

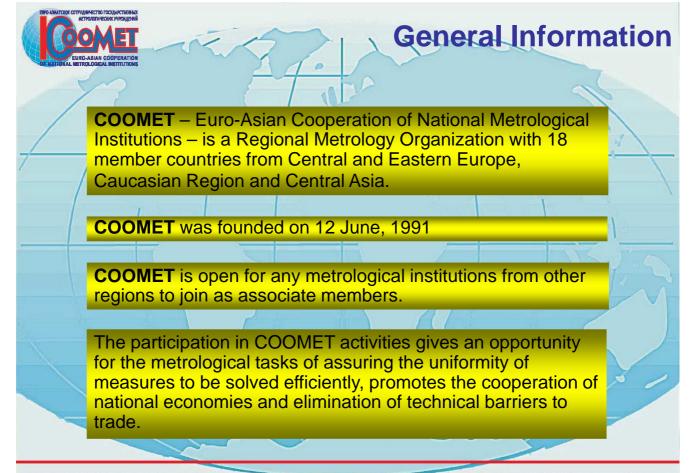
## COOMET REPORT to 6<sup>th</sup> GA EURAMET

#### Dr. Pavel Neyezhmakov COOMET Vice-President,

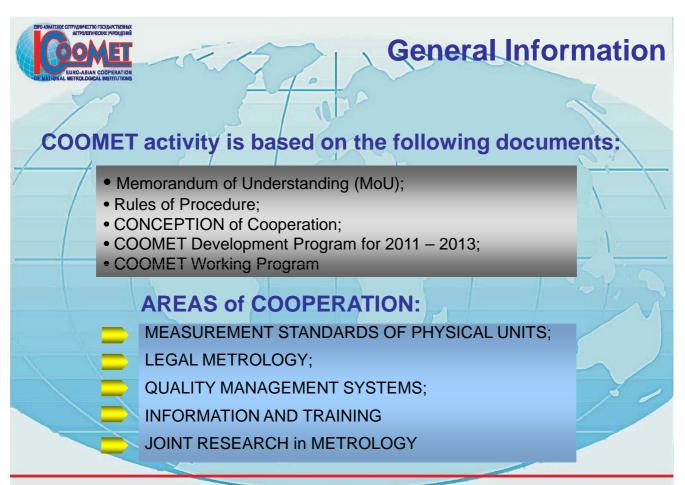
National Scientific Centre "Institute of Metrology", Kharkov, UKRAINE

Lyngby, Denmark, 22–23 May 2012

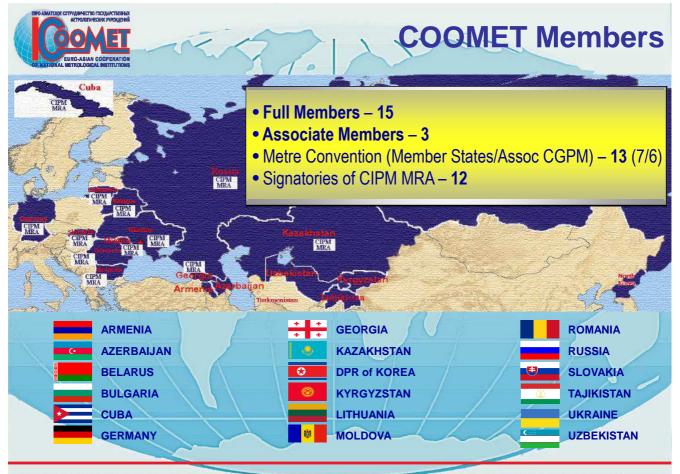
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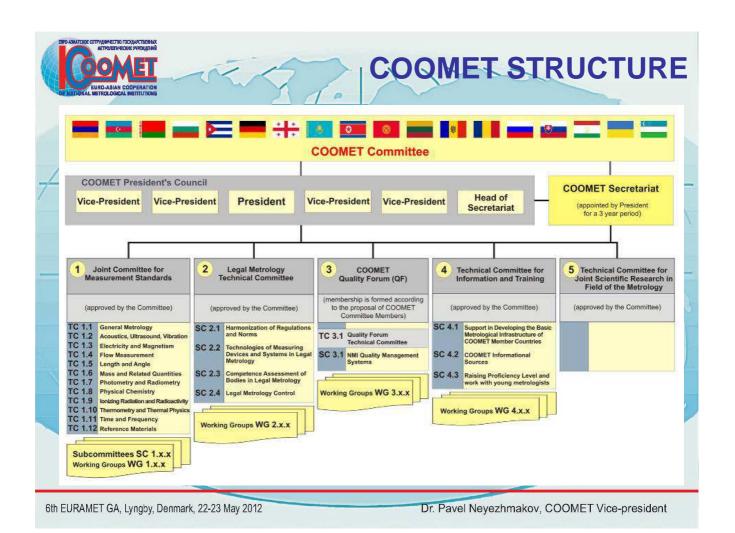
6th EURAMET GA, Lyngby, Denmark, 22-23 May 2012

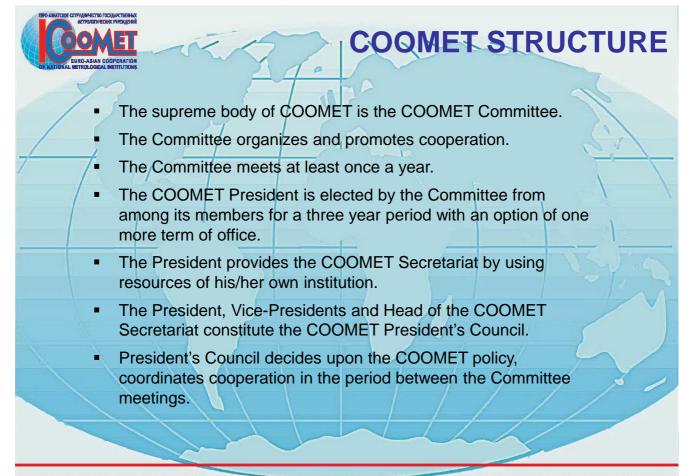


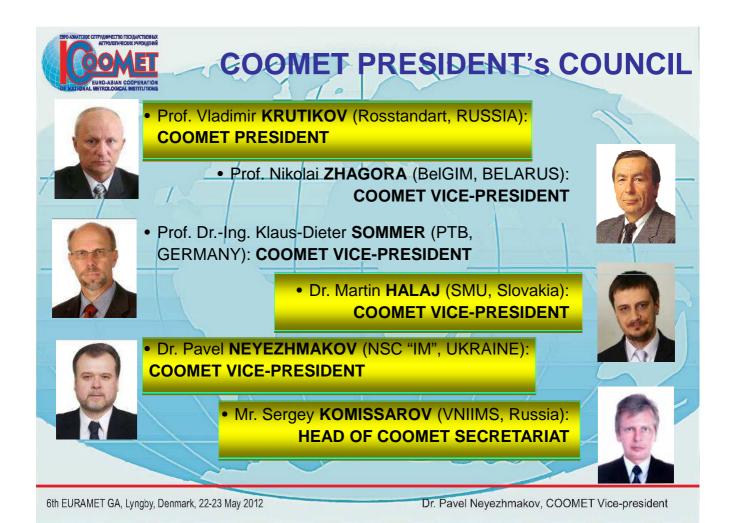
Dr. Pavel Neyezhmakov, COOMET Vice-president



6th EURAMET GA, Lyngby, Denmark, 22-23 May 2012







DEVAMATCHE COTYANA COD PERATOR ALTOURING COLOR STRONG BASE DE MATORIAL METROLOGICAL BESTILLITORS	COOMET Chairs, 2012
JCMS	Dr. Anna CHUNOVKINA, VNIIM, RUSSIA
• TCGM	Dr. Anna CHUNOVKINA, VNIIM, RUSSIA
- TCAUV	Mrs. Valentina POZDEEVA, BelGIM, BELARUS
• TCEM	Mrs. Tatyana KOLOMIETS, BelGIM, BELARUS
TCFF	Prof. Vladimir BOLSHAKOV, NSC "IM", UKRAINE
• TCL	Dr. Vladimir <b>KUPKO</b> , NSC "IM", UKRAINE
• TCM	Mrs. Iryna KOLOZINSKAYA, NSC "IM", Ukraine NEW
TCPR	Mr Boris KHLEVNOY, VNIIOFI, RUSSIA
• TCQM	Prof. Dr. Leonid KONOPELKO, VNIIM, RUSSIA
• TCRI	Prof. Dr. Vladimir YARINA, VNIIFTRI, RUSSIA
• TCT	Prof. Dr. Anatoly <b>POKHODUN</b> , VNIIM, RUSSIA
• TCTF	Prof. Dr. Vitaliy PALCHIKOV, VNIIFTRI, RUSSIA
• TCRM	Dr. Sergey MEDVEDEVSKIKH, UNIIM, RUSSIA NEW
• TCLM	Dr. Olaf <b>KÜHN</b> , LMET, GERMANY
• TCQS	Dr. Robert SPURNY, SMU, SLOVAKIA
• TCIT TR	Dr. Pavel NEYEZHMAKOV, NSC "IM", UKRAINE



### **COOMET** Events

#### Meetings of the Structural Bodies of COOMET

The following meetings were held in 2011-2012:
16th Meeting of COOMET President's Council

- (16–17 November 2011, Rostov-on-Don, Russia)
- 22 meeting of COOMET Committee (18–19 April 2012, Cholpon-Ata, Kyrgyzstan);
   10 meeting of the Joint Committee for
- Measurement Standards (17 April 2012, Cholpon-Ata, Kyrgyzstan).

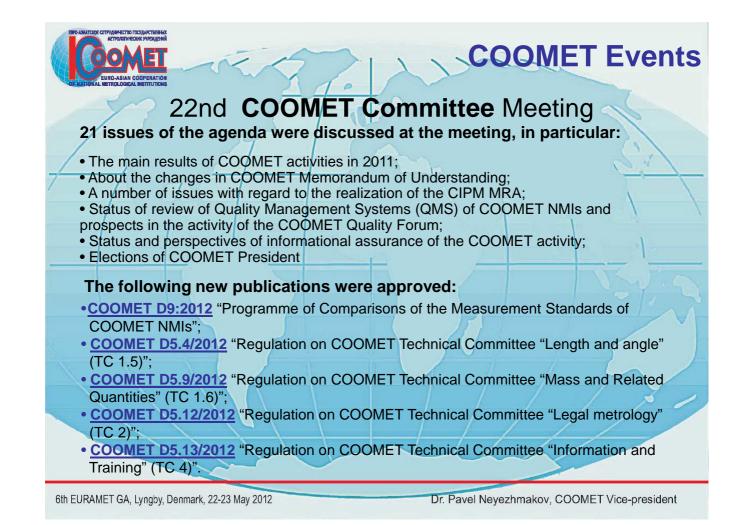




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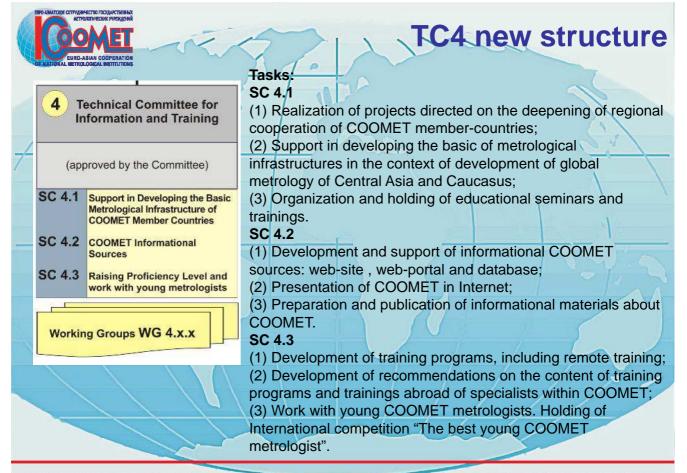






To approve the new structure of TC 4 "Information and Training"

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## Some other activities related to the CIPM MRA implementation



In compliance with **COOMET project 528/KZ/11** the training workshop on "Pilot comparison in the field of mass" was held on 24–26 May 2011 in Astana, Kazakhstan.

19 metrologists from 13 COOMET member countries took part in the workshop.

The aims of the workshop were:

• preparation for conducting COOMET pilot comparison in the field of mass (submultiply and multiply units of kilogram)

 practical exercise on measurement in the mass laboratory of KazInMetr;

 practical exercises on uncertainty calculation of mass measurements;

 necessary steps on CMC preparation for publishing in KCDB;

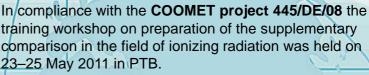
• increasing and expansion of technical possibilities of national institutes on the example of mass laboratory of KazInMetr.

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# Some other activities related to the CIPM MRA implementation



21 metrologists from 15 COOMET member countries took part in the workshop.

The goal of the Workshop was to prepare the participants for the procedure to get entrances into the CMC list in the area of Ionizing Radiation, Section I, X and gamma rays.

Topics of the Workshop were a review on the current status of air kerma standards, reference X radiation qualities used in radiation therapy, diagnostic radiology and radiation protection, calibration procedures and their uncertainties, procedures of regional key- and supplementary comparisons in ionizing radiation (X and gamma rays). During the Workshop there was a practical demonstration of the calibration of an ionization chamber in terms of air kerma at the X rays and Cs-137 irradiation facilities of the PTB.

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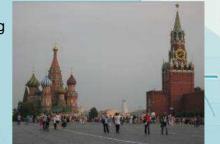
## Coordination of work with young metrologists

Such area as work with young metrologists is being developed in COOMET since 2005. Since 2005 the competition "The Best Young Metrologist of COOMET" is held every two years in different COOMET countries.

The first two competitions took place at the NSC "Institute of Metrology" (Ukraine) in 2005 and 2007, the third competition took place in BelGIM (Belarus) in 2009, and the fourth was held in Russia on 15–17 June 2011.

During these years 100 young metrologists from almost all COOMET Member Countries took part in the competition.





The scope of presented scientific papers of competitors can be divided into three main groups of metrological works: •metrological assurance of modern technologies; •creation and improvement of measurement standards, instruments and methods of quality unit transfer; •metrological assurance of the main problems of economy and social sphere.

The next competition will be held in PTB, Germany, in Spring 2013.

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## Some activities related to the Developing Economies

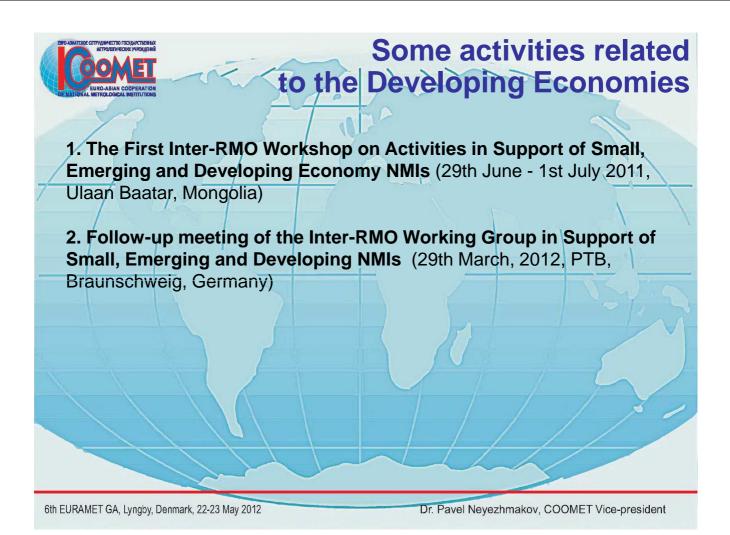
Training workshop "Experience and achievements in legal metrology" (7–8 September 2011, Yerevan, Armenia). 10 representatives from 10 COOMET member-countries took part in the workshop.

Such topics as: European Directives and principles of mutual recognition, Law on metrology OIML D1, market surveillance on service putting into market etc.



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## Implementation of COOMET projects

The cooperation in scientific metrology was successfully coordinated within almost 20 years period based on COOMET MoU. However, the intensity of this cooperation required new forms, that is why for the purpose development of a concept of joint research was proposed project COOMET 492/DE/10 "Development of a concept for joint metrological research in **COOMET** member countries". Within the project there was created a working group. Three Questionnaires have been prepared. These Questionnaires are being filled in by COOMET member countries at the moment. This issue was discussed at the 22<sup>nd</sup> COOMET Committee meeting. The workshop on this issue is planned to be held in late June 2012 in Kharkov,

Ukraine.

PROPOSED PROJECT COOMET				
Reference No.:	2 Subject Field:			
492/DE/10	TC 5, Research and Development			
Yeld of cooperation: nt metrological research and development of t	he COOMET member countries			
tartners: erested member countries				
ubject: velopment of a concept for joint metrological	research in COOMET member countries			
Description:				
<ul> <li>State-of-art analysis</li> </ul>				
<ul> <li>Research need of participating countri</li> </ul>				
<ul> <li>Structuring and prioritizing of potentia</li> </ul>				
	ommon interest (e.g. metrology for energy, for afety etc grand challenges in the field of metrology)			
<ul> <li>Expected social and economical impact</li> </ul>	t of the research and development outcome			
<ul> <li>Proposed operational and organisation</li> </ul>	al structure of a joint research programme			
<ul> <li>Prosposed funding of a joint metrologi</li> </ul>	cal research programme			
dditional remarks:				
<ul> <li>20.04.2010 – first meeting of country in</li> </ul>				
<ul> <li>Presentation of the project results: 21.</li> </ul>	COOMET Committee Meeting, 2011			
roposer's Name: Prof. DrIng. Klaus-Dieter	Sommer			
dress: 38116 Braunschweig, Bundesallee 100,	Germany			
one: +49-(0)531-592-3010 Fax: +49-(0)531-	592-3015 E-mail: Klaus-Dieter.Sommer@ptb.de			
roposer's signature: 10 Date: 2010-02-17	11 Proposed starting date: 20. COOMET Committee meeting, 2010			
Signature of the COOMET Committee Me me: Prof. Dr. Klaus-Dieter Sommer Si	mber:			

6th EURAMET GA, Lyngby, Denmark, 22-23 May 2012

According to the results of the analysis	PROPOSED PROJECT COOMET	
the following will be proposed:	1 Reference No.:	2 Subject Field:
<ul> <li>operational and organizational structure</li> </ul>	492/DE/10	TC 5, Research and Development
of a joint research programme;	3 Field of cooperation: Joint metrological research and development of the COOMET member countries	
<ul> <li>funding sources of a joint metrological</li> </ul>	4 Partners: Interested member countries	
research programme.	5 Subject: Development of a concept for joint metrological	ogical research in COOMET member countries
The project will be able to produce a dynamic impact on all participating member countries, establishing a network of new contacts and connections between the technical staff and the institutions themselves.	environment, for health, security • Expected social and economical • Proposed operational and organi • Prosposed funding of a joint mee 7 Additional remarks: • 20.04.2010 – first meeting of co	otential research projects ts of common interest (e.g. metrology for energy, for and safety ec. grand challenges in the field of metrology) impact of the research and development outcome sational structure of a joint research programme trological research programme untry representatives in Astana, Kazakhstan is; 21, COOMET Committee Meeting, 2011
The development and implementation of joint research projects in COOMET will have a considerable contribution to science and will stimulate innovations to solve metrology problems in COOMET member countries.	Address: 38116 Braunschweig, Bundesalle	e 100, Germany 0)531-592-3015 E-mail: Klaus-Dieter.Sommer@ptb.de 11 Proposed starting date: 20. COOMET Committee meeting, 2010

