

COOMET REPORT to the 8th GA EURAMET

Dr. Pavel Neyezhmakov
COOMET Vice-President

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

2-6 June 2014, Cavtat, Croatia



GENERAL INFORMATION

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

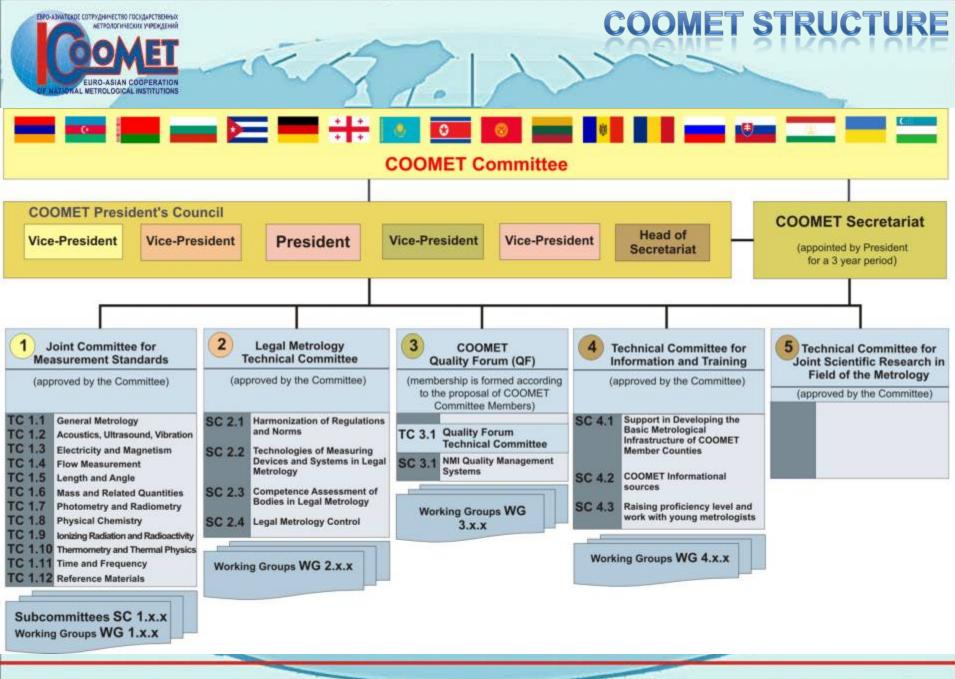
The main tasks of COOMET are the following:

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.





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





The following meetings were held in 2013 - 2014



23 meeting of COOMET Committee (5-6 June 2013, Nizhny Novgorod, Russia); 11 meeting of the Joint Committee for **Measurement Standards** (4 June 2013, Nizhny Novgorod, Russia).

> 18 meeting of **COOMET President's** Council (19-20 November 2013, Bratislava, Slovakia)

24 meeting of **COOMET Committee** (16-17 April 2014, Yekaterinburg, Russia); 12 meeting of the Joint Committee for Measurement Standards





COOMET MEMBERS





During the 23rd and 24th COOMET Committee meetings **Bosnia and Herzegovina** (2013) and **Turkey** (2014)

signed the COOMET MoU and became COOMET Associated members



COOMET PRESIDENT'S COUNCIL



COOMET President

Prof. Vladimir KRUTIKOV,

Director VNIIOFI, Russia,

was re-elected

at the 24th Meeting of COOMET Committee.



COOMET PRESIDENT'S COUNCIL

MATIONAL METROLOGICAL INSTITUTIONS	
	Areas of responsibility
COOMET President Prof. Dr. Vladimir Krutikov	General coordination of COOMET activities, Cooperation with Metre Convention institutions and EASC
COOMET Vice-President Prof. Dr. Nikolai Zhagora	Legal metrology cooperation
COOMET Vice-President Mr. Arpad Gonda	QMS cooperation
COOMET Vice-President Dr. Pavel Neyezhmakov	Metrological infrastructure and knowledge transfer, Cooperation with RMOs, COOMET official representative in JCRB
COOMET Vice-President Prof. Dr. Klaus-Dieter Sommer	Joint scientific research
Head of COOMET Secretariat Mr. Sergey KOMISSAROV	



COOMET CHAIRS, 2013

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ETROLOG	AN COOPERATION	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
1	TC1.4	FF /	nominee to be specified
	TC1.5	Č /	Vladimir KUPKO , NSC "IM", UKRAINE
	TC1.6	M	Iryna KOLOZINSKAYA, NSC "IM", UKRAINE
	TC1.7	PR	Boris KHLEVNOY, VNIIOFI, RUSSIA
	TC1.8	QM	Leonid KONOPELKO, VNIIM, RUSSIA
	TC1.9	RI	Vladimir YARINA, VNIIFTRI, RUSSIA
	TC1.10	Ť	Anatoly POKHODUN , VNIIM, RUSSIA
	TC1.11	TF	Vitaliy PALCHIKOV, VNIIFTRI, RUSSIA
	TC1.12	RM	Sergey MEDVEDEVSKIKH, UNIIM, RUSSIA
	TC2	LM	Peter ULBIG , PTB, GERMANY
	QF		Andreas ODIN , PTB, Germany
	TC3.1	QF \	Natalya MURAVSKAYA, VNIIOFI, RUSSIA
₹	TC4	ITTR	Pavel NEYEZHMAKOV , NSC "IM", UKRAINE
	TC5		Klaus-Dieter SOMMER , PTB, GERMANY



Meetings of the Technical Committees of COOMET in 2013-2014:

- TC 1.2 "Acoustics, Ultrasound, Vibration" (September 10-11, 2013, Bratislava, Slovakia)
- TC 1.4 "Flow Measurement" (September 9-13, 2013, Kazan, Russia)
- TC 1.5 "Length and Angle" (15-16 May, Braunschweig, Germany);
- TC 1.6 "Mass and Related Quantities" (16-17 October, 2013, Chisinau, Moldova)
- TC 1.7 "Photometry and Radiometry" (13-14 May, 2014, Moscow, Russia)
- TC 1.8 "Physical Chemistry" (23-24 May, Saint-Petersburg, Russia)
- TC 1.9 "Ionizing Radiation and Radioactivity" (28-29 April, 2014, "Uzstandard" Agency, Uzbekistan, Tashkent)
- TC 1.10 "Thermometry and Thermal Physics" (12-13 November, 2013, Baku, Azerbaijan)
- TC 1.11 "Time and Frequency" (10-11 October, 2013, Mendeleevo, Russia)
- TC 1.12 "Reference Materials" (9-11 September, 2013, Yekaterinburg, Russia)
- TC 2 "Legal Metrology" (17-19 September, 2013, Chisinau, Moldova)
- QF&TC 3.1 "Technical Committee of Quality Forum" (February 11 12, 2014, Minsk, Belarus)
- TC 4 "Information and training" (22–23 October 2013, Baku, Azerbaijan)



CIPM MRA IMPLEMENTATION

The QMS of **GEOSTM** (Georgia) was recognized 11 February 2014. It received the Certificate valid for 5 years.

The QMS of **AzStandart** (Azerbaijan) was presented; the preliminary peer review is planned for autumn 2014 together with presentations of the following QMSs: **VNIIMS**, **VNIIOFI**, **VNIIFTRI**, **VNIIM** (Russia) and **KazInMetr** (Kazakhstan).

Peer reviews will be conducted not earlier than 2015 (Russian institutes in spring and KazInMetr in September).



CIPM MRA IMPLEMENTATION

2177 CMC lines declared by NMIs of COOMET member countries were published in the KCDB as of 5 May 2014.

										Service Control of the
Country	Total	AUV	L	TF	Т	PR	M	EM	RI	QM
Belarus	196	8	13	31	37	3	3	39	51	11
Georgia	9	1		Sec. 1	9	12	\bigvee			
Kazakhstan	23		6	4	5		8		1	7.9
Cuba	96				8	8	12	-/-	76	
Moldova	40	1			40	1		4.5		
Russia	1606	72	20	36	137	108	63	325	329	516
Ukraine	207	23	25	30	35		5	53	15	21

ERPO-ASMATCADE COTPYZHMYECTRO FOCYZHACTBEHHNAX AETPONOFHIECHIE YMPEMZEHNÄ GENO-ASIAN COOPERATION OF MATRONAL METROLOGICAL INSTITUTIONS

CONFERENCES AND WORKSHOPS

- 1. V International Competition "Best Young Metrologist of COOMET 2013" (11–13 June 2013, Braunschweig, Germany).
- 2. 1st International scientific conference "Reference materials in measurement and technology" (10–14 September 2013, Yekaterinburg, Russia).
- 3. Workshop "Inspection and market surveillance (as regards metrology)" (18–19 September 2013, Chisinau, Moldova).
- **4.** Workshop for technical administrators of COOMET web-portal (3–4 December 2013, Braunschweig, Germany).
- **5.** Joint Seminar of COOMET/BIPM "Efficient Management of Comparisons and CMC Review Processes in COOMET" (15 April 2014, Yekaterinburg, Russia).



THE BEST YOUNG METROLOGIST OF COOMET

V International COOMET competition «Best Young Metrologist»

11-13 June, 2013 at PTB, Braunschweig, Germany.



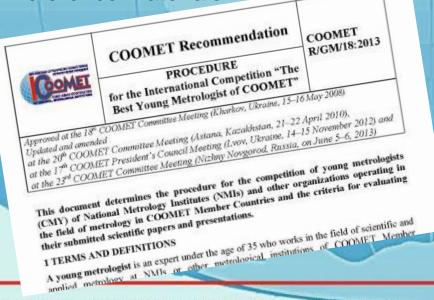


THE BEST YOUNG METROLOGIST OF COOMET

The judging panel consisted of 11 members coming from Germany, Belarus, Slovakia, Russia, France and Ukraine. They evaluated the oral reports and posters prepared by the participants of the competition.

Subject reports were divided on 5 sections:

- General Metrology, Special Topics;
- Chemical Medical Measurements;
- Electric and Optical Measurements;
- Mechanical Measurements;
- Reference Materials.





The competition was carried out according to the Recommendation COOMET R/GM/18:2013 Rules of procedure for the COOMET competition "Best young metrologist".



THE BEST YOUNG METROLOGIST OF COOMET

First prize winner Mrs. E. Ermakova (VNIIM, Russia).

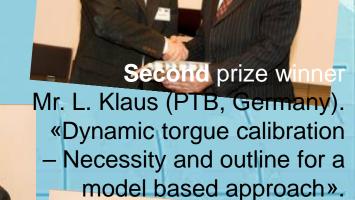
"Improving the system of metrological assurance in bomb calorimetry".

Third prize winner Mrs. Q. C. Zhu (NMIA, Australia). «Characterization and time domain analysis of coaxial connections».



Best poster winner Mrs. N.
Burmistrova (VNIIM,
Russia).

«Algorithm for obtaining
metrological compatibility of
measurement results for key
comparison data».







Efficient Management of Comparisons and CMC Review Processes in COOMET



The topics of the seminar were:

- an introduction into the history and tasks of the CIPM MRA (Dr. Michael Kühne);
- a report on the present situation within COOMET (Prof. Anna Chunovkina);
- a new requirements regarding CMC reviewing (Mr. Dzhingis Kuanbayev).

The seminar was positively assessed by COOMET officials and heads of TCs.

The seminar was supported by PTB–COOMET project "Support of the Regional Cooperation between the Member States of the Regional Metrology Organization COOMET".



WEB RESOURCES

The COOMET web-portal (<u>www.coomet.net</u>) is maintained by COOMET Secretariat and on-line editors of the pages of COOMET member-countries and TCs.

The COOMET website (www.coomet.org) is maintained by the experts of VNIIFTRI, Russia.





Lesson 2: Technical

Contacts

News Archive

Last Updates

COOMET eLearning

*Lessen 1: Management Reputer Notes | Management | Manage

This online course [current version is still beta] covers the main two articles of ISO/IEC 17025:

Lesson 1: Article 4 "Management Requirements"

Lesson 2: Article 5 "Technical Requirements"

Overview	
Number of questions: 18 Maximum points: 20	
0	

Lesson 1: Management Requirements

- 1.0 Organization and Management System (I)
- 1.1 Organization and Management System (II)
- 1.2 Document Control and Management System
- 1.3 Review of Requests, Tenders and Contracts
- 1.4 Subcontracting
- 1.5 Purchasing Services and Supplies
- 1.6 Service to the Customer
- 1.7 Complaints and Improvement, Corrective and Preventive Actions
- 1.8 Control of Records
- 1.9 Internal Audits and Managements Reviews



Lesson 2: Technical Requirements

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- 2.1 Organization and Personnel
- 2.2 Accommodation and Environmental Conditions
- 2.3 Test and Calibration Methods and Methods Validation
- 2.4 Equipment
- 2.5 Measurement Traceability
- 2.6 Sampling and Handling of Test and Calibration Items
- 2.7 Assuring Quality of Results and Reporting



NEXT COOMET MEETINGS AND EVENTS

The 25th COOMET Committee meeting will take place in spring 2015 in Tajikistan









Thank you for your attention!

www.coomet.net

www.coomet.org

e-mail: coomet@vniims.ru