

# COOMET Important Developments

**Prof. Dr. Pavel Neyezhnikov**  
**COOMET Vice-President**

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

**2-3 June 2015, Krakov, Poland**



## 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**

## GENERAL INFORMATION

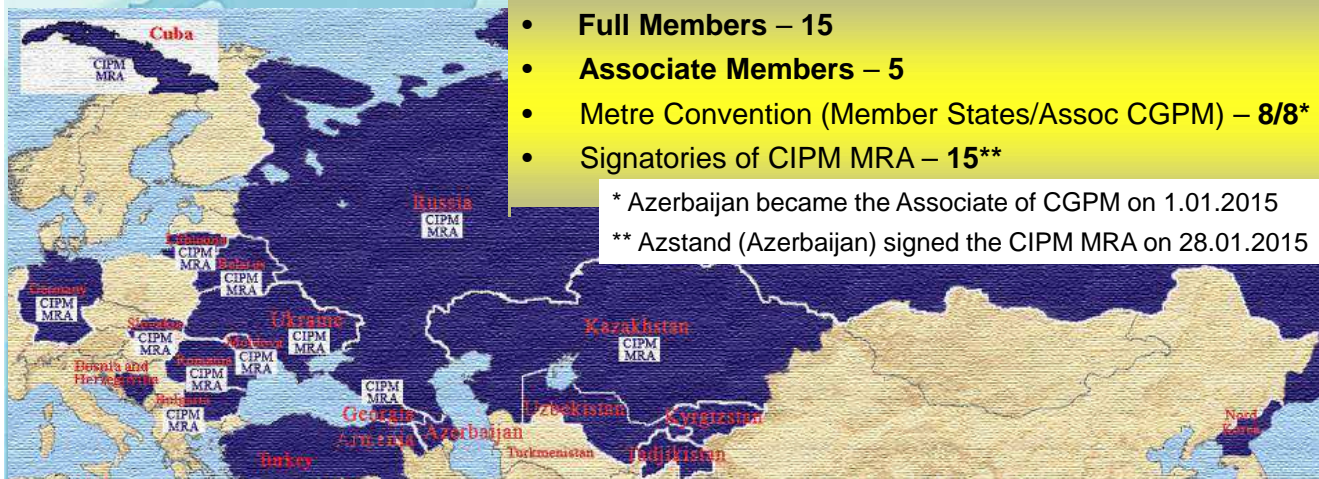
The main tasks of COOMET are the following:

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



ARMENIA  
AZERBAIJAN  
BELARUS  
BULGARIA  
CUBA



BOSNIA AND  
HERZEGOVINA  
GERMANY  
GEORGIA  
DPR OF KOREA  
KAZAKHSTAN

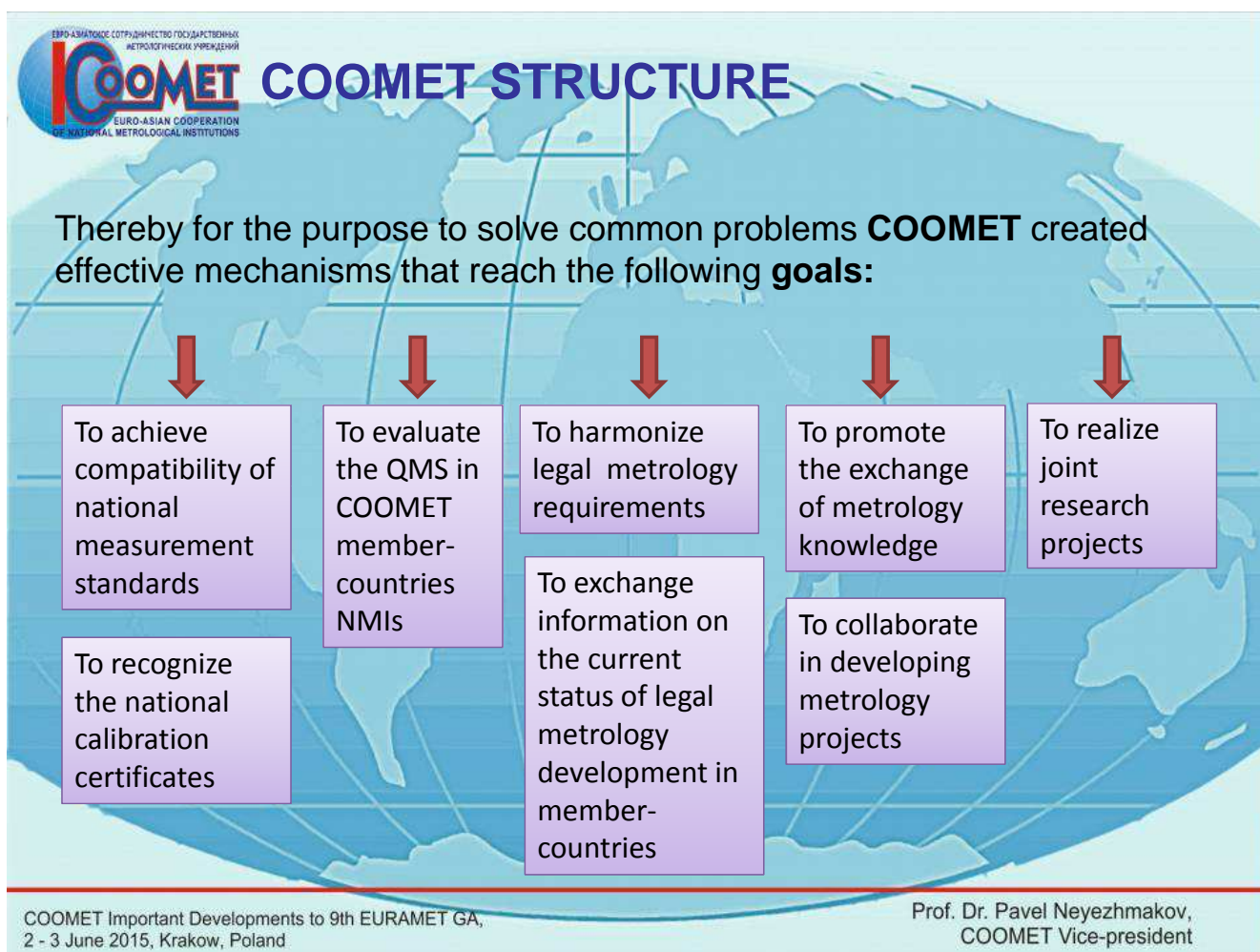
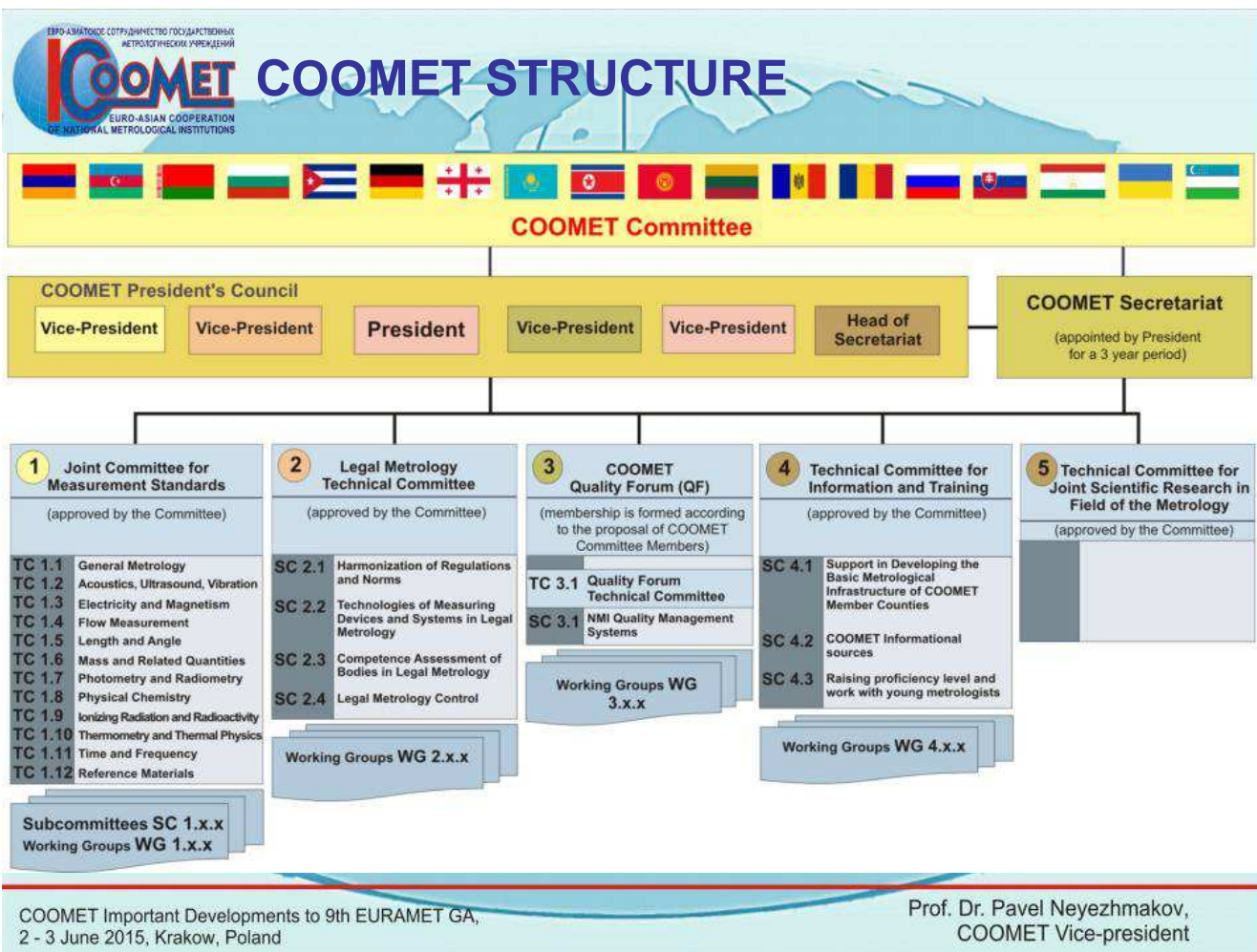


KYRGYZSTAN  
LITHUANIA  
MOLDOVA  
ROMANIA  
RUSSIA




SLOVAKIA  
TAJIKISTAN  
TURKEY  
UKRAINE  
UZBEKISTAN





## COOMET PRESIDENT's COUNCIL

		Areas of responsibility
	COOMET President <b>Prof. Dr. Vladimir Krutikov</b>	General coordination of COOMET activities, Cooperation with Metre Convention institutions and EASC
	COOMET Vice-President <b>Prof. Dr. Nikolai Zhagora</b>	 Legal metrology cooperation
	COOMET Vice-President <b>Prof. Dr. Pavel Neyezhmakov</b>	Metrological infrastructure and knowledge transfer, Cooperation with RMOs, COOMET official representative in JCRB
	COOMET Vice-President <b>Mr. Arpad Gonda</b>	 QMS cooperation
	<b>NEW</b> COOMET Vice-President <b>Dr. Peter ULBIG</b>	Joint scientific research
	Head of COOMET Secretariat <b>Mr. Sergey KOMISSAROV</b>	

## COOMET CHAIRS, 2015

JCMS	Anna <b>CHUNOVKINA</b> , VNIIM, RUSSIA, <b>new term</b>
TC1.1 GM	Anna <b>CHUNOVKINA</b> , VNIIM, RUSSIA, <b>new term</b>
TC1.2 AUV	Valentina <b>POZDEEVA</b> , BelGIM, BELARUS
TC1.3 EM	Tatyana <b>KOLOMIETS</b> , BelGIM, BELARUS
TC1.4 FF	Viktor <b>Fafurin</b> , VNIIR, RUSSIA
TC1.5 L	Vladimir <b>KUPKO</b> , NSC "IM", UKRAINE
TC1.6 M	Iryna <b>KOLOZINSKAYA</b> , NSC "IM", UKRAINE
TC1.7 PR	Boris <b>KHLEVNOY</b> , VNIIOFI, RUSSIA, <b>new term</b>
TC1.8 QM	Leonid <b>KONOPELKO</b> , VNIIM, RUSSIA
TC1.9 RI	<i>nominee to be specified</i>
TC1.10 T	Anatoly <b>POKHODUN</b> , VNIIM, RUSSIA
TC1.11 TF	Vitaliy <b>PALCHIKOV</b> , VNIIFTRI, RUSSIA
TC1.12 RM	Sergey <b>MEDVEDEVSKIKH</b> , VNIIM, RUSSIA
TC2 LM	Peter <b>ULBIG</b> , PTB, GERMANY
QF	Andreas <b>ODIN</b> , PTB, Germany
TC3.1 QF	Natalya <b>MURAVSKAYA</b> , VNIIOFI, RUSSIA
TC4 ITTR	Pavel <b>NEYEZHMakov</b> , NSC "IM", UKRAINE, <b>new term</b>
TC5	Klaus-Dieter <b>SOMMER</b> , PTB, GERMANY



## COOMET EVENTS

The following meetings were held in 2014 - 2015



25 meeting of **COOMET Committee**  
13 meeting of the **JCMS**  
(26 - 28 May 2015, Khusay, Tajikistan).



9 meeting of **COOMET PC**  
(10–11 December 2014,  
Braunschweig, Germany)



COOMET Important Developments to 9th EURAMET GA,  
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## COOMET WORKSHOPS

### MANAGEMENT OF COMPARISONS AND CMC REVIEW PROCESSES IN COOMET TC 1.6

September, 2014, Braunschweig, Germany.

The questions were discussed:

- The Metre Convention and the CIPM-MRA.  
Mechanisms and outcomes of the CIPM-MRA;
- General requirements for the competence of  
testing and calibration laboratories according to  
ISO 17025;
- Reference value of comparison. Methods of  
calculation reference value and criteria of choosing  
the method. Organization of ongoing comparisons;
- Definition of the problems, obstacles,  
difficulties, mistakes, etc. in the organization and  
carrying out of comparisons;
- Practical steps for CMC entries in KCDB;
- CMC review process in TC 1.6. Analyze of  
COOMET CMC in the field of mass and related  
quantities presented in KCDB.



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## MEASURING SYSTEMS IN LEGAL METROLOGY

16–17 September 2014, Moscow, Russia.

The seminar covered the following questions:

- The notion of measuring systems and related legislation;
- Basic principles and methods of metrological control of measuring systems;
- Smart meter and smart grids.

In these blocks the most interesting and relevant topics of the seminar have been discussed, with use of specific examples as well.



## MEASUREMENTS AND COMPARISONS OF ELECTRICAL RESISTANCE STANDARDS

14–15 October 2014, Braunschweig, Germany.

The Seminar was organized by PTB, Germany, and GEOSTM, Georgia, within COOMET Project 624/GE/13 "Comparison of electrical resistance standards at 100  $\Omega$  and 100 k $\Omega$ ".

The issues on the organization of comparisons were considered at the Seminar – scheme of comparisons, schedule and report.





## RIISING OF AWARENESS ABOUT OF COOMET ACTIVITY IN MEMBER-COUNTRIES: EXPERIENCE AND RECOMMENDATIONS

October, 2014, Yerevan, Armenia

The aims of the seminar were

- exchange of experience and best progress in increasing of awareness of the government, industry and stakeholders about the necessity of financing the metrological structure for national needs;
- signing, if it has not been signed, the CIPM MRA Agreement;
- development of recommendations, in particular, for countries with developing metrological infrastructure.

Within the seminar the participants prepared model plans with offers on increasing of awareness for the government, industry and laboratories, and then discussed their strong and weak sides.



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## 15 YEARS OF THE CIPM MRA: THE PROBLEMS OF IMPLEMENTATION AND THE WAYS OF THE EFFICIENCY IMPROVEMENT

26 May 2015, Khujand, Tajikistan.

1. State and prospects of the CIPM MRA.
2. Highlights of the CIPM MRA realization and PMOs position.
3. CMC confirmation based on the results of comparisons.

Discussion:

- Organization of COOMET ongoing comparisons within TC;
- Challenge issues of the CIPM MRA realization and the proposals of COOMET.



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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"**



## 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

- 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

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**The 26th COOMET Committee meeting will take place in Armenia.**



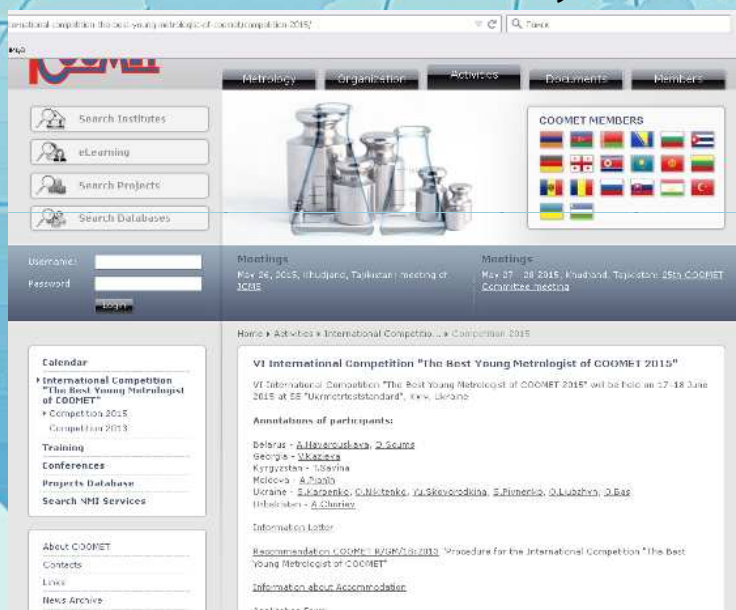
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# VI International Competition Best Young COOMET Metrologist

**Venue:**  
**Kiev, Ukraine**  
**17 - 18 of June 2015**

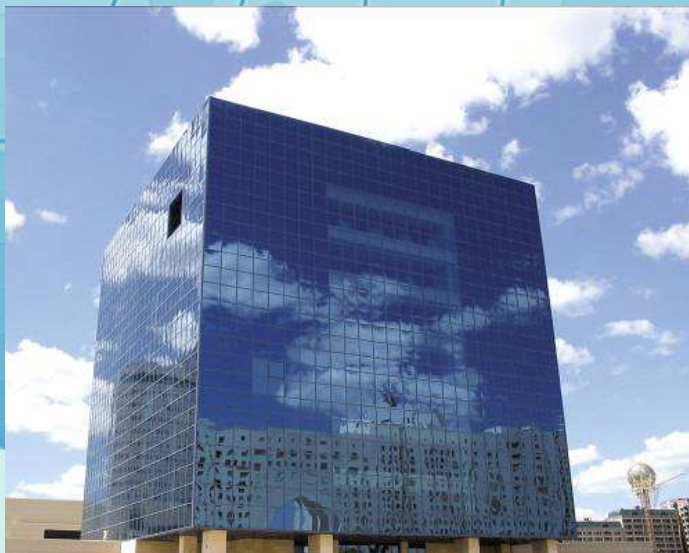


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## NEXT MEETING AND EVENTS

**The 34th meeting of the JCRB will take  
place on September 8 and 9, 2015  
at KazInMetr, Kazakhstan.**



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**Thank you for your attention.**

[www.coomet.net](http://www.coomet.net)

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