

**COOMET PRESIDENT'S REPORT**  
**on the activity after the 21<sup>st</sup> meeting of COOMET Committee**  
**(April 2011 – April 2012) and tasks of cooperation**

**Dear Colleagues!**

In the period of report COOMET performed its activity in all main areas and subject fields stipulated by its Memorandum of Understanding and Development Programme for 2011–2013.

I will dwell on some results of cooperation in the reporting period and tasks for 2012.

**1. Development of new directions of cooperation**

In order to implement the regional projects of COOMET TC 5 “**Joint scientific research in the field of metrology**” was established at the 19<sup>th</sup> meeting. COOMET project 492/DE/10 “Development of a concept for joint metrological research in COOMET member countries” was proposed in 2010.

During 16<sup>th</sup> meeting of the President Council Vice-President Prof. Klaus-Dieter Sommer provided information about ways of implementation of the named project. Currently, surveys are conducted to determine the needs of the NMI Members COOMET by means of three questionnaires:

- Questionnaire 1 “NMI’s current research-and-development resources, capabilities, capacities and international cooperation”;
- Questionnaire 2 “Aspired capacity, capability and quality of the national calibration, measurement and testing infrastructure”;
- Questionnaire 3 “Metrology for the future and demands on Joint Metrological Research”.

To this date RSE “KazInMetr” (Kazakhstan), National institute of metrology (Armenia), DP “Ukrmetrteststandard” and the NSC “Institute of Metrology” (Ukraine), BelGIM (Belarus) sent the questionnaires.

I believe that the inclusion of this activity in the COOMET development program for 2011-2013 will help to plan work that will make a real contribution to the development of metrology and will stimulate innovation addressing the problems of measurement in our countries.

**2. Execution of works on preparation of signing the Arrangement on Mutual Recognition of National Measurement Standards and Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA)**

CIPM MRA plays a great role in expanding economic, scientific, technological and international cooperation and in the elimination of technical barriers to trade.

In 2011, in order to provide guidance to specialists of national metrology institutes of Azerbaijan, Armenia, Kyrgyzstan, Tajikistan and Uzbekistan, the following training workshops were held:

- preparation of a pilot comparison of mass measurements, 23–25 May 2011, Astana, Kazakhstan.

The topics of the workshop were: the preparation of a pilot comparison in the measurement of mass, discussion of the measurement procedure and the calculation of uncertainty for mass, discussion of procedures for declaring CMC lines in KCDB.

- preparation of additional comparisons in the field of ionizing radiation, 23–25 May 2011, Braunschweig, Germany.

The aim of the seminar – preparing the procedure of publishing of the CMC lines concerning the ionizing radiation on the results of comparisons of national measuring standards of air kerma.

I consider it reasonable to continue the preparation of the countries of Central Asia and the Caucasus to the signing of the CIPM MRA, involving NMIs of these countries into international comparisons and the establishment there quality systems, that meet the requirements of ISO / IEC 17025.

### 3. Current activities in some fields of cooperation

The activity of COOMET on the CIPM MRA implementation within the **Joint Committee of Measurement Standards** was aimed at organizing and holding regional comparisons and at carrying out intra-regional and inter-regional reviews of CMC.

At the 16<sup>th</sup> meeting of the COOMET President's Council the revised COOMET Comparison Programme for 2012 was signed; it includes 27 planned and 44 ongoing comparisons. The activities on implementation of the Comparison Program is supervised by the Chair of Joint Committee of Measurement Standards Anna Chunovkina, VNIIM, Russia.

I would like to point out a positive trend of growth in the number of COOMET comparisons, registered in *Appendix B* of KCDB. Thus, 13 comparisons were registered in 2011, 5 of them – key.

In the same period 18 comparison projects were registered by the COOMET Secretariat.

I would like to draw the attention of the Chairpersons of TCs to the considerable time interval (sometimes more than 2 years) between the date when a comparison is registered by the Secretariat and the date when it is registered in the KCDB. It means that TCs do not work sufficiently to prepare for comparisons.

President's Council drew attention to the discrepancy between the number of comparisons, conducted in COOMET with the number of comparisons that are registered in the KCDB. In this regard, it was decided in future not to include comparison, unregistered in the KCDB into the Program of comparisons of NMIs measurement standards. For more information it was decided to introduce into COOMET program of comparisons appendixes, containing information on the participation of NMIs in comparisons, organized by the Consultative Committee of CIPM, as well as in comparisons organized by the other RMOs.

In 2011 146 CMC entries of COOMET members were published in the following areas:

- “Acoustics, Ultrasound, Vibration” (Ukraine);
- “Length and Angle” (Kazakhstan and Russia);
- “Physical Chemistry” (Belarus, Russia and Ukraine);
- “Temperature” (Ukraine);
- “Time and Frequency” (Kazakhstan);
- “Ionising Radiation and Radioactivity” (Cuba, Russia and Ukraine).

During the reported period the “Program of Joint Development of Reference Materials within COOMET” was implemented (executive – Acting Chairman of TC 1.12 “Certified Reference Materials” Sergei Medvedevskih, UNIIM, Russia). In 2011 the development of seven types of reference materials was completed. As of 31.12.2011, the information on 104 types has been included in the register of certified reference materials of COOMET.

The active cooperation in the field of quality systems within the **COOMET Quality Forum**, aimed at the implementation of the CIPM MRA was continued.

Technical Committee of Quality Forum monitors the quality management systems of member countries NMIs on the basis of cross-sectional analysis of annual reports, sent to the Secretariat of TC Quality Forum.

In May 2011 the QMS of two Ukrainian institutions – NSC “Institute of Metrology” and DP “Ukrmetrteststandard” was audited.

During the regular meeting of TC Quality Forum, held on 19–20 May 2011 in Kiev, Ukraine, oral presentations on the functioning of QMS of the following NMI were made: UNIIM, SNIIM, VNIIR – Russia, DP NDI “Systema”- Ukraine, NISM – Moldova and NMC Azstandart – Azerbaijan (for information).

In November 2011 UNIIM and SNIIM (Russia) successfully passed the test of the QMS; in January 2012 – DP NDI “Systema” (Ukraine) and in February 2012 – VNIIR (Russia).

On 14–15 March 2012, during the meeting of the TC Quality Forum in Bratislava, these institutes received the certificates of recognition. At the meeting INIMET (Cuba), CENTIS-DMR, CPHR (Cuba), DP “Ivano-Frankivskstandartmetrologija” (Ukraine) were allowed to conduct external audits by the results of oral presentations.

The introduction and application of quality management systems in metrological institutes is an important area of cooperation for the implementation of the CIPM MRA. Therefore, I urge the representatives of all COOMET countries to participate actively in the work of the Quality Forum.

In the field of **legal metrology** the Work Program of TC 2 “Legal Metrology”, Regulations on the TC 2 were updated and the composition of the TC and SC 2.1 – SC 2.4; the Secretariat of TC 2 is formed from among the experts BelGIM (Belarus); also the workshop “The experience and achievements in legal metrology” took place on 7–8 September 2011 in Yerevan, Armenia.

#### **Activities in the field of information and training were held last year.**

In 2011 the information presented on the web-resources of COOMET (database on COOMET projects, information about Members COOMET Committee, Chairman of the structural bodies COOMET Publications, etc.) was updated, and the CMC database on the basis of Annex C of KCDB.

COOMET web-site ([www.coomet.org](http://www.coomet.org)) is maintained by VNIIFTRI experts (administrator – V.Bugaev), Home page of COOMET Quality Forum is administrated by specialists of Slovak Institute of Metrology.

COOMET web-portal ([www.coomet.net](http://www.coomet.net)) is maintained by the COOMET Secretariat and online editors of pages of country and technical committees of COOMET.

Much attention in COOMET is paid to the training and development of metrologists. As you know, in 2005 in Kharkov the first International Competition “The Best Young Metrologist of COOMET” was held and became a tradition. The competition involves young professionals under 35 years old from many countries of COOMET. As a result of the competition there are winners in two categories: a report in Russian and English.

In June 2011 in Moscow, Russia, the IV International Competitions “The Best Young Metrologist of COOMET” was held.

18 young professionals from 10 member COOMET countries participated in the event.

The program of the Moscow competition was slightly different from the previous due to the fact that competition was combined with a seminar, dedicated to the anniversary of COOMET. In addition to welcoming speeches of heads of Rosstandart and VNIIMS – the organizers of this event, the program included speeches of the oldest metrologists –

participants of creation of COOMET, who did much to develop and improve cooperation and the international prestige of our regional metrology organization. Presentations were made:

- Vladimir Belotserkovsky (former President of COOMET);
- Manfred Kohsiek (former Vice-President of PTB and the representative of Germany in the Committee COOMET);
- Hans-Dieter Velfe (former Vice-President of COOMET).

Topics presented in reports of contestants are divided into three main groups of metrological works:

- Metrological assurance of modern technologies;
- Creation and improvement of measuring standards, methods and means of units realisations;
- Metrological assurance of the important problems of the economy and social sphere.

The winner of the competition is Sergey Golubev (VNIIMS, Russia). Second prize was won by Fatemeh Yagobiyan (Iran), currently studies in PTB, Germany. Third place was awarded to Tobias Klein (PTB, Germany). In the category best report in English language the winner was Tatiana Sosnovskaya (BelGIM, Belarus).

Jury of competition noted the high level of young metrologists of COOMET and quality of presentation.

The next V International Competition "The Best Young Metrologist of COOMET" is scheduled for 2013 in the PTB, Braunschweig, Germany.

#### **4. Interaction with international, regional and national metrology organizations**

Nowadays COOMET is an active participant in the international cooperation on metrology; it promotes the uniformity of measurements in the region and contributes to the development of national metrological infrastructures of member countries in accordance with international requirements.

In the period under report COOMET continued its cooperation with international (CIPM, BIPM, JCRB, CIML, BIML) and regional (AFRIMETS, APMP, EURAMET, WELMEC, NCSLI) metrology organizations.

COOMET representatives took part in the 27<sup>th</sup> and 28<sup>th</sup> meetings of JCRB.

To promote COOMET activities at the international level COOMET representatives participated in:

- Round Table of Regional Legal Metrology Organizations with the 46<sup>th</sup> meeting of CIML;
- 27<sup>th</sup> General Assembly of APMP;
- 39<sup>th</sup> meeting of EASC;
- 33<sup>rd</sup> meeting of EASC NTCMetr;
- NCSL International Conference;
- NCSL International Exhibition.

**Therefore we can state that our tasks stipulated by the COOMET Development Programme for 2011 have mainly been fulfilled.**

In conclusion to my speech I would like to wish successful and effective work at the meeting to all of you and express my confidence that our decisions will contribute to further development of COOMET and extension of cooperation between member countries.

Thank you very much for your attention!

Prof. Dr. Vladimir Krutikov  
Acting COOMET President