In accordance with the resolutions of the 20th COOMET Committee meeting the following publications updated in 2010 were registered:

- **COOMET D5/2010** “Model Regulation on COOMET Structural Bodies”;

- **COOMET R/RM/5:2010** “Content of and Rules for Drawing Up Documents on RM Developed within COOMET”;
- **COOMET R/RM/6:2010** “Register of Reference Materials of Composition and Properties of Substances and Materials Developed within COOMET. General Provisions”;
- **COOMET D7/2010** “Regulation on Honorary Title of Honoured Metrologist of COOMET”;
- **COOMET R/AQ/9:2010** “Recommendation for Evaluating Quality Management Systems of National Metrology Institutes”;
- **COOMET R/GM/11:2010** “Regulation on Comparisons of Measurement Standards of National Metrology Institutes of COOMET”;
- **COOMET R/AQ/13:2010** “Procedure for Evaluating Quality Management Systems of National Metrology Institutes of COOMET”;
- **COOMET R/GM/18:2010** “Procedure of International Competition “The Best Young Metrologist of COOMET”.

COOMET WEB RESOURCES

On 26 October 2010 during the 15th meeting of the COOMET President’s Council the **new COOMET web-portal** (www.coomet.net) was launched which will function together with the COOMET website (www.coomet.org).

Unlike the COOMET website **new COOMET web-portal** will be used for answering the needs of COOMET members:

- storage, retrieval, exchange of data communication and
- coordination, organizing meetings and events, promoting the RMO and NMIs.

Two training workshops were held in March and December 2010 for on-line editors of the pages of COOMET member countries and those of Technical Committees of COOMET. These pages are now filled in by designated on-line editors.

21 COOMET COMMITTEE MEETING

The 21st COOMET Committee meeting was held on 27–28 April 2010 in Yerevan, Armenia.

Representatives of 14 COOMET Member Countries (Armenia, Belarus, Georgia, Germany, Kazakhstan, Kyrgyzstan, Cuba, Lithuania, Moldova, Russia, Romania, Slovakia, Uzbekistan and Ukraine) took part in the meeting. Mr. Alan JOHNSTON, CIML President; Mr. Stephen PATORAY, BIML Director; Mr. Andrew HENSON, International Liaison Officer of BIPM; Mrs. Nataša MEJAC VUKOVIC, WELMEC Chairperson, also reported at the meeting on the activities of their organization.

19 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”;
- Presentation of Draft Development Programme of COOMET for 2011–2013;
- the main results of COOMET activities in 2009–2010;
- 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.

COOMET Committee designated as Chairpersons of:

- Joint Committee on Measurement Standards of COOMET A. Chunovkina, VNIIM, Russia;
- COOMET Quality Forum and TC 3.1 “Technical Committee of COOMET Quality Forum” R. Spurny, SMU, Slovakia.

and prolonged the authorities of Chairpersons for 4 years:

- TC 1.1 “General metrology” A.Chunovkina, VNIIM, Russia;
- TC 1.9 “Ionizing radiations and radioactivity” V.Yaryna, VNIIFTRI, Russia;
- TC 1.10 “Thermometry and thermal physics” A.Pohodun, VNIIM, Russia;
- TC 1.12 “Reference materials” V. Leonov, VNIIM, Russia;
- TC 4 “Information and training” P.Neyezhnikov, NSC “Institute of metrology”, Ukraine.

NEXT COOMET MEETINGS

The 22nd COOMET Committee meeting will take place in April, 2012 in Bishkek, Kyrgyzstan.

The 16th COOMET President’s Council meeting will take place on November, 2011 in Rostov-on-Don, Russia.