



COOMET Important Developments

Prof. Dr. Pavel Neyezhnikov
COOMET Vice-President

National Scientific Centre "Institute of Metrology",
Kharkov, **UKRAINE**

28 May – 1 June 2018, Bucharest, Romania



The COOMET member-countries cooperate in the following areas:



MEASUREMENT STANDARDS OF PHYSICAL UNITS



LEGAL METROLOGY



QUALITY MANAGEMENT SYSTEMS



INFORMATION AND TRAINING



JOINT RESEARCH in METROLOGY

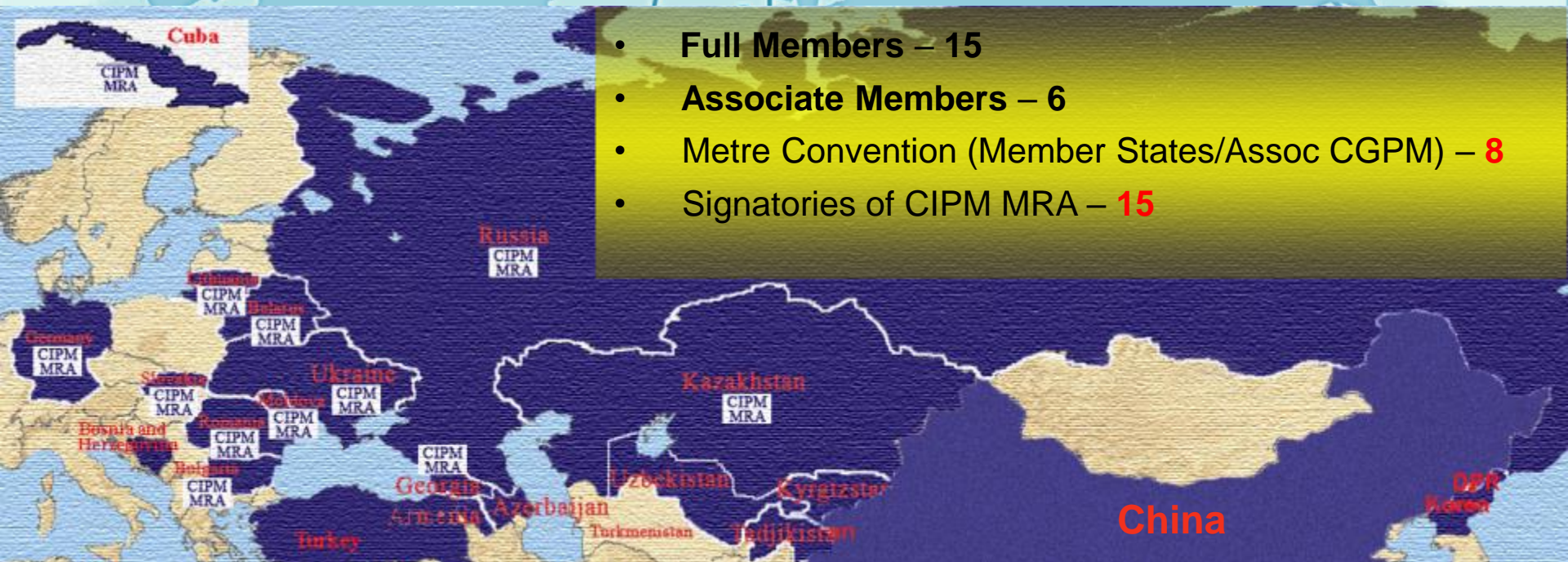
The main tasks of COOMET are the following:

Provide assistance in the uniformity of measures, uniformity of measurements and the required accuracy of their results;

Provide assistance in promoting cooperation between national economies and eliminating technical barriers for international trade;

Harmonize activities of metrology services of the Euro-Asian countries with similar activities in other regions.

COOMET MEMBERS AND THEIR RELATION TO THE METRE CONVENTION AND CIPM MRA



- Full Members – 15
- Associate Members – 6
- Metre Convention (Member States/Assoc CGPM) – 8
- Signatories of CIPM MRA – 15



ARMENIA
AZERBAIJAN
BELARUS
BOSNIA AND HERZEGOVINA
BULGARIA
CHINA



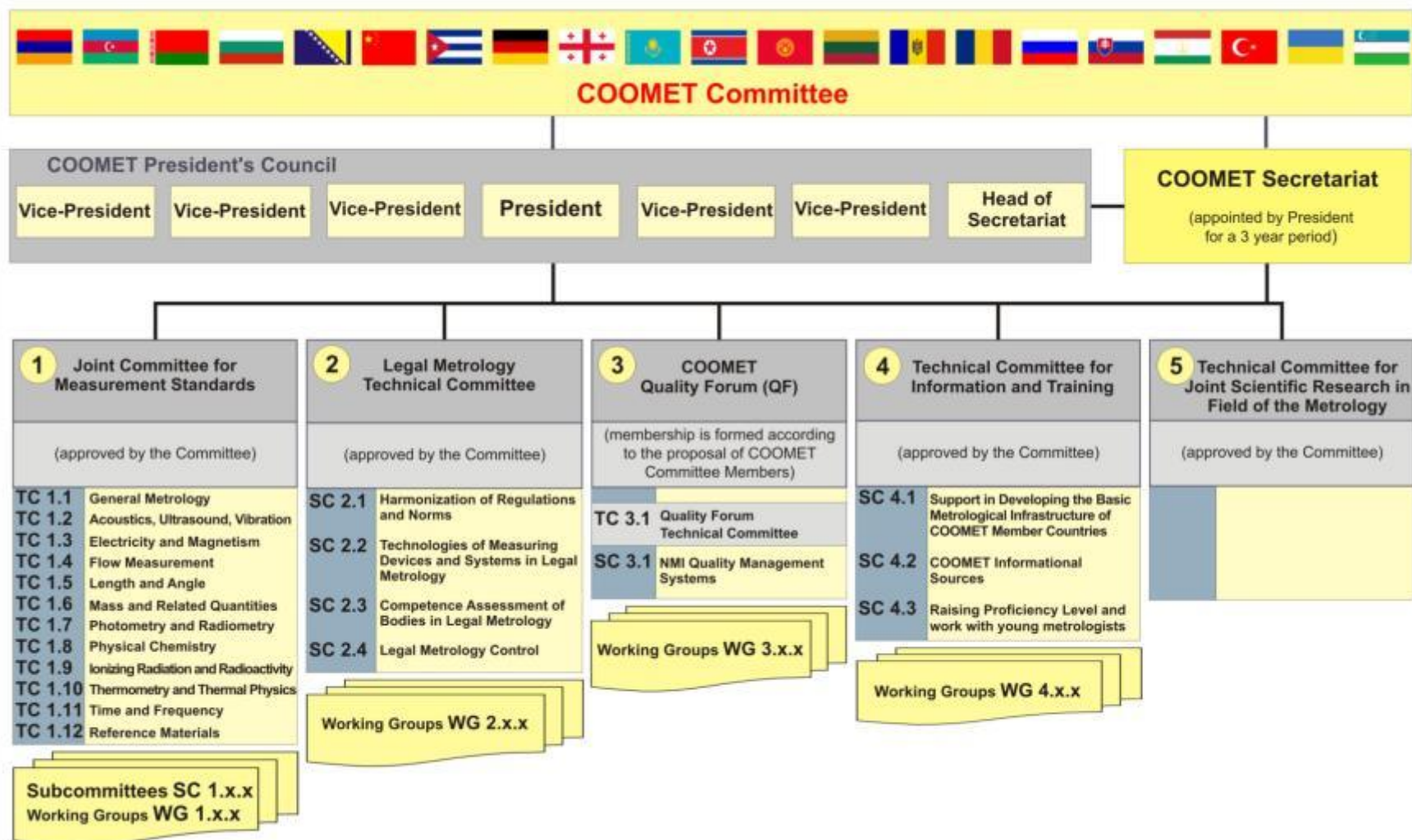
CUBA
GERMANY
GEORGIA
DPR OF KOREA
KAZAKHSTAN



KYRGYZSTAN
LITHUANIA
MOLDOVA
ROMANIA
RUSSIA



SLOVAKIA
TAJIKISTAN
TURKEY
UKRAINE
UZBEKISTAN



Thereby for the purpose to solve common problems **COOMET** created effective mechanisms that reach the following **goals**:




To achieve compatibility of national measurement standards

To recognize the national calibration certificates




To evaluate the QMS in COOMET member-countries NMIs




To harmonize legal metrology requirements

To exchange information on the current status of legal metrology development in member-countries



To promote the exchange of metrology knowledge

To collaborate in developing metrology projects



To realize joint research projects

**22nd meeting of COOMET President's Council
(29–30 November 2017, Braunschweig, Germany)**

Members of the COOMET President's Council, Chairpersons of COOMET Quality Forum and TC 3.1 "Quality Forum Technical Committee", representatives of National Secretariats of COOMET and other invited guests took part in the work of the meeting.

The tasks of the meeting were the discussion of the measures on improvement of activities of the regional metrological organization COOMET and implementation of the Arrangement "Mutual Recognition of National Standards, Calibration and Measurements Certificates issued by National Metrology Institutes" (CIPM MRA).



28th meeting of COOMET Committee and 16th meeting of the JCMS (10–12 April 2018, Sarajevo, Bosnia and Herzegovina)









17 COOMET member-countries (Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, China, Cuba, Georgia, Germany, Kazakhstan, Kyrgyzstan, Lithuania, Moldova, Russia, Slovakia, Turkey, Uzbekistan and Ukraine) took part in the 28th COOMET Committee meeting

During the 28th meeting of the COOMET Committee, an official delegation of authority to the new COOMET President **Valery Hurevich** (BelGIM, Belarus) from the previous President **Vladimir Krutikov** (VNIIOFI, Russia) took place. A new membership of COOMET President's Council was formed. The following members were elected as Vice-presidents:

- **Pavel Neyezhmakov** (NSC "Institute of Metrology", Ukraine) – responsible for cooperation with regional metrology organizations as well as for training and knowledge transfer;
- **Peter Ulbig** (PTB, Germany) – responsible for legal metrology;
- **Nino Mikanadze** (GEOSTM, Georgia) – responsible for the quality management system and accreditation;
- **Sergey Golubev** (Rosstandart, Russia) – responsible for cooperation in the field of measurement standards and joint scientific research



		Areas of responsibility
 NEW COOMET President Dr. Valery HUREVICH		General coordination of COOMET activities, coordination of cooperation between COOMET and international metrology organizations.
COOMET Vice-President Prof. Dr. Pavel NEYEZHMAKOV		Information and knowledge transfer, cooperation with RMOs, COOMET official representative in JCRB and BoD NCSLI
 NEW COOMET Vice-President Dr. Sergey GOLUBEV		Coordination of COOMET cooperation in the field of measurement standards, joint scientific research
COOMET Vice-President Ms. Nino MIKANADZE		Development of quality management systems and collaboration in the field of accreditation
 COOMET Vice-President Dr. Peter ULBIG		Cooperation in the field of legal metrology
Head of COOMET Secretariat Ms. Nadezhda LIAKHOVA		

JCMS	Anna CHUNOVKINA, VNIIM, RUSSIA
TC1.1 GM	Anna CHUNOVKINA, VNIIM, RUSSIA
TC1.2 AUV	Valentina POZDEEVA, BelGIM, BELARUS
TC1.3 EM	Tatyana KOLOMIETS, BelGIM, BELARUS
TC1.4 FF	Viktor FAFURIN, VNIIR, RUSSIA
TC1.5 L	Aleksandr KOSTRIKOV, NSC "IM", UKRAINE, new
TC1.6 M	Iryna KOLOZINSKAYA, NSC "IM", UKRAINE
TC1.7 PR	Anatolii BESCUPSCHII, INM, MOLDOVA, new
TC1.8 QM	Leonid KONOPELKO, VNIIM, RUSSIA
TC1.9 RI	Nikolay MOISEEV, VNIIM, RUSSIA
TC1.10 T	Anatoly POKHODUN, VNIIM, RUSSIA
TC1.11 TF	Vitaliy PALCHIKOV, VNIIFTRI, RUSSIA, new term
TC1.12 RM	Sergey MEDVEDEVSKIKH, UNIIM, RUSSIA
TC2 LM	Peter ULBIG, PTB, GERMANY
QF	Andreas ODIN, PTB, GERMANY, new term
TC3.1 QF	Natalya MURAVSKAYA, VNIIOFI, RUSSIA, new term
TC4 I&TR	Pavel NEYEZHMAKOV, NSC "IM", UKRAINE

During the 28th COOMET Committee meeting the **Memorandum of Understanding between COOMET and EURAMET** was signed by new COOMET President **Valery Hurevich** and Chairperson of EURAMET **Beat Jeckelmann**.

This MoU was agreed at the meeting of EURAMET–COOMET delegations, which was held on 12 September 2017 in METAS, Bern-Wabern, Switzerland. Forms of cooperation within MoU include, but are not limited to areas of mutual interest as:

research in metrology; traceability of measurements to the SI units; inter-laboratory comparisons; knowledge exchange; joint publications.

Cooperative Activities are as follows:

- (1) Joint activities under this Memorandum of Understanding are subject to the applicable rules of each Party, as well as the funds and personnel available to the Parties or their members respectively.
- (2) Delegations of EURAMET and COOMET will meet on an annual basis. e. g. aside the JCRB meeting, to discuss actual matters and strategic orientation of the cooperation.
- (3) EURAMET and COOMET will mutually invite their TC-Chairs to the annual meetings of the TC in their organisation, this applies to the meetings of the Technical Committees for Quality, Information and Training and Interdisciplinary Metrology particularly.
- (4) EURAMET and COOMET will cooperate in the field of Capacity Building, e. g. by
 - mutual invitation to, or joint organisation of Capacity Building events, where appropriate,
 - exploring opportunities to hold joint workshops within the BIPM Capacity Building and Knowledge Transfer Programme (CBKT).
- (5) EURAMET and COOMET may arrange joint promotional, educational, technical, or scientific initiatives, such as conferences, seminars, workshops, training courses, joint publications and other pertinent activities.
- (6) The Parties will each appoint a person responsible for the coordination of the activities.





VII International Competition of COOMET “The Best Young Metrologist”



The VII International Competition of COOMET “The Best Young Metrologist” was held on 17–18 May 2017 in Astana, Kazakhstan.

It was the second time when the Competition was held with the participation of young metrologists from other RMOs and only in English.



36 works of young metrologists from 10 countries (Belarus, Columbia, Germany, Kazakhstan, Moldova, Peru, Russia, Slovakia, Spain and Ukraine) of 3 RMOs (COOMET, EURAMET and SIM) were submitted for the Competition



The winner became **Edyta Beyer** (PTB, Germany).
The 2nd place – **Mikhail Aleynikov** (VNIIFTRI, Russia).
The 3rd place – **Anna Villevalde** (VNIIM, Russia).

The Scientific Committee of the Competition included leading metrologists of Belarus, France, Germany, Kazakhstan, Russia, South Africa, Ukraine and USA from international (BIPM, BIML) and regional (AFRIMETS, COOMET, EURAMET, SIM) metrology organizations.

Username:

Password:

Login

Meetings

[May 17, 2018, VNIIMS \(Moscow, Russia\): the 18th meeting of COOMET TC 2 "Legal Metrology"](#)

Meetings

[May 15-16, 2018, Moscow, Russia: COOMET seminar and COOMET-OIML International Conference](#)

[Home](#) ▶ [Activities](#) ▶ [International Competitio...](#) ▶ [Competition 2017](#)

Calendar

▶ International Competition "The Best Young Metrologist of COOMET"

▶ Competition 2017

Competition 2015

Competition 2013

Training

Conferences/Events

Projects Database

Search NMI Services

About COOMET

Contacts

Links

News Archive

Latest Updates

Latest Videos

VII International Competition "The Best Young Metrologist of COOMET"

VII International Competition "The Best Young Metrologist of COOMET" was held on 17–18 May 2017 in Astana, Kazakhstan.

Based on the assessment results of the works of competitors, the following winner and awardees of the Competition were determined:

1st place – **Edyta Beyer (PTB, Germany)** for report "Surface analysis by XRF and XPS for the Avogadro constant and the realization of the kilogram based on silicon spheres" – graduate student of PTB from Poland;

2nd place – **Mikhail Aleynikov (VNIIFTRI, Russia)** for report "Application of H-maser with increased power in fountain atomic clocks";

3rd place – **Anna Villevalde (VNIIM, Russia)** for report "Metrological support of measurements in brachytherapy".

[Minutes No 1](#)

[Minutes No 2](#)

For the first time it was prepared and published in electronic and paper variants the

[Proceedings of VII International Competition of COOMET "The Best Young Metrologist – 2017"](#). All papers were assigned the DOI index – digital object identifier.

[Program of Competition short](#)

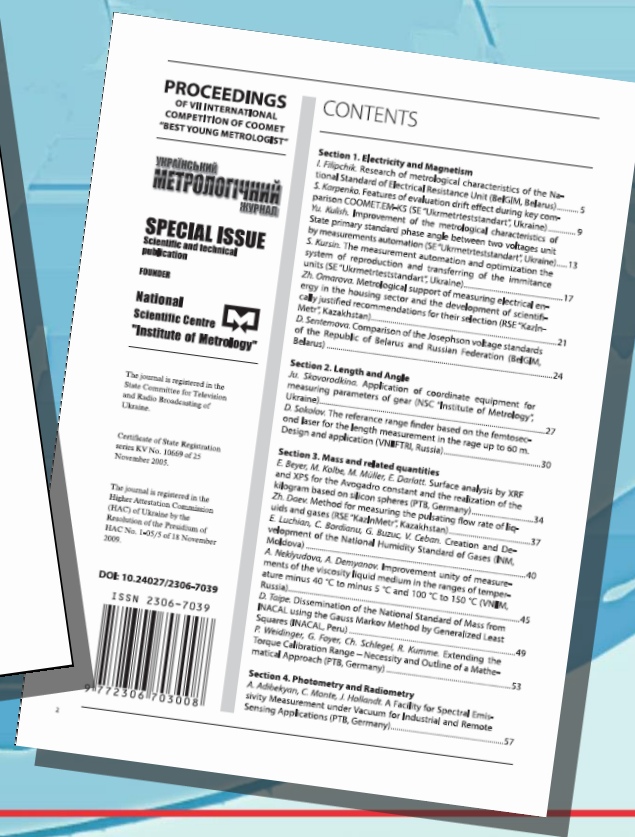
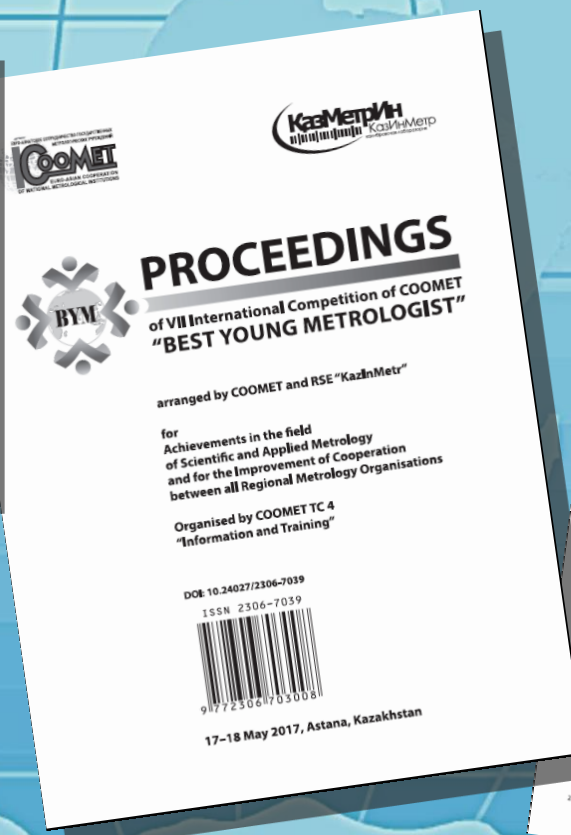
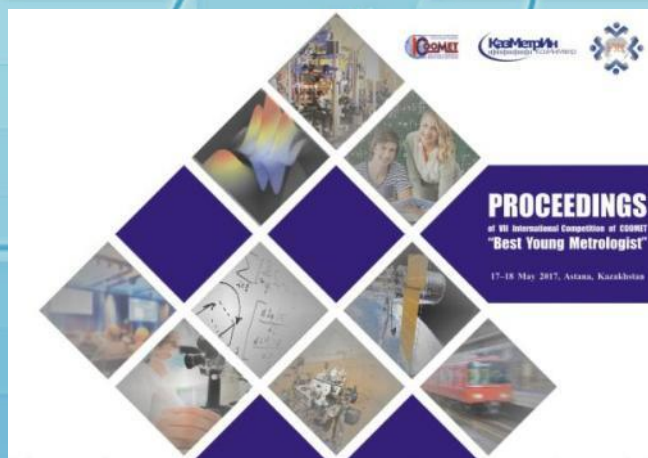
[Program of Competition full](#)





VII International Competition of COOMET “The Best Young Metrologist”

For the first time it was prepared and published in electronic and paper variants the Proceedings of VII International Competition of COOMET “The Best Young Metrologist – 2017”. All papers were assigned the DOI index – digital object identifier. This was done by the specialists of the NSC “Institute of Metrology” (Kharkov, Ukraine).





OIML BULLETIN

VOLUME LIX • NUMBER 2
APRIL 2018

Quarterly Journal

Organisation Internationale de Métrologie Légale



7th COOMET International Competition
“The Best Young Metrologist”

ISSN 0472-2812

update

COOMET COMPETITION

**The future of the
international metrology
community**

**COOMET International
Competition “The Best
Young Metrologist”**

PROF. DR. PAVEL NEYEZHMAKOV
COOMET Vice-President
MRS. YULIYA BONYAYVA
National COOMET Secretariat in Ukraine

Introduction

COOMET is an organization for the Euro-Asian cooperation of National Metrology Institutions (from the countries of Central and Eastern Europe, Asia and nearby countries), which is also open to the National Metrology Institutions of countries from other regions to join. The principal fields of cooperation within COOMET include:

- implementation of the CIPM MRA;
- establishment and maintenance of the national primary measurement standards of SI units;
- solution of problems concerning general metrology, including problems related to the theory of measurement and uncertainties, system of units, terminology;
- creation and use of reference materials of composition and properties of substances and materials;
- coordination of issues on legal metrology between member countries;
- creation and implementation of Quality Management Systems in NMIs;
- support in developing the basic metrological infrastructure of COOMET Member Countries; and
- raising proficiency level and work with young metrologists.

The initiative for this extraordinary competition for young metrologists was started more than ten years ago during an annual meeting of the COOMET Technical Committee (TC) for Information and Training (TC 4).

The members of TC 4 suggested the development of criteria for a better judgment of the skills and knowledge of young metrologists between member state institutions and proposed to organize and hold the International Competition of COOMET “The Best Young Metrologist” for specialists up to and including the age of 35 who work in the field of scientific and applied metrology at NMIs or other metrology institutions of COOMET Member Countries, independent of higher academic degree and position.

The following tasks and objectives of the competition were defined:

- to encourage young specialists in the field of metrology to introduce their scientific work to the metrological / scientific community;
- to find, support and encourage young metrologists in their achievements in the field of scientific and applied metrological activity that contribute to the development of metrology and cooperation of COOMET Member Countries and in global metrology society scales;
- to introduce one's work to colleagues of other metrology institutions;
- to learn to apply generally accepted methods and techniques for presentations;
- to publish the papers in the Proceedings;
- to publish papers and presentations online and/or on electronic carriers (e.g. CD);
- to inform metrological organizations about the scientific and applied papers submitted for the competition, results and winners of the competition;
- to build awareness among a wider audience about achievements in metrology through mass-media.

It was decided to hold the Competition once every two years in one of the metrology organizations of the COOMET Member Countries. It was also decided that the languages of the papers submitted should be the working languages of COOMET – i.e. Russian and English.

To assess the papers according to the criteria established in the COOMET recommendation “Procedure for the International Competition of the COOMET Best Young Metrologist”, the Scientific Committee (Judging panel) is formed of experienced specialists in metrology.

The Scientific Committee analyzes the candidates' full texts, listens to the reports and presentations, and estimates them according to the criteria (see Table 1).

¹ https://www.coomet.net/files/leadadmin/user_files/DOCUMENTS/COOMET_Documents/Recommendations/Recommendation_R_GM_18_Fn_2013.pdf

Seminar on the procedure and conditions of participation in the EMPIR

4 December 2017, Braunschweig, Germany

The Seminar was attended by:

Heads of COOMET National Metrology Institutes and Chairpersons of COOMET TCs from 7 COOMET member-countries (Belarus, Georgia, Germany, Russia, Tajikistan, Ukraine and Uzbekistan) and also representatives of EURAMET and EMPIR Secretariats

EMPIR



The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States



The agenda included a number of issues:

- introduction course for participants;
- introduction to EMPIR;
- concept of EMPIR;
- rules for participants;
- contribution and impact of EMPIR Projects;
- participation in EMPIR topics;
- structure of Projects;
- examples of external partnership;
- projects of potential research topics.

Workshop within BIPM CB&KT Programme “Sound beginning in the CIPM MRA”

10 April 2018, Sarajevo, Bosnia and Herzegovina

One-day **COOMET-BIPM workshop “Sound beginning in the CIPM MRA”** was held for the Heads of NMIs of COOMET member countries with the developing metrological infrastructure within the BIPM Programme on Capacity Building and Knowledge Transfer (CB&KT)



BIPM Capacity Building & Knowledge Transfer Program

COOMET - BIPM Workshop
“Sound beginning in the CIPM MRA”
10 April, 2018
Sarajevo, Bosnia and Herzegovina

PROGRAMME

Time	Course Topic	Outline of content	Instructors
09.00	Registration		
09.20	Welcome		Pavel Neyezhnikov
09.30	Global Quality Infrastructure	Importance of Quality Infrastructure and its key players Metrology/CIPM MRA and its role in the QI Case study: QI Practical examples & Roles and responsibilities	Peter Ullag Chingis Kuanbayev Peter Ullag
11.00	coffee & tea		
11.20	Introduction to the Metre Convention, BIPM and the CIPM MRA requirements	Metre Convention: Interactions with Member States and Associates CIPM Requirements and documentation COOMET as an RMO and CIPM MRA related activities JCRB: inter-regional CMC review process Case study: impacts of the CIPM MRA	Chingis Kuanbayev Nikita Zviagin Pavel Neyezhnikov Nikita Zviagin Pavel Neyezhnikov
13.00	lunch		
14.00	Quality management systems	CIPM requirements and documentation on QS and RMO approaches COOMET approach in QS and specifics ISO/IEC 17025 and the new edition Case study: How to establish a QS acceptable to RMO	Chingis Kuanbayev Natalia Muravskaya Andreas Odin Zijad Dzemic
16.00	coffee & tea		
16.30	Measurement comparisons and Calibration and measurement capabilities (CMCs)	CIPM Requirements and documentation on comparisons CIPM Requirements and documentation on CMCs Case study: How to participate effectively in comparisons and declare CMCs	Chingis Kuanbayev Nikita Zviagin Nino Mikanadze
	The BIPM key comparison database	Introduction of the KCDB (KCs, SCs, CMCs and statistics)	Nikita Zviagin
18.00	Closure of the Workshop		

The workshop was attended by 30 specialists-metrologists – Heads and representatives of NMIs of COOMET member-countries of both countries-signatories and non-signatories of the CIPM MRA from 14 COOMET member-countries (Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Cuba, Germany, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Turkey, Ukraine and Uzbekistan), as well as representatives of international metrology organizations - Chingis Kuanbayev, specialist of the BIPM department on international liaison, Nikita Zviagin, Executive Secretary of the JCRB, and Ian Dunmill, Assistant Director of the BIML.

COOMET Committee

TC 1 Joint Committee for Measurement Standards

TC 2 Legal Metrology

Quality Forum (QF)

▶ TC 4 Information and Training

▶ News

Meetings

Members

Documents

Projects

SC 4.1 Support in Developing Basic Metrological Infrastructure of COOMET Member Countries

SC 4.2 COOMET Informational Resources

SC 4.3 Raising Proficiency Level and Work with Young Metrologists

TC 5 Joint Research

About COOMET

Contacts

Links

News Archive

Latest Updates

Latest Videos

COOMET-BIPM Workshop "Sound beginning in the CIPM MRA"

On 10 April 2018 in Sarajevo, Bosnia and Herzegovina, a one-day workshop was held for the Heads of NMIs of COOMET member-countries with the developing metrological infrastructure in the framework of the BIPM Programme on Capacity Building and Knowledge Transfer (CB&KT) and the PTB-COOMET Project "Facilitation of regional trade and support of consumer protection of COOMET member-countries" and SC 4.1 "Support in developing the basic metrological infrastructure of COOMET member-countries".



The workshop was attended by 30 specialists-metrologists – Heads and representatives of NMIs of COOMET member-countries of both countries-signatories and non-signatories of the CIPM MRA from 14 COOMET member-countries (Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Cuba, Germany, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Turkey, Ukraine and Uzbekistan), as well as representatives of international metrology organizations - Chingis Kuanbayev, specialist of the BIPM department on international liaison, Nikita Zviagin, Executive Secretary of the JCRB, and Ian Dunmill, Assistant Director of the BIML.

The goal of the workshop – effective involvement of COOMET member-countries in the CIPM MRA implementation, exchange of experience in peer review of Quality Management Systems, comparisons, signing of the CIPM MRA.

The agenda of the workshop included 5 sections with the following topics:

1. Global quality infrastructure.
2. General information on Metre Convention.
3. Quality Management System.
4. Comparisons and calibration and measurement capabilities.
5. Key comparisons database of the BIPM.

Lecturers:

Chingis Kuanbayev, specialist of BIPM department on international liaison, BIPM, France;

Nikita Zviagin, Executive Secretary of the JCRB, BIPM, France;

Pavel Neyezhmakov, Vice-President of COOMET, NSC "Institute of Metrology", Ukraine;

Peter Ulbig, Vice-President of COOMET, PTB, Germany;

Andreas Odin, Chairperson of COOMET Quality Forum, PTB, Germany;

Natalia Muravskaya, Chairperson of COOMET TC 3.1, VNIIOFI, Russia;

Nino Mikanadze, COOMET Committee member, GEOSTM, Georgia;

Zijad Dzemic, COOMET Committee member, IMBIH, Bosnia and Herzegovina

SUMMARY

Thank you for your attention!

www.coomet.net

www.coomet.org

e-mail: coomet@belgim.by