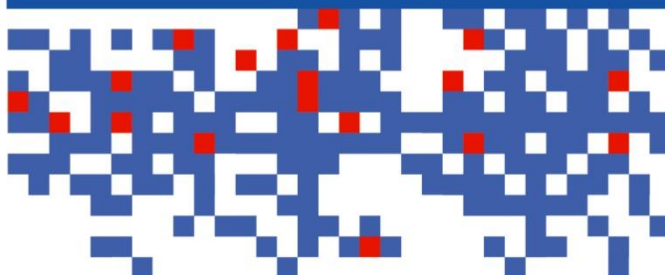



# COOMET DIRECTORY 2017

(as of 31st of March, 2017)



**MOSCOW**



This edition of the COOMET Directory was prepared by the acting COOMET Secretariat and published in two versions, Russian and English, the official languages of COOMET documents. The information about metrology infrastructures in the COOMET Member Countries was updated and kindly provided to the COOMET Secretariat by these countries.

Your questions or remarks concerning the material given in the Directory are welcome to [coomet@vniims.ru](mailto:coomet@vniims.ru)

The electronic version of the COOMET Directory is available on the COOMET web-portal at [www.coomet.net](http://www.coomet.net) and COOMET website at [www.coomet.org](http://www.coomet.org).

The COOMET Secretariat address  
46 Ozernaya Str.  
119361 Moscow  
RUSSIA  
Telephone  
+7495 781 90 81  
+7495 437 99 59  
Fax  
+7495 437 56 66  
E-mail  
[coomet@vniims.ru](mailto:coomet@vniims.ru)

Editor of the Russian version  
*Sergey Zhdankin*  
Editor of the English version  
*Sergey Zhdankin*  
Page layout by  
*Sergey Zhdankin*

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**COOMET** is a regional organisation originally establishing cooperation of national metrology institutions of the countries of Central and Eastern Europe. It was founded in June, 1991 and renamed in **Euro-Asian Cooperation of National Metrological Institutions** in May, 2000. COOMET is open for any metrology institutions from other regions to join as associate members.

Now the members of COOMET are metrology institutions from **Armenia, Azerbaijan, Belarus, China** (Associate Member), **Bosnia and Herzegovina** (Associate Member), **Bulgaria, Georgia, Germany** (Associate Member), **Kazakhstan, Kyrgyzstan, DPR of Korea** (Associate Member), **Cuba** (Associate Member), **Lithuania, Moldova, Russia, Romania, Slovakia, Tajikistan, Turkey** (Associate Member), **Uzbekistan and Ukraine**.

The basic activity of COOMET is cooperation in the following areas: measurement standards of physical quantities, legal metrology, quality management systems, information and training.

**The objectives of COOMET** are as follows:

- assistance in effectively addressing the problems relating to uniformity of measures, uniformity of measurements and the required accuracy of their results;
- assistance in promoting cooperation of national economies and eliminating technical barriers in international trade;
- harmonisation of activities of metrology services of Euro-Asian countries with similar activities in other regions.

COOMET strictly adheres to **the Memorandum of Understanding (MoU)** and **Rules of Procedure** in any of its activities.

**COOMET countries cooperate in the following subject fields:** acoustics, ultrasound, vibration; electricity and magnetism; flow measurement; ionising radiation and radioactivity; length and angle; mass and related quantities; photometry and radiometry; physical chemistry; thermometry and thermal physics; time and frequency; reference materials; general questions concerning measurements (general metrology); legal metrology; quality management systems;

information and information technology; training and raising proficiency level of experts.

The supreme body of COOMET is **the COOMET Committee** consisting of heads of national metrology institutions from COOMET Member Countries. The Committee organises and promotes cooperation. The Committee meets at least once a year.

**The COOMET President** is elected by the Committee from among its Members for a three year period with an option of one more term of office. The President provides **the COOMET Secretariat** by using resources of his/her own institution.

The President proposes candidates of **COOMET Vice-Presidents** from among the Members of the Committee for further approval by the Committee. The President, Vice-Presidents and Head of the COOMET Secretariat constitute **the COOMET President's Council**, which decides upon the COOMET policy, interacts with international and regional metrology organisations, coordinates cooperation in the period between the Committee meetings and distinguishes problems to be discussed at these meetings.

Organisation of work in the basic fields and directions of cooperation is the major task of **the Structural Bodies of COOMET (the Joint Committee, Technical Committees, and Quality Forum)**.

The Committee Members appoint their representatives to the Structural Bodies of COOMET (**Correspondents**) from among candidates in their countries. The Correspondents propose a candidate for the position of **the Chairperson of a Structural Body** for its further approval by the COOMET Committee.

The Structural Bodies can establish **Subcommittees (SCs)** for working on routine tasks of cooperation and **Working Groups (WGs)** within corresponding SCs/TCs for carrying out specific work on COOMET projects.

**The official languages** for the COOMET meetings and documents are **Russian and English**.

COOMET has no financial assets of its own.

By its scope of cooperation COOMET belongs to organisations of a multi-purpose type.

The activities of COOMET are carried out in line with ***the Conception of Cooperation and Related Activities of COOMET*** approved in 2005 and ***COOMET Development Programmes*** for a period of two or three years approved by the COOMET Committee.

An important prerequisite of COOMET effectiveness is the collaboration in all fields of activities. Jointly realised projects are the core elements of ***the COOMET Working Programme***.

Nowadays the main attention is paid to the cooperation in the field of measurement standards, in particular to the implementation of the CIPM Arrangement on Mutual Recognition of National Measurement Standards and Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA). Therefore, the majority of the COOMET projects are dedicated to the preparation of information on calibration and measurement capabilities (CMC), participation in key comparisons of national measurement standards organised by CIPM and organisation of regional comparisons of measurement standards, as well as creation and implementation of Quality Management Systems of the National Metrology Institutes of COOMET Member Countries.

The subjects of cooperation of COOMET Member Countries in the field of legal metrology encompasses a broad range of problems, starting with harmonisation of the national requirements in the area of legal metrology in the Member Countries and finishing with such applied problems as testing of software for measuring instruments, control of prepackages.

COOMET activities in the field of information support and training are also substantially related to the implementation of the CIPM MRA (e.g. in developing software for the CMC database and comparisons of measurement standards of the NMIs of COOMET Member Countries). It is also aimed at

the exchange of training programmes for experts in the area of metrology, development of exchange programmes for experts in COOMET countries, determination of criteria for assessing scientific papers of young metrologists, etc.

COOMET is a member of the Joint Committee of the Regional Metrology Organisations and the BIPM (JCRB), as well as keeps close relations with OIML according to the Agreement with the International Bureau of Legal Metrology (BIML) signed in 1993.

Based on mutual interests, COOMET also cooperates with Regional Metrology Organisations such as

- European Association of National Metrology Institutes (EURAMET),
- European Cooperation in Legal Metrology (WELMEC),
- European Cooperation for Accreditation (EA),
- Asia-Pacific Metrology Programme (APMP),
- Asia-Pacific Legal Metrology Forum (APLMF),
- Asia Pacific Laboratory Accreditation Cooperation (APLAC),
- National Conference of Standards Laboratories International (NCSLI),
- Scientific & Technical Commission on Metrology (STCMetr) of Euro Asian Council for Standardization, Metrology and Certification (EASC),
- Intra-African Metrology System (AFRIMETS),
- Inter-American Metrology System (SIM), etc.

COOMET is a joint forum of metrologists of Euro-Asian region, effectively working regional metrology organisation which successfully fulfils its tasks according to approved long term programmes. Cooperation within COOMET and its results allow its Member Countries to successfully solve metrological issues the national economies face under the conditions of market globalisation.

# MEMORANDUM OF UNDERSTANDING

The National Metrology Institutions on behalf of which this Memorandum has been signed

## **considering**

- the territorial proximity of the Countries and their mutual economic relations;
- the need to permanently improve metrological services for the benefit of economic and scientific relations;
- the similarity of their structures and the operational principles of their National Metrology Services;
- their combined experience and the results of their previous bilateral and multilateral cooperation;
- their willingness to more closely cooperate with international and regional metrology organisations

**declare** their intention to cooperate in the field of measurement standards of physical units, calibration, legal metrology, quality management systems, information technology and training in the field of metrology within the COOMET organisation given below.

## **SECTION 1 – COOMET MEMBERS**

COOMET is an organisation for the Euro-Asian cooperation of National Metrology Institutions (from the countries of Central and Eastern Europe, Asia and nearby countries) and is open to the National Metrology Institutions of countries from other regions to join it.

## **SECTION 2 – COOMET OBJECTIVES**

The objectives of COOMET are as follows:

1. To contribute to effectively solving problems of the uniformity of measures, uniformity and required accuracy of measurements.
2. To contribute to establishing closer cooperation between the national economies and removing technical barriers to international trade.
3. To harmonise the activities of Metrology Services on the basis of international arrangements.

## **SECTION 3 – COOMET TASKS**

The tasks of COOMET are to strengthen the links between the National Metrology Institutions interested in solving common problems and to create effective mechanisms in order to:

- achieve compatibility of measurement standards and harmonise the requirements imposed on measuring instruments and methods for their metrological control;
- recognise the equivalence of national certificates authenticating the results of metrological activities;
- exchange information on the current status of National Metrology Services and their development;
- collaborate in developing metrological projects;
- promote the exchange of metrological services.



# MEMORANDUM OF UNDERSTANDING

## SECTION 4 – PRINCIPAL FIELDS OF COOPERATION WITHIN COOMET

The principal fields of cooperation within COOMET include:

- realisation of the CIPM Arrangement on Mutual Recognition of National Measurement Standards and Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA);
- establishment and maintenance of primary standards of units and scales of physical quantities;
- dissemination of units from primary standards to working measuring instruments;
- participation in the CIPM key comparisons of national measurement standards and carrying out of regional comparisons of measurement standards;
- development of new measurement methods and new types of high accuracy measuring instruments;
- solution of problems of general metrology, including problems of the theory of measurement and uncertainties, system of units, terminology;
- establishment of a system of gathering and dissemination of information on metrology and measurement techniques, information technology;
- definition, collection, evaluation and certification of reference data used in metrology;
- creation and use of reference materials of composition and properties of substances and materials;
- harmonisation of requirements for measuring instruments subject to metrological control, as well as methods for their testing taking into consideration international recommendations;
- preparation of conditions for mutual recognition of results of metrological control and metrological supervision;
- implementation of calibration and recognition of its results according to the rules and procedures set up by international organisations;
- creation and implementation of Quality Management Systems of National Metrology Institutes;
- training and raising proficiency level of experts;
- improvement of the activities of the Organisation and its structural bodies.



# MEMORANDUM OF UNDERSTANDING

## SECTION 5 – STRUCTURE OF COOMET AND WORKING PROCEDURES

1. The COOMET body initiating and supporting cooperation is the Committee. It consists of the Heads of National Metrology Institutions of the COOMET Member Countries or persons appointed by them, one representative from each institution. The Committee ensures that the activity of COOMET is pursued in accordance with its objectives and contributes to accomplishing its tasks.
2. The Committee elects the President from among its Members, for a period of three years, with the eligibility to be re-elected for one subsequent term of office.
3. Each Committee Member accompanied by experts may take part in its meetings. Only Committee Members may vote.
4. The Committee may invite observers from other international or regional organisations to take part in their meetings.
5. The Committee meets as often as required but at least once per year.
6. At the suggestion of the President, the Committee approves nominees for the positions of Vice-Presidents from among its Members. The President, Vice-Presidents and Head of the COOMET Secretariat form the President's Council, which develops the policy of cooperation within COOMET, interacts with international and regional metrology organisations, organises cooperation between the Committee meetings and prepares questions to be considered at these meetings.
7. A year before scheduled election of a new COOMET President the COOMET Committee nominates a candidate which after mutual approval becomes a Member of the President's Council having a status of President Elect. After the expiry of a three year period of presidency the COOMET President keeps the status of Former President for one more year. At the end of this year the President Elect becomes an active COOMET President.
8. The Committee decides on its own Rules of Procedure and on those of other COOMET bodies.
9. As a rule the COOMET Secretariat is provided by the National Metrology Institute of the COOMET President.
10. The Secretariat assists the President and the President's Council in the management of COOMET and ensures contacts between the Committee Members, as well as between the Committee, structural and working bodies of COOMET.
11. Following the decision of the COOMET Committee the following COOMET Structural Bodies are established for the purpose of initiating work in the major fields and directions of cooperation: Joint Committees (JC), Technical committees (TC), Councils, Forums, etc.  
The scope of their objectives, tasks and working and collaboration procedures is specified in relevant Provisions approved by the COOMET Committee.  
Each COOMET Structural Body is headed by a chairperson appointed by the COOMET Committee for a period of 4 years with the possibility to prolong this period.
12. Structural Bodies may establish:
  - Subcommittees (SCs) in order to address the permanent tasks of collaboration;
  - Working Groups (WGs) within relevant SCs/TCs in order to carry out routine work on COOMET projects.
13. Terms of reference, head and staff of a SC are defined by the corresponding Technical Committee and approved by the COOMET Committee for a period of 3 years with possible prolongation of this period.
14. Organizational and financial matters are managed by structural and working bodies individually taking into account the hierarchy of the COOMET bodies.
15. National Metrological Institutions that are Members of COOMET may invite other institutions in their countries to cooperation, at their own discretion, for working on a project.



# MEMORANDUM OF UNDERSTANDING

## SECTION 6 – LANGUAGES

1. The languages of the Committee meetings are English and/or Russian.
2. Documents of wide dissemination to be received and sent by the Secretariat must be edited both in English and Russian.
3. Final reports written after completion of projects may be in English, French, German or Russian. The authors of the report are given the choice of a language sufficiently understood by those to whom they wish to convey their information or considerations.
4. In other cases, any language the cooperating partners consider adequate for their communication may be used.

## SECTION 7 – RIGHTS

In order to achieve the objectives of COOMET, each Member of the Organisation will have the following rights:

- to have access, upon agreement, to national standards of other Members of COOMET;
- to seek cooperation and assistance in solving metrological problems;
- to propose projects for joint work and participate in their implementation;
- to receive information on the results of activities of COOMET Bodies.

## SECTION 8 – OBLIGATIONS

In order to achieve the objectives of COOMET, each Member of the Organisation will accept the following obligations:

- to provide the Committee, upon its request and within reasonable limits, with information on projects carried out and planned in accordance with the scope of the COOMET activities;
- to provide COOMET Members with assistance and services upon mutual agreement;
- to participate in joint COOMET projects depending on its financial and technical resources, as well as its interest and competence;
- to maintain the confidentiality of any information on the results of type tests, verifications and calibrations of measuring instruments submitted by cooperating partners;
- to take into consideration the COOMET recommendations in the activity of its National Metrology Institutions and to promote the implementation of the results of COOMET projects in its country.



# MEMORANDUM OF UNDERSTANDING

## SECTION 9 – COOPERATION WITH INTERNATIONAL AND REGIONAL ORGANISATIONS

1. COOMET will make best use of the results of work of international metrology organisations:
  - International Organisations within Metre Convention: General Conference on Weights and Measures (CGPM), International Committee for Weights and Measures (CIPM) and International Bureau of Weights and Measures (BIPM);
  - International Organisation of Legal Metrology (OIML), International Committee for Legal Metrology (CML) and International Bureau of Legal Metrology (BIML);
  - International Laboratory Accreditation Cooperation (ILAC);
  - International Accreditation Forum (IAF);
  - International Measurement Confederation (IMEKO), etc.,
  - as well as other organisations of interest to metrology such as ISO, IEC, CODATA, and will follow their recommendations in its activities.
2. COOMET intends to cooperate, as far as there is mutual interest, with regional metrology organisations:
  - European Association of National Metrology Institutes (EURAMET),
  - European Cooperation in Legal Metrology (WELMEC),
  - European Cooperation for Accreditation (EA),
  - Asia-Pacific Metrology Programme (APMP),

- Asia-Pacific Legal Metrology Forum (APLMF),
- Asia Pacific Laboratory Accreditation Cooperation (APLAC),
- Scientific & Technical Commission on Metrology (STCMetr) of Euro Asian Council for Standardization, Metrology and Certification (EASC),
- Intra-African Metrology System (AFRIMETS),
- Inter-American Metrology System (SIM), etc.

## SECTION 10 – VALIDITY OF MEMORANDUM

1. This Memorandum will come into operation on the date of its signing by at least four Signatories and remain open for further participants.
2. This Memorandum may be amended at any time by written agreement between at least three quarters of the Signatories.
3. If a Member on behalf of which this Memorandum has been signed, for any reason whatever, intends to terminate its participation in COOMET, it will notify the President of the COOMET Committee of this intention not later than six months in advance.
4. This Memorandum is concluded for a term of five years. Unless within this five year period revision or termination is proposed to the COOMET Committee by at least one third of the Signatories this Memorandum of Understanding will remain in effect for another five year period.



# MEMORANDUM OF UNDERSTANDING

## SECTION 11 – LIMITATIONS

1. Decisions of COOMET have an exclusively recommendatory nature.
2. The Secretariat's activities are financed at the expenses of the Party presiding in the COOMET Committee. On a voluntary basis, other COOMET Members can render financial support to the Secretariat, the President's Council and other COOMET bodies for the implementation of specific tasks.
3. This Memorandum does not limit the rights and obligations of the COOMET Members arising from other bilateral or multilateral cooperation agreements.

**Done in Warsaw on 12 June 1991**

**in English and Russian,**

updated and amended at the 10<sup>th</sup> COOMET Committee Meeting

in Almaty, Kazakhstan, on 25–26 May, 2000;

at the 12<sup>th</sup> COOMET Committee Meeting

in Havana, Cuba, on 6–7 May, 2002;

at the 15<sup>th</sup> COOMET Committee Meeting

in Vilnius, Lithuania, on 8–9 September, 2005,

at the 16<sup>th</sup> COOMET Committee Meeting

in Braunschweig, Germany, on 4–5 September, 2006, and

at the 19<sup>th</sup> COOMET Committee Meeting

in Baku, Azerbaijan, on 20–21 May, 2009

at the 22<sup>th</sup> COOMET Committee Meeting

in Cholpon-Ata, Kyrgyzstan, on 18–19 April, 2012



# RULES OF PROCEDURE

Rules of Procedure presented below were agreed at the first COOMET Committee Meeting held in Warsaw on 13–14 November, 1991 and updated and amended at the 10<sup>th</sup> COOMET Committee Meeting (25–26 May, 2000, Almaty, Kazakhstan), at the 12<sup>th</sup> COOMET Committee Meeting (6–7 May, 2002, Havana, Cuba), at the 15<sup>th</sup> COOMET Committee Meeting (8–9 September, 2005, Vilnius, Lithuania), at the 16<sup>th</sup> COOMET Committee Meeting (4–5 September, 2006, Braunschweig, Germany), at the 18<sup>th</sup> COOMET Committee Meeting (15–16 May, 2008, Kharkov, Ukraine), at the 19<sup>th</sup> COOMET Committee Meeting (20–21 May, 2009, Baku, Azerbaijan) and at the 20<sup>th</sup> COOMET Committee Meeting (21–22 April 2010, Astana, Kazakhstan).

They amend the description of the COOMET structure and activities which are part of the Memorandum of Understanding and were adopted in accordance with Article 8 Section 5 of the Memorandum and should promote the effective solution of cooperation problems in the shortest time possible according to established procedures using modern information technology and communication facilities.

## MEMBERS OF COOMET AND MEMBERS OF COOMET COMMITTEE

- From each State only one National Metrology Institution on behalf of which the Memorandum of Understanding has been signed, may be a Member of COOMET.
- Each COOMET Member must inform the President about the name and address of its appointed Committee Member.
- The Committee shall elect its President by secret ballot, by a simple majority of votes.
- A COOMET Member not represented at two

consecutive Committee meetings without giving the reasons for its absence shall be considered as having terminated its participation in COOMET.

Decision on the termination of participation of a COOMET Member in COOMET is to be made by open voting based on a simple majority of votes at the next COOMET Committee meeting.

## 2. COOMET PROJECTS

### 2.1. GENERAL

For each collaborative project a COOMET Project Form must be completed and sent to the Secretariat, which will arrange for its distribution to all Committee Members and to the head of the relevant SC/TC. This will enable all COOMET Members to keep themselves informed of areas of possible cooperation providing them with an opportunity to join cooperation.

Three separate forms are available 1:

**PROPOSED COOMET PROJECT FORM**

**AGREED COOMET PROJECT FORM**

**COOMET PROJECT PROGRESS/FINAL REPORT FORM**

Proposals for COOMET collaboration projects may be presented at any time. The collection of Agreed COOMET Projects will represent the working programme of COOMET.

The Committee Members will monitor the COOMET projects to ensure they are in agreement with COOMET aims and tasks and are conducted in accordance with the adopted procedures. The COOMET cooperation can be extended to involve institutions from non-member countries in the projects provided the participants of the cooperation agree.

Notes for the completion of the Forms are given in **Annexes 1-3** on pages 132-137.

1. Notes for the completion of the Forms are given in **Annexes 1-3** on pages 132-137.

## 2.2. SUBJECT FIELDS

The project should belong to one of the following subject fields:

- Acoustics, ultrasound, vibration;
- Electricity and magnetism;
- Flow measurement;
- Ionising radiation and radioactivity;
- Length and angle;
- Mass and related quantities;
- Photometry and radiometry;
- Physical chemistry;
- Thermometry and thermal physics;
- Time and frequency;
- Reference materials;
- General questions concerning measurements (General metrology);
- Legal metrology;
- Quality management systems;
- Information and information technology
- Joint scientific research.

## 2.3. PROPOSED COOMET PROJECT

The Proposer of a project shall fill in the form (Annex 1, see page 132), and send it to the COOMET Secretariat through the COOMET Committee Member of his/her country. The COOMET Secretariat shall register the project and distribute the form to the head of the relevant SC/TC, as well as to all COOMET Committee Members who will inform the Proposer and the COOMET Secretariat of their interest within a period of three months. In case if COOMET Members show no interest in the fulfilment of the proposed project, it can remain in the list of proposed projects for up to one year.

## 2.4. AGREED COOMET PROJECT

Agreed COOMET Project Forms, Annex 2 (see page 134), is used when agreement has already been reached between a certain number of partners to undertake a specific collaborative project. It is only through the completion of this Form that COOMET Members will be advised of the agreement in question.

The Working Group set up for accomplishing the project shall be composed of the persons stated in the Form. The Coordinator of the Working Group

shall be responsible for keeping the relevant SC/TC informed of the progress of the project.

Once completed the Agreed COOMET Project Form should be sent by the Coordinator to the head of the relevant SC/TC and to the COOMET Secretariat for distribution among the Committee Members and also for inclusion of the project in the COOMET Working Programme and data base.

Should any modification, e.g. of the composition of the Working Group or the scope of the project, be decided later, a revised Agreed Project Form shall be circulated.

In case of realising projects concerning the carrying out of comparisons related with the implementation of the CIPM MRA, the information in Box 6 in the form of the Agreed Project shall contain the following data in addition: comparison type, supported CMC, piloting NMI of the comparison, registration in the KCDB (except for the pilot ones).

## 2.5. COOMET PROJECT PROGRESS/FINAL REPORT

This Form, Annex 3 (see page 136), is used by Coordinators for reporting the progress on Agreed COOMET Projects, once a year.

A Final Report must be prepared when a Project has been completed.

In this Report the results obtained should be presented and possible applications stated. It is desirable to indicate the advantages of undertaking the work collaboratively through COOMET. The Final Report is not deemed as a publication of the work.

Collaborators are encouraged to publish their work through usual channels, mentioning that it was undertaken within COOMET.

The Coordinator shall send the completed Final Report Form to the head of the relevant SC/TC and the COOMET Secretariat.

## 2.6. CANCELLATION OF COOMET PROJECTS

According to suggestions of the heads of SCs/TCs the COOMET Secretariat excludes the projects recognised as unpromising and obsolete from the Working Programme, however retaining the information about these projects.

# RULES OF PROCEDURE

## 3. ANNUAL REPORTS ON THE ACTIVITIES OF COOMET BODIES

1. A Coordinator of the WG dealing with the agreed COOMET projects sends annually the intermediate progress report on the project to the head of the relevant SC/TC by 15 January. The head of the SC/TC can address the Coordinator of the WG with a request to submit information on the progress with the project in a month time before the meeting of the SC/TC.
2. The head of the SC/TC prepares Annual Progress Report of the SC/TC and forwards it to the Chairperson of the relevant COOMET Structural Body 31 January.
3. Based on the reports of the SCs/TCs the Chairpersons of the COOMET Structural Bodies prepare reports on the activities of their COOMET bodies and forward them annually by 15 February to the COOMET Secretariat and represent them at the COOMET Committee meeting.
4. Annual reports of the Chairpersons of the COOMET Structural Bodies established to fulfil specific tasks within COOMET, should have the following Sections,
  - general characteristic of the cooperation in the corresponding field including information on specific activities and projects being carried out and on the participants involved in cooperation;
  - results of the last meetings of the COOMET Structural Bodies and subordinated SCs/TCs;
  - review of the projects completed and information on the use of the results obtained;
  - problems of cooperation with international and regional organisations in the corresponding field of cooperation;
  - activities for the implementation of international agreements (e.g., the Arrangement on Mutual Recognition of National Measurement Standards and Calibration and Measurement Certificates Issued by National Metrology Institutes, etc.);
  - information on the prospective place and date for the following meetings of the COOMET Structural Bodies and subordinated SCs/TCs;
  - proposals for the resolutions of the COOMET Committee meeting.The total volume of the report should not exceed three to five pages.
5. The COOMET Secretariat prepares Annual Report on COOMET activities based on the reports submitted by

the Structural Bodies, and distributes it to the Committee Members annually by 15 March.

## 4. COMMITTEE MEETINGS / CONVOCAATION AND PROCEDURE

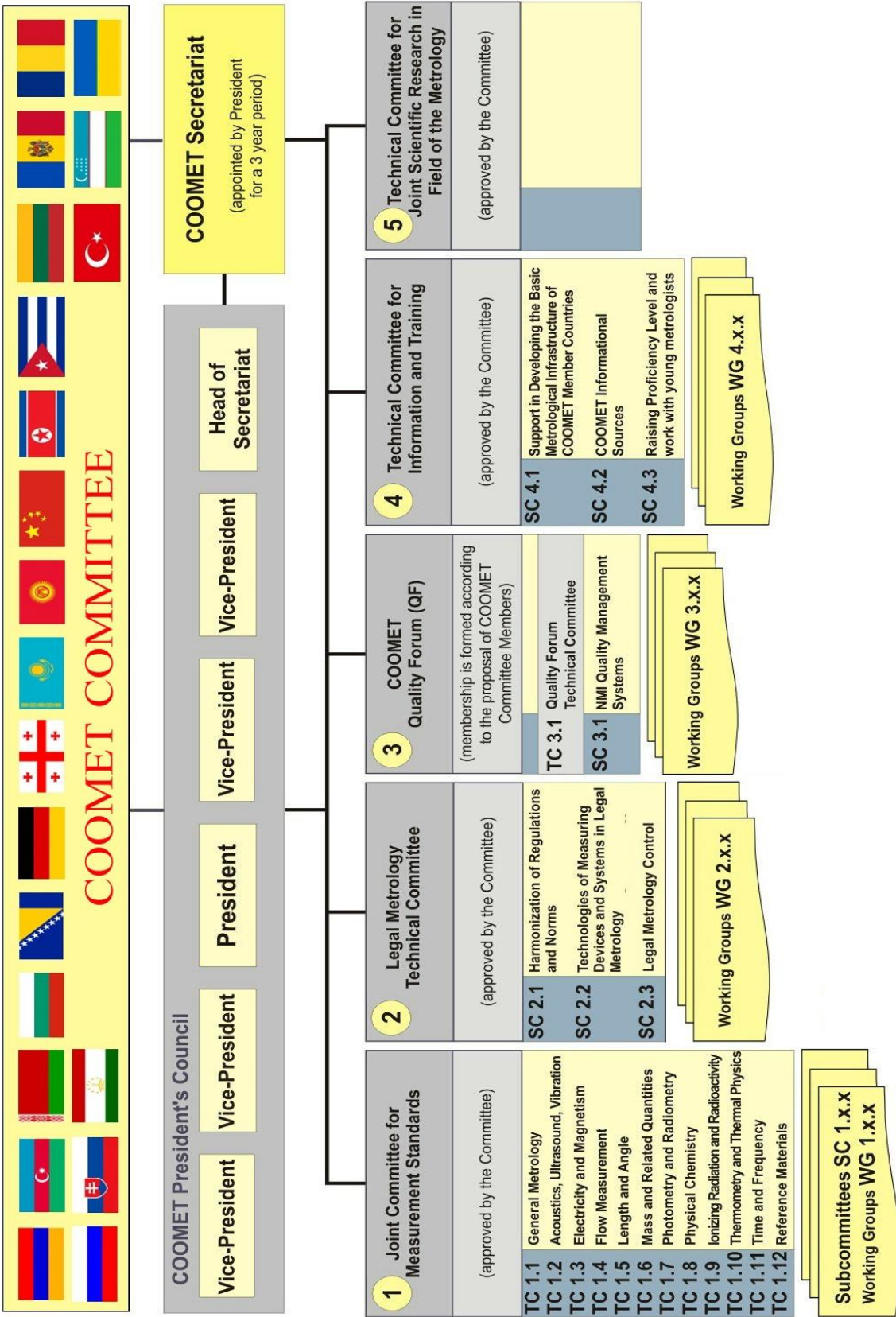
- 4.1. The President will decide on the place and date of the meeting, taking into consideration the proposals formulated by the Committee Members during their last meeting.
- 4.2. The President shall notify about the meeting at least ten weeks in advance and also send the preliminary draft agenda with the request to inform the President about their amendments and more precise definitions within a three week period.
- 4.3. The draft agenda is distributed among the delegates at least four weeks in advance of the meeting.
- 4.4. The agenda shall be approved by the Committee at the beginning of the meeting.
- 4.5. A quorum will be constituted by more than half of the Committee Members.
- 4.6. The Committee will attempt to reach conclusions by consensus, whenever possible. If a compromise cannot be reached, the different points of view shall be recorded in the minutes.
- 4.7. A draft report of the Committee meeting shall be circulated by the Secretariat to all Committee Members within 3 months of the meeting. In order to speed up the realisation of the resolutions adopted at the Committee meeting, it is recommended to the COOMET Secretariat to prepare and distribute to the Committee Members the list of drafts of such resolutions at the end of the meeting. The approval of the minutes of the corresponding Committee meeting is performed through e-mail during 1 month after they were received from the COOMET Secretariat.
- 4.8. Between the meetings the Committee can discuss any questions by correspondence involving all Committee Members as well as solve problems of cooperation at the President's Council, the meetings of which are convened by the President as required, but not less than once a year between the COOMET Committee meetings.
- 4.9. Similar rules may be followed by all structural and working bodies of COOMET.

## 5. AMENDMENT OF RULES OF PROCEDURE

These Rules of Procedure can be amended only by the consent of at least half of the Committee Members.



# COOMET STRUCTURE





## COOMET PRESIDENT



**Prof. Vladimir KRUTIKOV**

**All-Russian Scientific Research Institute of  
Optical and Physical Measurements (VNIIOFI)**

46 Ozernaya Str., 119361 Moscow, Russia

Telephone: +7 499 236 75 60

+7 495 437 56 33

Fax: +7 499 230 75 07

E-mail: [coomet@gost.ru](mailto:coomet@gost.ru)

## COOMET SECRETARIAT

**All-Russian Scientific Research Institute of Metrological Service  
(VNIIMS)**

46 Ozernaya Str., 119361, Moscow, Russian Federation



### HEAD OF SECRETARIAT

**Sergey KOMISSAROV**

Telephone: +7 495 781 90 81

Fax: +7 495 437 56 66

E-mail: [coomet@vniims.ru](mailto:coomet@vniims.ru)



### ASSISTANT

**Sergey ZHDANKIN**

Telephone: +7 495 781 90 81

Fax: +7 495 437 56 66

E-mail: [coomet@vniims.ru](mailto:coomet@vniims.ru)



## COOMET VICE-PRESIDENTS



**Dr. Valeriy GUREVICH**  
**Vice-President,**  
**responsible for cooperation**  
**in the field of technical regulation and standardization**

Telephone: +375 17 233 55 01  
Fax: +375 17 288 09 38  
E-mail: [coomet@belgim.by](mailto:coomet@belgim.by)



**Prof., Dr. Pavlo NEYEZHMAKOV**  
**Vice-President,**  
**responsible for cooperation with regional metrology organizations,**  
**Metrological infrastructure and knowledge transfer**

Telephone: +38057 700 34 22  
Fax: +38057 700 34 47  
E-mail: [pavel.neyezhnikov@metrology.kharkov.ua](mailto:pavel.neyezhnikov@metrology.kharkov.ua)

**Vice-President,**  
**responsible for cooperation in the field of Quality Management**  
**Systems**

Telephone:  
Fax:  
E-mail:



**Dr. Peter ULBIG**  
**Vice-President,**  
**responsible for cooperation in the field of Legal metrology and**  
**accreditation**

Telephone: + 49 531 592 8010  
Fax: + 49 531 592 8015  
E-mail: [Peter.Ulbig@ptb.de](mailto:Peter.Ulbig@ptb.de)

**Vice-President,**  
**responsible for Coordination of cooperation in the field of**  
**measurement standards**

Telephone:  
Fax:  
E-mail:

## COOMET COMMITTEE MEMBERS



**Azerbaijan AZ**

**Mr. Oktay ABBASOV**

**Chief State Metrology Service under the State Committee  
for Standardization,**

**Metrology and Patent of the Republic of Azerbaijan (AzSMS)**

124 Mardanov gardashlary str., AZ 1147, BAKU

metrology@azstand.gov.az

+994 12 449 99 59

+994 12 440 63 16



**Armenia AM**

**Mr. Kamo MOVSISYAN**

**Adviser to the Director**

**CJSC "National Institute of Metrology" (CJSC "NIM")**

49/4 Komitasi Ave., 051 YEREVAN

info@metrology.am

+374 10 23 26 00



**Belarus BY**

**Dr. Valeriy GUREVICH**

**Director**

**Belarussian State Institute of Metrology (BelGIM)**

93 Starovilensky Trakt, 220053 MINSK

coomet@belgim.by

+375 17 233 55 01

+375 17 288 09 38

**Bosnia and Herzegovina BA**

**Mr. Zijad DZEMIC**

**General Director**

**Institute of Metrology of Bosnia and Herzegovina (IMBIH)**

Augusta Brauna 2, 71000 SARAJEVO

zijad.dzemic@met.gov.ba

+387 (0) 33 568 902

+387 (0) 33 568 909



**Bulgaria BG**

**Mr. Paun ILCHEV**

**Acting President**

**Bulgarian Institute of Metrology (BIM)**

52 B, Blvd G.M.Dimitrov 1040 SOFIA

[p.ilchev@bim.government.bg](mailto:p.ilchev@bim.government.bg)

+359 2 873 52 77

+359 2 970 52 72



## COOMET COMMITTEE MEMBERS

**Germany DE**

**Dr. Peter ULBIG**

**Head of Division “Scientific-technical Cross-sectional Tasks”**

**Physikalisch-Technische Bundesanstalt (PTB)**

Bundesallee 100, 38116 BRAUNSCHWEIG

+49 531 592 8010

Peter.Ulbig@ptb.de

+49 531 592 8015

**DPR of Korea KP**

**Mr. Ju Kwang Chon**

**Director**

**Central Institute of Metrology**

Sonsin 1 Dong, Sadong District, PYONGYANG

+850 2 381 44 10

pdk0301@163.com

+850 2 381 44 80

**Georgia GE**

**Ms. Nino MIKANADZE**

**Director**

**Institute of Metrology GEOSTM**

67 Chargali Str., 0178 TBILISI

+995 32 261 77 57

nino\_mikanadze@yahoo.com

+995 32 261 35 00



**Cuba CU**

**Dr. Nancy FERNÁNDEZ RODRÍGUEZ**

**General Director Cuban National Bureau of Standards (NC)**

Calle E No. 261 entre 11 y 13 Vedado, LA HABANA 10400

+537 830 08 79

+537 30 00 22

nc@ncnorma.cu

+537 836 80 48



**Kazakhstan KZ**

**Mr. Toktabek TOKANOV**

**General Director**

**Kazakhstan Institute of Metrology (RSE “KazInMetr”)**

Center of Measurement Standards, Left bank of the River Ishim,

Orynbor Str., 11, 010000, ASTANA

+7172 24 09 15

kazinmetr@mail.ru

+7172 79 32 99

legal@kazinmetr.org



## COOMET COMMITTEE MEMBERS

### **Kyrgyzstan KG**

**Mr. Sultan AHMETOV**

**Director**

**Center for Standardization and Metrology under  
the Ministry of Economy of the Kyrgyz Republic (CSM)**

197 Panfilov Str., 720040 BISHKEK

+996 (312) 62 37 90

nism@nism.gov.kg

### **Lithuania LT**

**Mr. Gintaras VALUSIS**

**Director**

**Centre for physical sciences and technologies (FTMC)**

A. Goštauto 9, LT-01108VILNIUS

+370 5 264 9211

+370 5 264 9774

info@ftmc.lt



### **Moldova MD**

**Mr. Anatolie MELENCIUC**

**General Director**

**National Metrology Institute (PI NMI)**

28 E. Coca str., MD-2064 CHISINAU

office@metrologie.md

+373 22 903 101

Fax:

+373 22 903 111

### **Romania RO**

**Dr. Mirella BUZOIANU**

**Director**

**National Institute of Metrology**

11 Vitan-Barzesti Rd., 75669 BUCHAREST

mirella.buzoianu@inm.ro

+40 21 334 55 20



### **Russia RU**

**Prof. Vladimir KRUTIKOV**

**Director**

**All-Russian Scientific Research Institute of  
Optical and Physical Measurements (VNIIOFI)**

46 Ozernaya Str., 119361 MOSCOW

krutikov@vniiofi.ru

+7 495 437 56 33

## COOMET COMMITTEE MEMBERS



**Slovakia SK**

**Mr. Dusan BUTAS**

**Deputy Director**

**Slovak Institute of Metrology (SMU)**

Karlovská 63, 84255 BRATISLAVA

halaj@smu.gov.sk

+421 2 602 94 491

+421 2 654 29 592

**Tajikistan TJ**

**Mr. Qurboniyon Ibodullo Karim**

**Director**

**Agency on Standardization, Metrology, Certification and Trade Inspection under the Government of the Republic of Tajikistan (Tajikstandard)**

42/2 N. Karabaev Str., 734018, DUSHANBE

+992 37 233 68 69

info@standard.tj

+992 37 233 44 99

coomet-tj@mail.ru



**Turkey TR**

**Mr. Mustafa Cetintas**

**Director**

**TUBITAK UME**

TÜBİTAK Gebze Yerleşkesi

Baris Mah., Dr. Zeki Acar Cad. No. 1 41470 Gebze Kocaeli

+90 262 679 5000

ume@tubitak.gov.tr

+90 262 679 5001



**Ukraine UA**

**Prof., Dr. Pavel NEYEZHMAKOV**

**General Director**

**National Scientific Centre "Institute of Metrology" (NSC "IM")**

42 Mironositskaya Str., 61002 KHARKOV

+38 057 700 34 22

pavel.neyezhmakov@metrology.kharkov.ua

+38 057 700 34 23

**Uzbekistan UZ**

**Mr. Ravshan RAHMONOV**

**Director**

**National Standards Center of the Republic of Uzbekistan (NSC RUz)**

333"B" Farobiy Str., 100049, TASHKENT

+998-71 246 14 38

nscenter@standart.uz

# COOMET STRUCTURAL BODIES AND THEIR HEADS

Structural Body	Chairperson	Telephone, Fax, E-mail
<b>Joint Committee for Measurement Standards (JCMS)</b>	<b>Dr. Anna CHUNOVKINA</b> All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev (VNIIM) 19 Moscovsky Prospect 198005 SANKT-PETERSBURG RUSSIA	+7 812 251 83 07 +7 812 713 01 14 <a href="mailto:A.G.Chunovkina@vniim.ru">A.G.Chunovkina@vniim.ru</a>
<b>TC 1.1</b> <b>General Questions Concerning Measurements (General Metrology)</b>	<b>Dr. Anna CHUNOVKINA</b> All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev (VNIIM) 19 Moscovsky Prospect 198005 SANKT-PETERSBURG RUSSIA	+7 812 251 83 07 +7 812 713 01 14 <a href="mailto:A.G.Chunovkina@vniim.ru">A.G.Chunovkina@vniim.ru</a>
<b>TC 1.2</b> <b>Acoustics, Ultrasound, Vibration</b>	<b>Mrs. Valentina POZDEEVA</b> Belarussian State Institute of Metrology (BelGIM) 93 Starovilensky Trakt 220053 MINSK BELARUS	+375 17 288 07 35 +375 17 288 09 38 <a href="mailto:pozdeeva@belgim.by">pozdeeva@belgim.by</a> <a href="mailto:coomet@belgim.by">coomet@belgim.by</a>
<b>TC 1.3</b> <b>Electricity and Magnetism</b>	<b>Mrs. Tatyana KOLOMIETS</b> Belarussian State Institute of Metrology (BelGIM) 93 Starovilensky Trakt 220053 MINSK BELARUS	+375 17 233 24 24 +375 17 288 09 38 <a href="mailto:kolomiets@belgim.by">kolomiets@belgim.by</a> <a href="mailto:coomet@belgim.by">coomet@belgim.by</a>
<b>TC 1.4</b> <b>Flow Measurement</b>	<b>Mr. Viktor FAFURIN</b> All-Russian scientific research institute of flow measurement (VNIIR) 7a, 2 Azinskaya Str., 420088, KAZAN, RUSSIA	+7 843 272 70 53 +7 843 272 70 53 <a href="mailto:vniir@inbox.ru">vniir@inbox.ru</a>
<b>TC 1.5</b> <b>Length and Angle</b>	<b>Dr. Vladimir KUPKO</b> National Scientific Centre "Institute of Metrology" (NSC "IM") 42 Mironositskaya Str. 61002 KHARKOV UKRAINE	+38 057 704 98 54 +38 057 700 34 47 <a href="mailto:Volodymyr.kupko@metrology.kharkov.ua">Volodymyr.kupko@metrology.kharkov.ua</a>
<b>TC 1.6</b> <b>Mass and Related Quantities</b>	<b>Mrs. Iryna KOLOZINSKA</b> National Scientific Centre "Institute of Metrology" (NSC "IM") 42 Mironositskaya Str. 61002 KHARKOV UKRAINE	+38 057 704 97 22 +38 057 700 34 47 <a href="mailto:Irina.kolozinskaya@metrology.kharkov.ua">Irina.kolozinskaya@metrology.kharkov.ua</a>
<b>TC 1.7</b> <b>Photometry and Radiometry</b>	<b>Dr. Boris KHLEVNOY</b> All-Russian Scientific Research Institute of Optical and Physical Measurements (VNIIOFI) 46 Ozernaya Str. 119361 MOSCOW RUSSIA	+7 495 437 29 88 +7 495 437 29 92 <a href="mailto:khlevnoy-m4@vniiofi.ru">khlevnoy-m4@vniiofi.ru</a>
<b>TC 1.8</b> <b>Physical Chemistry</b>	<b>Prof. Dr. Leonid KONOPELKO</b> All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev (VNIIM) 19 Moscovsky Prospect 198005 SANKT-PETERSBURG RUSSIA	+7 812 315 11 45 +7 812 327 97 76 <a href="mailto:lkonop@b10.vniim.ru">lkonop@b10.vniim.ru</a>

# COOMET STRUCTURAL BODIES AND THEIR HEADS

Structural Body	Chairperson	Telephone, Fax, E-mail
TC 1.9 Ionising Radiation and Radioactivity	<b>Dr. Nikolay MOISEEV</b> All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev (VNIIM) 19 Moscovsky Prospect, 198005 SANKT-PETERSBURG, RUSSIA	+7 812 323-96-14 <a href="mailto:N.N.Moiseev@vniim.ru">N.N.Moiseev@vniim.ru</a>
TC 1.10 Thermometry and Thermal Physics	<b>Prof. Dr. Anatoly POKHODUN</b> All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev (VNIIM) 19 Moscovsky Prospect 198005 SANKT-PETERSBURG RUSSIA	+7 812 315 52 07 +7 812 713 01 14 <a href="mailto:A.I.Pokhodun@vniim.ru">A.I.Pokhodun@vniim.ru</a>
TC 1.11 Time and Frequency	<b>Prof. Dr. Vitaliy PALCHIKOV</b> All-Russian Scientific Research Institute of Physico- Technical Measurements (VNIIFTRI) 141570 MENDELEEVO, Moscow Region RUSSIA	+7 495 660 57 24 <a href="mailto:palchikov@vniiftri.ru">palchikov@vniiftri.ru</a>
TC 1.12 Reference Materials	<b>Dr. Sergey MEDVEDEVSKIKH</b> Urals Scientific Research Institute of Metrology (UNIIM) 4 Krasnoarmeiskaya Str. 620000 EKATERINBURG RUSSIA	+7 343 350 26 18 +7 343 350 20 39 <a href="mailto:uniim@uniim.ru">uniim@uniim.ru</a>
TC 2 Legal Metrology	<b>Dr. Peter ULBIG</b> Physikalisch-Technische Bundesanstalt (PTB) Bundesallee 100 38116 BRAUNSCHWEIG GERMANY	+49 531 592 8010 +49 531 592 8015 <a href="mailto:Peter.Ulbig@ptb.de">Peter.Ulbig@ptb.de</a>
Quality Forum (QF)	<b>Dr. Andreas ODIN</b> Physikalisch-Technische Bundesanstalt (PTB) Bundesallee 100 38116 BRAUNSCHWEIG GERMANY	+49-531-592-8213 +49-531-592-8335 <a href="mailto:andreas.odin@ptb.de">andreas.odin@ptb.de</a>
TC 3.1 Quality Forum Technical Committee	<b>Dr. Natalya MURAVSKAYA</b> All-Russian Scientific Research Institute of Optical and Physical Measurements (VNIIOFI) 46 Ozernaya Str. 119361 MOSCOW RUSSIA	+7 495 437 33 56 +7 495 437 31 47 <a href="mailto:muravskaya-d4@vniiofi.ru">muravskaya-d4@vniiofi.ru</a>
TC 4 Information and Training	<b>Prof., Dr. Pavlo NEYEZHMAKOV</b> National Scientific Centre "Institute of Metrology" (NSC "IM") 42 Mironositskaya Str. 61002 KHARKOV UKRAINE	+38 057 700 34 22 +38 057 700 34 47 <a href="mailto:pavel.neyezhnikov@metrology.kharkov.ua">pavel.neyezhnikov@metrology.kharkov.ua</a>
TC 5 Joint Scientific Research in Field of the Metrology		



# NATIONAL COOMET SECRETARIATS

Country & Code		Name, NMI	Telephone, E-mail
ARMENIA	AM	<b>Mrs. Tereza BABAYAN</b> CJSC "National Institute of Metrology" (CJSC "NIM")	+ (374 10) 23-26-00 + (374 94) 20-02-75 info@metrology.am coomet.armenia@mail.ru
AZERBAIJAN	AZ	<b>Mr. Azer BAGHIROV</b> State Metrology Service under the State Committee for Standardization, Metrology and Patent of the Republic of Azerbaijan (AzSMS)	+99 412 449 99 59 /127 metrology@azstand.gov.az
BELARUS	BY	<b>Ms. Nadezda LYAKHOVA</b> Belarussian State Institute of Metrology (BelGIM)	+375 17 334 75 40 coomet@belgim.by
BOSNIA and HERZEGOVINA	BA	<b>Mr. Haris MEMIC</b> Institute of Metrology of B&H	+387(0) 33 568 919 haris.memich@met.gov.ba
BULGARIA	BG	<b>Mrs. Iglia NIKOLOVA</b> Bulgarian Institute of Metrology (BIM)	+359 2 970 27 18 i.nikolova@bim.government.bg
		<b>Mrs. Elena DIMITROVA</b> State Agency for Metrological and Technical Surveillance (SAMTS)	+359 2 9396 719 elena.dimitrova@damtn.government.bg
CHINA	CN	<b>Mrs. Sophia LI</b> National Institute of Metrology (NIM)	+86(10)64524260 limw@nim.ac.cn
CUBA	CU	<b>Mr. Nelson Villalobos Hevia</b> National Research Institute on Metrology	+537 862 05 36 Villalobos@inimet.cu
DPR of KOREA	KP	<b>Mr. Li Man HO</b> <b>Mr. Jin Kyong MAN</b> State Administration for Quality Management (SAQM)	+850 2 18111 (ext. 3818989) +850 2 3814410 saqm@co.chesin.com pdk0301@163.com
GERMANY	DE	<b>Mrs. Annette KÖGLER</b> Physikalisch-Technische Bundesanstalt (PTB)	+49 531 592 8213 annette.koegler@ptb.de
		<b>Mrs. Katrin HOFFMANN</b> Physikalisch-Technische Bundesanstalt (PTB)	+49 531 592 8215 katrin.hoffmann@ptb.de
GEORGIA	GE	<b>Ms. Natalia Sidamonidze</b> Georgian National Agency for Standards and Metrology (GEOSTM)	+995 32 261 25 30 geostm@geostm.ge
KAZAKHSTAN	KZ	<b>Ms. Lubov GALITSYNA</b> <b>Mrs. Zhanar YELEUSSIZOVA</b> Kazakhstan Institute of Metrology (KazInMetr)	+7172 79 32 77 +7172 79 33 84 kazinmetr@mail.ru
KYRGYZSTAN	KG	<b>Mrs. Liliya DIKAMBAEVA</b> Center for Standardization and Metrology under the Ministry of Economy of the Kyrgyz Republic (CSM)	+996 312 62 57 34 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> metr_kg@mail.ru
LITHUANIA	LT	<b>Mrs. Irena LAZDAUSKAITE</b> Centre for physical sciences and technologies (FTMC)	+370 5 2499 182 Irena.lazdauskaite@ftmc.lt
MOLDOVA	MD	<b>Mr. Teodor BIRSA</b> Director of Legal Metrology, NMI	+373 22 903 104 coomet@metrologie.md
RUSSIA	RU	<b>Mr. Sergey KOMISSAROV</b> Russian Scientific Research Institute of Metrological Service (VNIIMS)	+7 495 781 90 81 komissarov@vniims.ru
SLOVAKIA	SK	<b>Mr. Roman FIRA</b> Slovak Institute of Metrology (SMU)	+421 2 602 94 232 fira@smu.gov.sk
TAJIKISTAN	TJ	<b>Mr. Saidtojiddin MAVLONOV</b> Agency on Standardization, Metrology, Certification and Trade Inspection under the Government of the Republic of Tajikistan (Tajikstandard)	+992 37 233 34 91 +992 44 600 82 32 <a href="mailto:saidtojiddin@mail.ru">saidtojiddin@mail.ru</a> <a href="mailto:coomet-tj@mail.ru">coomet-tj@mail.ru</a>



## NATIONAL COOMET SECRETARIATS

Country & Code		Name, NMI	Telephone, E-mail
<b>TURKEY</b>	<b>TR</b>	<b>Mr. Omer ALTAN</b> TUBITAK UME	+90 262 679 5000 доб. 2901 <a href="mailto:Omer.altan@tubitak.gov.tr">Omer.altan@tubitak.gov.tr</a>
<b>UKRAINE</b>	<b>UA</b>	<b>Mrs. Yuliya BUNYAYEVA</b> National Scientific Center "Institute of Metrology" (NSC "IM")	+38 057 704 98 31 coomet@metrology.kharkov.ua
<b>UZBEKISTAN</b>	<b>UZ</b>	<b>Mr. Saidoripov LAZIZBEK</b> State Enterprise "Center on Rendering the Metrology Services"	+998 71 150 26 05 +998 90 323 68 28 Otdel-05@mxkm.uz Saidoripov.lazizbek@mail.ru

# COOMET PROJECTS (Notes for the completion of COOMET Project Forms)

## PROPOSED COOMET PROJECT

### Box 1 Reference No.

It will be given by the COOMET Secretariat.

### Box 2 Subject Field

The subject field should be chosen from the list in item 2.2 of the Rules of Procedure.

### Box 3 Field of cooperation

The field of cooperation should conform to one of the following

- comparisons;
- research;
- advice and training;
- traceability and calibration.

### Box 4 Partners

Members of COOMET, who have already expressed their willingness to participate in the proposed cooperation, should be indicated by their initials. If specific institutions are involved, they should be indicated by full names together with the letters signifying their country (see ISO 3166-1981, code Alpha-2), e.g. BG, CS, DE, HU, PL, RO, SU, etc.

### Box 5 Subject

The specific subject of the proposed cooperation should be defined in not more than 60 characters (including spaces).

### Box 6 Description

Within the space provided a brief description of the proposed project should be given. Sufficient details should be provided for experts from other institutions so that they can assess their capabilities to join cooperation.

### Box 7 Additional remarks

This box provides an opportunity for adding any additional remarks relevant to the proposed collaborative project, e.g. previous cooperation, advantages of implementation, etc.

### Box 8 Proposer's name

The name, full postal address, fax numbers and e-mail of the person proposing the cooperation should be given.

### Box 10 Date

The Form should be dated the day of signature.

### Box 11 Proposed starting date

A proposed starting date should be given.





PROPOSED PROJECT COOMET		
1 Reference No.:		2 Subject Field:
3 Field of cooperation:		
4 Partners:		
5 Subject:		
6 Description:		
7 Additional remarks:		
8 Proposer's Name:		
Address:		
Telephone:	Fax:	E-mail:
9 Proposer's signature:	10 Date:	11 Proposed starting date:
12 Signature of the COOMET Committee Member:		
Name:		Signature:

# COOMET PROJECTS (Notes for the completion of COOMET Project Forms)

## AGREED COOMET PROJECT

Guidance on completion of **boxes 1, 2, 3 and 5, 6, 7** of the Agreed COOMET Project Form is the same as that on completion of the corresponding Boxes in the Proposed COOMET Project Form.

**Box 4** Working Group

Names of experts forming the Working Group and names (or initials) of their institutions, as well as letters signifying their countries should be given.

**Box 8** Coordinator’s name, address, etc.

The person nominated by the Working Group as its Coordinator should be indicated.

**Box 9** Date project agreed  
Ref. No. of proposal

Date on which an agreement was reached and the Reference No. of the Proposed COOMET Project should be given.

**Box 10** Starting date

The date it has been agreed to start the project.

**Box 11** Expected completion date

An expected completion date must be given. For permanent agreement (e.g. time service) “ON-GOING” should be entered.

**Box 13** Date

The Form should be dated the day of signature.

## FOR PROJECTS RELATED WITH COMPARISONS

**Box 6** Description

A short description of the comparison with compulsory indication of the type of comparison, calibration and measurement capabilities (CMC) supported by the comparisons, as well as the piloting NMI of the comparison and registration in the KCDB (except for the pilot ones) should be given in this box.





**AGREED PROJECT  
COOMET**

1 Reference No.:		2 Subject Field:	
3 Field of cooperation:			
4 Working Group:			
5 Subject:			
6 Description:			
7 Additional remarks:			
8 Coordinator's name:			
Address:			
Telephone:		Fax:	E-mail:
9 Date project agreed:	10 Starting date:		11 Expected completion date:
12 Coordinator's signature:			13 Date:

# COOMET PROJECTS (Notes for the completion of COOMET Project Forms)

## COOMET PROJECT PROGRESS/FINAL REPORT

### Boxes 1-5

The content of the corresponding Boxes in the Agreed COOMET Project Form should be reproduced.

### Box 6 Progress

A brief description of the progress up to date should be entered in the space provided.

### Box 7 Coordinator's name, address, etc.

As in the Agreed COOMET Project Form.

### Box 8 Completion date

If the progress of the project is being reported then an estimated completion date should be given.

If the project has now been completed then the actual date of completion should be given.

For permanent agreements "ON-GOING" should be entered.

### Box 10 Date

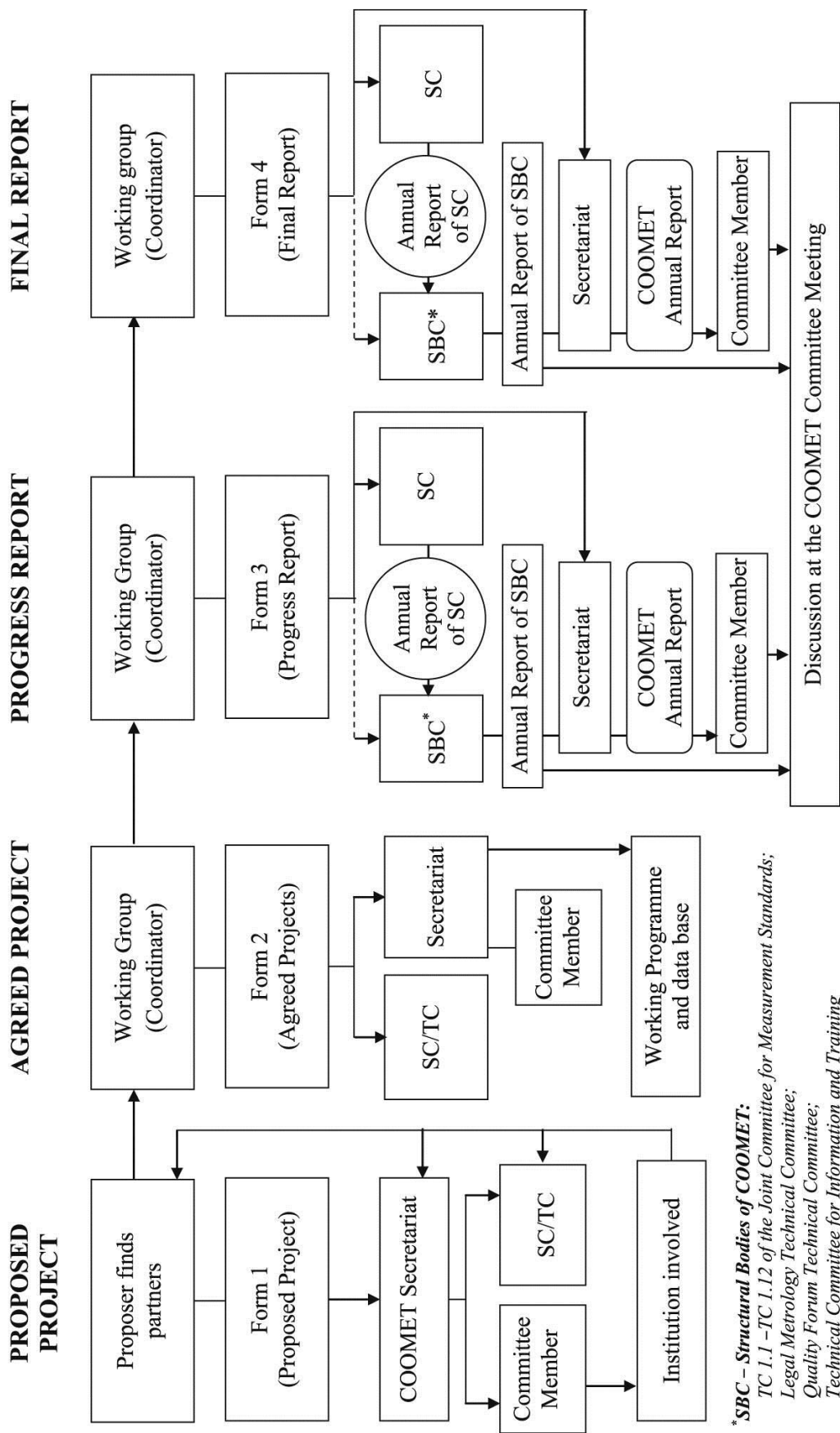
The Form should be dated the day of signature.





COOMET PROJECT PROGRESS/FINAL REPORT	
1 Reference No.:	2 Subject Field:
3 Field of cooperation:	
4 Working Group:	
5 Subject:	
6 Progress:	
7 Coordinator's name:	
Address:	
Telephone:	Fax: E-mail:
8 Completion date:	
9 Coordinator's signature:	10 Date:

# ORGANIZATIONAL SCHEME OF COOMET PROJECTS





# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ARMENIA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Kamo MOVSISYAN</b>	+374 95 00 69 79 movsisyan@metrology.am	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. Ararat Bagdasaryan</b>	+374 93 79 95 55 bagdasaryan@metrology.am	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Norik Yelchyan</b>	+374 91 43 04 69 yelchyan@metrology.am	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Karapet Sargsyan</b>	+374 95 00 69 73 sargsyan@metrology.am	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Eduard Rustamyan</b>	+374 95 00 69 89 rustamyan@metrology.am	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Eduard Rustamyan</b>	+374 95 00 69 89 rustamyan@metrology.am	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mr. Kamo Movsisyan</b>	+374 95 00 69 79 <a href="mailto:movsisyan@metrology.am">movsisyan@metrology.am</a>	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mr. Garik Martirosyan</b>	+374 93 27 95 99 martirosyan@metrology.am	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Gevorg Martoyan</b>	+374 95 39 60 80 martoyan@metrology.am	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Armen Mikoyan</b>	+374 94 20 57 24 <a href="mailto:info@metrology.am">info@metrology.am</a>	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>PhD Gevorg Martoyan</b>	+374 95 39 60 80 <a href="mailto:info@metrology.am">info@metrology.am</a> martoyan@metrology.am	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mr. Garik Martirosyan</b>	+374 93 27 95 99 martirosyan@metrology.am	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Kamo MOVSISYAN</b>	+374 95 00 69 79 movsisyan@metrology.am	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Dr. Haykush Batikyan</b>	+374 95 00 69 95 batikyan@metrology.am	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Dr. Haykush Batikyan</b>	+374 95 00 69 95 batikyan@metrology.am	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology				1

## ADDRESS OF ORGANISATION

- Ministry of Economy of the Republic of Armenia**  
**Closed Joint-Stock Company “National Institute of Metrology”**  
 49/4 Komitas Ave.  
 0051 Yerevan  
 Republic of Armenia  
 Telephone: +374 10 23 26 00  
 Fax: +374 10 23 54 78  
 E-mail: [info@metrology.am](mailto:info@metrology.am)  
 Website: [www.metrology.am](http://www.metrology.am)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## AZERBAIJAN

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Elchin Babayev</b>	+99412 449-99-59 /213	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. Arif Huseynov</b>	+99412 449-99-59 /161	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Maarif Zeynalov</b>	+99412 449-99-59 /146	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Emin Mammadov</b>	+99412 449-99-59 /162	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Elvin Hasanov</b>	+99412 449-99-59 /163	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mrs. Tamilla Shabieva</b>	+99412 449-99-59 /186	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Ms. Shahla Musayeva</b>	+99412 514-96-17 +99412 514-96-28	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mr. Nazim Sattarzadeh</b>	+99412 514-96-17 +99412 514 -96-28	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Elmar Shahverdiyev</b>	+99412 514-96-17 +99412 514 -96-28	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Ramiz Hasanov</b>	+99412 449-99-59 /127	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mr. Maarif Zeynalov</b>	+99412 449-99-59 /146	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mr. Nazim Sattarzadeh</b>	+99412 514-96-17, +99412 514 -96-28	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Oktay Abbasov</b>	+99412440-63-16 +99412 449-99-59 /255	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mr. Azer Gurbanov</b>	+99412 449-99-59 /127	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mr. Rafig Kafarli</b>	+99412 449-99-59 /189	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		—	—	—

## ADDRESS OF ORGANISATION

- State Metrology Service under the State Committee for Standardization, Metrology and Patent of the Republic of Azerbaijan**  
124 Mardanov gardashlary str.  
AZ 1147, Baku  
Republic of Azerbaijan  
Tel.: +99412 449-99-59  
Fax: +99412 440-63-16  
E-mail: metrology@azstand.gov.az  
Website: www.metrology.gov.az

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## BELARUS

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Maxim Shabanov</b>	+375 17 233 62 63 shabanov@belgim.by	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mrs. Valentina Pozdeeva</b>	+375 17 288 07 35 pozdeeva@belgim.by	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mrs. Tatiyana Kolomiets</b>	+375 17 233 24 24 kolomiets@belgim.by	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Aleksander Bardonov</b>	+375 17 233 03 92 bardonov@belgim.by	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Vladimir Makarevich</b>	+375 17 233 35 82 makarevich@belgim.by	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mrs. Natalya Kamkova</b>	+375 17 288 08 77 kamkova@belgim.by	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mrs. Olga Tarasova</b>	+375 17 334 98 20 optic@belgim.by	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mrs. Ekaterina Filistovich</b>	+375 17 334 98 20 filistovich@belgim.by	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Sergey Soroka</b>	+375 17 233 65 04 siarhei.saroka@belgim.by	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Petr Krivonos</b>	+375 17 335 04 68 krivonos@belgim.by	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mr. Alexander Galygo</b>	+375 17 233 62 73 galygo@belgim.by	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mrs. Ekaterina Filistovich</b>	+375 17 334 98 20 filistovich@belgim.by	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Prof. Nikolai Zhagora</b>	+375 17 233 55 01 coomet@belgim.by	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Irina Voytek</b>	+375 17 233 57 99 voitek@belgim.by	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mrs. Lidia Astafijeva</b>	+375 17 239 23 37 astafyeva@belgim.by	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		<b>Mr. Nikolai Bakovets</b>	+375 17 233 24 24 bakavets@belgim.by	1

## ADDRESS OF ORGANISATION

- Belarussian State Institute of Metrology (BelGIM)**  
93 Starovilensky Trakt  
220053 Minsk  
Republic of Belarus  
Telephone: +375 17 233 55 01  
Fax: +375 17 288 09 38  
E-mail: coomet@belgim.by  
info@belgim.by  
Website: [www.belgim.by](http://www.belgim.by)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## BOSNIA AND HERZEGOVINA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>			
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>			
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>			
<b>TC 1.4</b> Flow Measurement	<b>F</b>			
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Alen Bosnjakovic</b>	+387 33 568 931 <a href="mailto:alen.bosnjakovic@met.gov.ba">alen.bosnjakovic@met.gov.ba</a>	
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Azmir Alic</b>	+387 33 568 948 +387 33 568 909 <a href="mailto:azmir.alic@met.gov.ba">azmir.alic@met.gov.ba</a>	
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>			
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>			
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>			
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>			
<b>TC 1.11</b> Time and Frequency	<b>TF</b>			
<b>TC 1.12</b> Reference Materials	<b>RM</b>			
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Zijad Dzemic</b>	<a href="mailto:zijad.dzemic@met.gov.ba">zijad.dzemic@met.gov.ba</a>	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mr. Zijad Dzemic</b>	<a href="mailto:zijad.dzemic@met.gov.ba">zijad.dzemic@met.gov.ba</a>	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mr. Zijad Dzemic</b>	<a href="mailto:zijad.dzemic@met.gov.ba">zijad.dzemic@met.gov.ba</a>	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology				

## ADDRESS OF ORGANISATION

- Institute of Metrology of Bosnia and Herzegovina (IMBIH)**  
Augusta Brauna 2, 71000, Sarajevo  
**Telephone:** +387 (0) 33 568 902  
**Fax:** +387 (0) 33 568 909  
**E-mail:** [zijad.dzemic@met.gov.ba](mailto:zijad.dzemic@met.gov.ba)  
**Website:**

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## BULGARIA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Addresses
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Sasho Nedilalkov</b>	+359 885 747 443 s.nedilalkov@bim.government.bg	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. Marin Chushkov</b>	+359 2 974 08 96 <a href="mailto:m.chushkov@bim.government.bg">m.chushkov@bim.government.bg</a>	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mrs. Antoaneta Yovcheva</b>	+359 2 970 27 47 a.yovcheva@bim.government.bg	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mrs. Antonia Pandelova</b>	+359 2 970 27 79 <a href="mailto:a.pandelova@bim.government.bg">a.pandelova@bim.government.bg</a>	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Veselin Gavalyugov</b>	+359 2 970 27 60 <a href="mailto:v.gavalyugov@bim.government.bg">v.gavalyugov@bim.government.bg</a>	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Vladimir Dikov</b>	+359 2 970 27 49 v.dikov@bim.government.bg	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mr. Nikolay Aleksandrov</b>	+359 2 974 08 96 n.aleksandrov@bim.government.bg	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mrs. Rossitsa Chipanova</b>	+359 2 970 27 20 r.chipanova@bim.government.bg	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Rosen Ivanov</b>	+359 889 064 530 r.ivanov@bim.government.bg	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mrs. Snezhana Spasova</b>	+359 878 289 238 <a href="mailto:s.spasova@bim.government.bg">s.spasova@bim.government.bg</a>	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mrs. Natasha Tosheva</b>	+359 2 970 27 95 <a href="mailto:n.tosheva@bim.government.bg">n.tosheva@bim.government.bg</a>	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mrs. Lyudmila Dimitrova</b>	+359 2 970 27 20 l.dimitrova@bim.government.bg	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mrs. Hristina Sokolova</b>	+359 2 970 27 99 <a href="mailto:h.sokolova@bim.government.bg">h.sokolova@bim.government.bg</a>	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Svetlana Dimitrova</b>	+359 2 970 27 70 sv.dimitrova@bim.government.bg	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mrs. Svetla Mirkova-Grozdanova</b>	+359 2 970 27 37 s.mirkova@bim.government.bg	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		<b>Mr. Nikolay Aleksandrov</b>	+359 2 974 08 96 n.aleksandrov@bim.government.bg	1

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

- Bulgarian Institute of Metrology (BIM)**  
**Directorate General “National Centre of Metrology” (DG NCM)**  
**Directorate General “Measures and Measuring Instruments” (DG MMI)**  
**Directorate “Testing of Measuring Instruments, Devices and Equipment” (D TMIDE)**  
52-b, G. M. Dimitrov Blvd.  
1040 Sofia  
Bulgaria  
Telephone: +359 2 873 52 88  
+359 2 873 52 98  
+359 2 970 27 99  
Fax: +359 2 970 27 35  
+359 2 873 52 98  
+359 2 873 52 72  
E-mail: GD\_NCM@bim.government.bg  
[GD\\_MIU@bim.government.bg](mailto:GD_MIU@bim.government.bg)  
[disius@bim.government.bg](mailto:disius@bim.government.bg)  
Website: [www.bim.government.bg](http://www.bim.government.bg)



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## CUBA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Addresses
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Eduardo Perez Gonzalez</b>	+537 863 90 62 eduardo@inimet.cu	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	–	–	
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mrs. Mirta Navarro Gonzalez</b>	+537 862 30 41 mirta@inimet.cu	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mrs. Maritza Hernandez Apaceiro</b>	+537 862 30 41 maritzah@inimet.cu	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mrs. Alejandra Hernández Leonard</b>	+537 862 30 41 alehl@inimet.cu	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mrs. María de los Ángeles Alvarez Alvarez</b>	+537 862 30 41 maria.angeles@inimet.cu	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mrs. Sandra Pedro Valdés</b>	+537 862 30 41 <a href="mailto:sandra@inimet.cu">sandra@inimet.cu</a>	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mrs. Sandra Pedro Valdés</b>	+537 862 30 41 sandra@inimet.cu	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Dr. Pilar Oropesa Verdecia</b>	+537 682 95 24 poropesa@centis.edu.cu	2
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mrs. Mirtha Navarro Gonzalez</b>	+537 863 30 41 mirta@inimet.cu	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	–	–	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mrs. Sandra Pedro Valdés</b>	+537 862 30 41 sandra@inimet.cu	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Fernando Arruza Rodriguez</b>	+537 830 07 96 arruza@ncnorma.cu	3
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mr. Nelson Villalobos Hevia</b>	+537 862 05 36 villalobos@inimet.cu	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mr. Gustavo Torres Gonzalez</b>	+537 862 30 41 gustavot@inimet.cu	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		<b>Mr. Nelson Villalobos Hevia</b>	+537 862 05 36 villalobos@inimet.cu	1

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

- 1. National Research Institute on Metrology (INIMET)**  
Consulado No.206  
e/ Animas y Trocadero  
Centro Habana  
CP 10200 La Habana  
Republic of Cuba  
Telephone: +537 862 05 36  
Fax: +537 867 69 66  
E-mail: [coomet@inimet.cu](mailto:coomet@inimet.cu)  
Website: <http://www.inimet.cubaindustria.cu>
  
- 2. Center of Isotopes (CENTIS)**  
Ave. Monumental y Carretera La Rada, Km 3 1/2  
CP 3415 San José de las Lajas Mayabeque  
Republic of Cuba  
Telephone: +537 682 95 24  
Fax: +537 682 78 50  
E-mail: [poropesa@centis.edu.cu](mailto:poropesa@centis.edu.cu)  
Website: <http://www.centis.cu>
  
- 3. Cuban National Bureau of Standards (NC)**  
Calle E No 261 entre 11 y 13- Vedado  
10400 La Habana  
Republic of Cuba  
Telephone: +537 830 07 96  
Fax: +537 836 80 48  
E-mail: [nc@ncnorma.cu](mailto:nc@ncnorma.cu)  
Website: <http://www.nc.cubaindustria.cu>





# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## DPR OF KOREA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Dr. Chang Myong Il</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. Chong Tae Ho</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Jo Song Chol</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Dr. Choe Yong Chol</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Dr. Kim Jin Ju</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Dr. Pak Jin</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Dr. Choe Il</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Dr. Chong Yun Gyo</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Dr. Chang Myong Il</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Kim Dong Myong</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Dr. Hong Chol Ho</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mr. Chong Ryong Sok</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Li Song Han</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mr. Seung Myong Song</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mr. Jin Gyong Man</b>	+ 850 2 381 44 10 pdk0301@163.com	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

## ADDRESS OF ORGANISATION

- Central Institute of Metrology (CIM)**  
Sonsin-Dong No.1, Sadong District  
Pyongyang  
DPR of Korea  
Telephone: +850 2 381 86 49  
Fax: +850 2 381 44 80  
E-mail: pdk0301@163.com  
Website:

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## GEORGIA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Revaz Jvania</b>	+995 32 260 66 29 dep_mechanics@yahoo.com	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. Guram Tsiklauri</b>	+995 32 260 66 29 dep_mechanics@yahoo.com	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Archil Zedginidze</b>	+995 32 260 66 53 elmetrology@gmail.com	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Soso Rogava</b>	+995 32 260 66 29 dep_mechanics@yahoo.com	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Vazha Sikharulidze</b>	+995 32 261 30 21 vazhasikharulidze@yahoo.com	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Ms. Irma Rurua</b>	+995 32 260 66 29 irmarurua@yahoo.com	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Ms. Maia Zardiashvili</b>	+995 32 260 66 53 m.zardia@yahoo.com	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Ms. Izolda Garsevanishvili</b>	+995 32 261 30 90 i.garsevanishvili@gtu.ge	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Simon Sukhishvili</b>	+995 32 261 73 22 <a href="mailto:s.sukhishvili@gmail.com">s.sukhishvili@gmail.com</a>	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Yuri Chelidze</b>	+995 32 260 66 29 <a href="mailto:dep_mechanics@yahoo.com">dep_mechanics@yahoo.com</a>	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Ms. Maia Zardiashvili</b>	+995 32 261 73 22 m.zardia@yahoo.com	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mr. Tengiz Philishvili</b>	+995 32 261 53 39 temoexpert@yahoo.com	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Paata Metreveli</b>	+995 32 223 63 53 metrevelipaata@gmail.com	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Ms. Nino Mikanadze</b>	+995 32 261 77 57 nino_mikanadze@yahoo.com	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Ms. Nino Mikanadze</b>	+995 32 261 77 57 nino_mikanadze@yahoo.com	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

## ADDRESS OF ORGANISATION

### Georgian National Agency for Standards and Metrology (GEOSTM)

67 Chargali Str.

0178 Tbilisi

Georgia

Telephone: +995 32 261 35 00

Fax: +995 32 261 35 00

E-mail: [geostm@geostm.ge](mailto:geostm@geostm.ge)

Website: [www.geostm.ge](http://www.geostm.ge)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## GERMANY

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Prof. Dr. Manfred Kochsiek</b>	+49 531 592 8213 +49 531 592 69 8213 Manfred.Kochsiek@ptb.de	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Dr. Thomas Fedtke</b>	+49 531 592 1511 +49 531 592 69 1511 Thomas.Fedtke@ptb.de	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Dr. Johann Meisner</b>	+49 531 592 2320 +49 531 592 69 2320 <a href="mailto:Johann.Meisner@ptb.de">Johann.Meisner@ptb.de</a>	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Dr. Bodo Mickan</b>	+49 531 592 1331 +49 531 592 69 1331 <a href="mailto:Bodo.Mickan@ptb.de">Bodo.Mickan@ptb.de</a>	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Thomas Ahbe</b>	+49 531 592 5143 +49 531 592 5205 Thomas.Ahbe@ptb.de	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Dr. Wladimir Sabuga</b>	+49 531 592 3230 +49 531 592 69 3230 Wladimir.Sabuga@ptb.de	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Dr. Stefan Kück</b>	+49 531 592 4500 +49 531 592 4505 Stefan.Kueck@ptb.de	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Dr. Bernd Güttler</b>	+49 531 592 3100 +49 531 592 3015 Bernd.Guettler@ptb.de	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Dr. Ludwig Büermann</b>	+49 531 592 6250 +49 531 592 6205 <a href="mailto:Ludwig.Bueermann@ptb.de">Ludwig.Bueermann@ptb.de</a>	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Dr. Steffen Rudtsch</b>	+49 30 3481 7650 +49 30 3481 7504 Steffen.Rudtsch @ptb.de	2
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Dr. Andreas Bauch</b>	+49 531 592 4420 +49 531 592 4479 Andreas.Bauch@ptb.de	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Dr. Wolfram Bremser</b>	+49 30 8104 5802 +49 30 8104 5577 Wolfram.Bremser@bam.de	3
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Dr. Peter Ulbig</b>	+49 531 592 8010 +49 531 592 8015 Peter.Ulbig@ptb.de	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Dr. Andreas Odin</b>	+49 531 592 8330 +49 531 592 69 8330 Andreas.Odin@ptb.de	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mrs. Annette Kögler</b>	+49 531 592 8213 +49 531 592 8225 Annette.Koegler@ptb.de	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

1. **Physikalisch-Technische Bundesanstalt (PTB)**  
Bundesallee 100  
38116 Braunschweig  
Germany  
Fax: +49 531 592 9292  
Website: [www.ptb.de](http://www.ptb.de)
  
2. **Physikalisch-Technische Bundesanstalt (PTB) Berlin - Charlottenburg**  
Abbestrasse 2-12  
10587 Berlin  
Germany  
Fax: +49 30 348 7490  
Website: [www.ptb.de](http://www.ptb.de)
  
3. **Federal Institute for Material Research and Testing (BAM), Department 1**  
Richard-Willstätter-Straße 11  
12489 Berlin  
Germany  
Fax: +49 30 8112 029  
Website: [www.bam.de](http://www.bam.de)



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## KAZAKHSTAN

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1</b> Measurement Standards		<b>Mr. Marat Konkanov</b>	+7(7172) 27 09 48 <a href="mailto:marconzenti@bk.ru">marconzenti@bk.ru</a>	1
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mrs. Svetlana Tagayeva</b>	+7(7172) 27 09 24 <a href="mailto:legal_07@mail.ru">legal_07@mail.ru</a>	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	-	-	-
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mrs. Nagima Tuymekulova</b>	+7(7172) 27 09 49 <a href="mailto:nagimakaz@mail.ru">nagimakaz@mail.ru</a>	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Reshat Sabirgaliev</b>	+7(7112) 21 11 20 <a href="mailto:zkfinmetr@mail.ru">zkfinmetr@mail.ru</a>	3
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Dulat Moldybayev</b>	+7(7172) 27 09 57 <a href="mailto:dulat_83@mail.ru">dulat_83@mail.ru</a>	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Viktor Milokumov</b>	+7(7172) 27 09 60 <a href="mailto:V.s.mlk@mail.ru">V.s.mlk@mail.ru</a>	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mrs. Natalya Vyrodova</b>	+7 (7172) 27 09 54 <a href="mailto:Natalya_14@mail.ru">Natalya_14@mail.ru</a>	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mrs. Bibinur Janasbayeva</b>	+7(7172) 27 09 62 <a href="mailto:bibinur15@mail.ru">bibinur15@mail.ru</a>	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	-		-
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mrs. Kuralay Duysebaeva</b>	+7 (727) 303 9136 <a href="mailto:kuralay_12@mail.ru">kuralay_12@mail.ru</a>	2
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mr. Marat Konkanov</b>	+ 7 (7172) 27 09 48 <a href="mailto:marconzenti@bk.ru">marconzenti@bk.ru</a>	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mrs. Vera Donbaeva</b>	+7 (7172) 27 09 47 <a href="mailto:donbaeva@mail.ru">donbaeva@mail.ru</a>	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mrs. Lubov Galitsyna</b>	+7 (7172) 27 09 22 <a href="mailto:kazinmetr@mail.ru">kazinmetr@mail.ru</a>	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Aigerym Raissova</b>	+7(7172) 27 09 32 <a href="mailto:smk@kazinmetr.org">smk@kazinmetr.org</a>	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mrs. Karlygash Sattybayeva</b>	+7 (7172) 27 09 23 <a href="mailto:karlygash_sat@mail.ru">karlygash_sat@mail.ru</a>	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		<b>Mr. Nikita Veretelnikov</b>	+7(7172) 27 09 63 <a href="mailto:nikveretelnikov@mail.ru">nikveretelnikov@mail.ru</a>	

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANIZATIONS

- 1. Republic State Enterprise “Kazakhstan Institute of Metrology” (RSE “KazInMetr”)**  
Center of Measurement Standards  
Left bank of the river Ishim  
Orynbor Str., 11  
010000 Astana  
Republic of Kazakhstan  
Telephone: +7 (7172) 270999  
E-mail: [87020000667@mail.ru](mailto:87020000667@mail.ru)  
Website: <http://www.kazinmetr.kz>

### Subsidiaries:

- 1. South-Kazakhstan Subsidiary of Republic State Enterprise “Kazakhstan Institute of Metrology” (SKS RSE “KazInMetr”)**  
83 Altynsarina Str.  
050035 Almaty  
Republic of Kazakhstan  
Telephone: +7(727) 3039137  
Fax: +7(727) 3039137  
E-mail: [priemnaya\\_ukf@mail.ru](mailto:priemnaya_ukf@mail.ru)  
Website: <http://www.kazinmetr.kz>
- 2. Western-Kazakhstan Subsidiary of Republic State Enterprise “Kazakhstan Institute of Metrology” (WKS RSE “KazInMetr”)**  
59 3<sup>rd</sup> Zavokzalny Tupik Str.  
090003 Uralsk  
Republic of Kazakhstan  
Telephone: +7(7112) 21 56 35  
Fax: +7(7112) 21 56 35  
E-mail: [zkfinmetr@mail.ru](mailto:zkfinmetr@mail.ru)  
Website: <http://www.kazinmetr.kz>
- 3. Aktope-Kazakhstan Subsidiary of Republic State Enterprise “Kazakhstan Institute of Metrology” (AS RSE “KazInMetr”)**  
1-B Kiseleva Str.  
030000 Aktope  
Republic of Kazakhstan  
Telephone: +7132 54-98-67  
E-mail: [s.a.aytzhanova@mail.ru](mailto:s.a.aytzhanova@mail.ru), [afkazinmetr@mail.ru](mailto:afkazinmetr@mail.ru)  
Website: <http://www.kazinmetr.kz>

## CONTACT PERSONS OF COOMET MEMBER COUNTRIES

**4. Karagandy-Kazakhstan Subsidiary of Republic State Enterprise  
“Kazakhstan Institute of Metrology”**

**(KS RSE “KazInMetr”)**

22/2 Anzherskay Str.

100000 Karagandy

Republic of Kazakhstan

Telephone: +7212 44-22-63

E-mail: [kf\\_kazinmetr@mail.ru](mailto:kf_kazinmetr@mail.ru)

Website: <http://www.kazinmetr.kz>

**5. Eastern-Kazakhstan Subsidiary of Republic State Enterprise  
“Kazakhstan Institute of Metrology”**

**(EKS RSE “KazInMetr”)**

5 Kazakhstan Str.

070000 Ust-Kamenogorsk

Republic of Kazakhstan

Telephone: +7(7232) 26-47-74

E-mail: [vk\\_kazinmetr@land.ru](mailto:vk_kazinmetr@land.ru), [shairezina.a.a@mail.ru](mailto:shairezina.a.a@mail.ru)

Website: <http://www.kazinmetr.kz>



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## KYRGYZSTAN

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Talaibek Omurzakov</b>	+996 312 62 57 34 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	–	–	–
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Mukan Moldobaev</b>	+996 312 62 58 09 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mrs. Marina Denisova</b>	+996 312 66 22 80 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mrs. Galina Devyatova</b>	+996 312 66 26 20 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mrs. Ekaterina Kotova</b>	+996 312 66 26 20 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	–	–	–
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mrs. Tamara Savina</b>	+996 312 66 02 38 <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Igor Ershov</b>	+996 3133 2 11 78 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mrs. Marina Denisova</b>	+996 312 66 22 80 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mr. Nurlan Ysakov</b>	+996 312 62 58 09 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mrs. Liliya Dikambaeva</b>	+996 312 62 57 34 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Bakyt Shabdanov</b>	+996 312 62 05 35 (50 52) +996 312 62 57 15 bakyt2021@mail.ru	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Liliya Dikambaeva</b>	+996 312 62 57 34 <a href="mailto:metrolog@nism.gov.kg">metrolog@nism.gov.kg</a> <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a>	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mrs. Kyialzat Mambetalieva</b>	+996 312 62 57 34 <a href="mailto:metr_kg@mail.ru">metr_kg@mail.ru</a> kyialzat@mail.ru	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

## ADDRESS OF ORGANISATION

- Center for Standardization and Metrology under the Ministry of Economy of the Kyrgyz Republic (CSM)**  
197 Panfilov Str.  
720040 Bishkek  
Kyrgyz Republic  
Telephone: +996 312 62 68 70, +996 312 62 57 34  
Fax: +996 312 66 13 67  
E-mail: [metrolog@nism.gov.kg](mailto:metrolog@nism.gov.kg), [nism@nism.gov.kg](mailto:nism@nism.gov.kg), [metr\\_kg@mail.ru](mailto:metr_kg@mail.ru)  
Website: [www.nism.gov.kg](http://www.nism.gov.kg)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## LITHUANIA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>			
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mrs. Tatiana Zaploskene</b>	+370 5 230 6387 +370 5 230 6364 t.zapolskene@vmc.lt	2
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Andrius Bartasiunas</b>	+370 5 261 8065 +370 5 262 7123 <a href="mailto:arunas.bartasiunas@ftmc.lt">arunas.bartasiunas@ftmc.lt</a>	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Dr. Gediminas Zygmantas</b>	+370 3 740 1861 +370 3 735 1271 zygmanta@mail.lei.lt	3
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Dr. Lilija Chaleckiene</b>	+370 5 216 4196 <a href="mailto:l.chaleckiene@vmc.lt">l.chaleckiene@vmc.lt</a>	2
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mrs. Ilona Milkamanavičienė</b>	+370 5 216 5045 +370 5 230 6364 <a href="mailto:i.milkamanaviciene@vmc.lt">i.milkamanaviciene@vmc.lt</a>	2
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mrs. Ilona Milkamanavičienė</b>	+370 5 216 5045 +370 5 230 6364 i.milkamanaviciene@vmc.lt	2
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Dr. Evaldas Naujalis</b>	+370 5 261 2758 +370 5 262 7123 <a href="mailto:evaldas.naujalis@ftmc.lt">evaldas.naujalis@ftmc.lt</a>	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Dr. Arunas Gudelis</b>	+370 5 264 4855 +370 5 260 2317 <a href="mailto:Arunas.gudelis@ftmc.lt">Arunas.gudelis@ftmc.lt</a>	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mrs. Lilijana Gaidamoviciute</b>	+370 5 261 9402 +370 5 262 7123 <a href="mailto:lilijana.gaidamoviciute@ftmc.lt">lilijana.gaidamoviciute@ftmc.lt</a>	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Dr. Rimantas Miškinis</b>	+370 5 262 0194 +370 5 262 019 <a href="mailto:rimantas.miskinis@ftmc.lt">rimantas.miskinis@ftmc.lt</a>	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Dr. Evaldas Naujalis</b>	+370 5 261 2758 +370 5 262 7123 <a href="mailto:evaldas.naujalis@ftmc.lt">evaldas.naujalis@ftmc.lt</a>	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	–	–	–
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Irena Lazdauskaitė</b>	+370 5 249 9182 +370 5 262 7123 irena.lazdauskaite@ftmc.lt	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	–	–	–
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

- 1. State Scientific Research Institute Center for Physical Sciences and Technology (FTMC)**  
Savanoriu ave. 231  
LT-02300, Vilnius  
Lithuania  
Telephone: +370 5 266 1640, +370 5 266 1643,  
Fax: + 370 5 260 2317  
E-mail: [info@ftmc.lt](mailto:info@ftmc.lt)  
Website: <http://www.ftmc.lt>
- 2. Vilnius Metrology Centre (VMC)**  
S. Dariaus ir S. Girėno Str. 23  
LT – 02189 Vilnius  
Lithuania  
Telephone: +370 5 230 6276  
Fax: +370 5 230 6364  
E-mail: [vmc@vmc.lt](mailto:vmc@vmc.lt)  
Website: <http://www.vmc.lt>
- 3. Lithuanian Energy Institute (LEI)**  
Breslaujos Str. 3  
LT- 44403 Kaunas  
Lithuania  
Telephone: +370 37 401 863  
Fax: +370 37 351 271  
E-mail: [testlab@isag.lei.lt](mailto:testlab@isag.lei.lt)  
Website: <http://www.lei.lt>

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## MOLDOVA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Constantin Bordianu</b>	+373 22 903 103 <a href="mailto:ceapa@standard.md">ceapa@standard.md</a>	
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>			
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mrs. Stella Straistari</b>	+373 22 903 136 <a href="mailto:marimi_electrice@metrologi.md">marimi_electrice@metrologi.md</a>	
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Victor Grusca</b>	+373 22 903 143 <a href="mailto:debite@metrologie.md">debite@metrologie.md</a>	
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Alexander Mirza</b>	+373 22 903 119 <a href="mailto:lungimi@metrologie.md">lungimi@metrologie.md</a>	
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Alexei Pianih</b>	+373 22 903 139 <a href="mailto:mase@metrologie.md">mase@metrologie.md</a>	
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mr. Anatoli Bescupschii</b>	+373 22 903 141 <a href="mailto:Fizico_cimice@metrologie.md">Fizico_cimice@metrologie.md</a>	
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mr. Anatoli Bescupschii</b>	+373 22 903 141 <a href="mailto:Fizico_cimice@metrologie.md">Fizico_cimice@metrologie.md</a>	
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mrs. Rodica Sinita</b>	+373 22 238 446 <a href="mailto:ionizante@metrologie.md">ionizante@metrologie.md</a>	
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Constantin Bordianu</b>	+373 22 903 142 <a href="mailto:metrologie@metrologie.md">metrologie@metrologie.md</a>	
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mr. Andrei Gerlih</b>	+373 22 903 136 <a href="mailto:Marimi_electrice@metrologie.md">Marimi_electrice@metrologie.md</a>	
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mrs. Diana Bejenaru</b>	+373 22 903 131 <a href="mailto:incercari@metrologie.md">incercari@metrologie.md</a>	
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mrs. Marina Gavrilovici</b>	+373 22 234 037 <a href="mailto:Marina.gavrilovici@mec.gov.md">Marina.gavrilovici@mec.gov.md</a>	
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Alexandra Crudu</b>	+373 22 903 122 <a href="mailto:calitate@metrologie.md">calitate@metrologie.md</a>	
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mr. Constantin Bordianu</b>	+373 22 903 142 <a href="mailto:metrologie@metrologie.md">metrologie@metrologie.md</a>	
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

- 1. Ministry of Economy**  
1, Piata Marii Adunari Nationale  
MD-2033 Chişinău  
Republic of Moldova  
Telephone: +373 22 25 05 00  
+373 22 25 05 35  
Fax: +373 22 23 40 64  
E-mail: [mineconcom@mec.gov.md](mailto:mineconcom@mec.gov.md)  
Website: [www.mec.gov.md](http://www.mec.gov.md)
- 2. Public Institution National Metrology Institute**  
28 E. Coca str., MD 2064, CHISINAU  
tel.: +373 22 903 100  
fax: +373 22 903 111  
e-mail: [info@metrologie.md](mailto:info@metrologie.md)  
website: [www.metrologie.md](http://www.metrologie.md)
- 3. Agency for Consumer's Protection**  
78 Vasile. Alexandri str., MD-2012, CHISINAU  
tel: +373 22 501 980  
fax: +373 22 501 981  
e-mail: [consummator@apc.gov.md](mailto:consummator@apc.gov.md)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ROMANIA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Dr. A. Millea</b>	+40 21 6343520 office@inm.ro	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. A. Popescu</b>	+40 21 6344030 / 146 office@inm.ro	1
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. R. Soviany</b>	+40 21 6344030/177 office@inm.ro	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. A. Oncescu</b>	+40 21 6344030 / 173 office@inm.ro	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Dragos Boiciuc</b>	+40 21 6343520 office@inm.ro	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. V. Petrescu</b>	+40 21 6344030 / 146 office@inm.ro	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mr. M. Simionescu</b>	+40 21 6344030 / 141 simionescum@inm.ro	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mr. P. König-Georgescu</b>	+40 21 6344030 / 187 office@inm.ro	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. A. Druker</b>	+40 21 6344030 / 156 office@inm.ro	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Dr. I. Asavinei</b>	+40 21 6344030/123 office@inm.ro	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Dr. F. Cretu</b>	+40 21 6344030/120 office@inm.ro	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mr. C. Botgros</b>	+40 21 6344030/116 office@inm.ro	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Dumitru Dinu</b>	+40 21 6134563 office@brml.ro	2
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mr. Dragos Boiciuc</b>	+40 21 6343520 office@inm.ro	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	-	-	-
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		-	-	-

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

1. **National Institute of Metrology (INM)**  
11 Sos. Vitan Bârzesti  
75669 Bucharest  
Romania  
Telephone: +40 21 634 35 20  
+40 21 634 33 45  
Fax: +40 21 334 15 33  
E-mail: [office@inm.ro](mailto:office@inm.ro)
  
2. **Romanian Bureau of Legal Metrology (BRML)**  
11 Sos. Vitan Bârzesti  
75669 Bucharest  
Romania  
Telephone: +40 21 613 16 05  
+40 21 613 45 63  
Fax: +40 21 332 06 15  
E-mail: [office@brml.ro](mailto:office@brml.ro)



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## RUSSIA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Dr. Anna Chunovkina</b>	+7 812 251 83 07 +7 812 713 01 14 <a href="mailto:A.G.Chunovkina@vniim.ru">A.G.Chunovkina@vniim.ru</a>	2
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Dr. Alexander Enyakov</b>	+7 495 660 21 65 <a href="mailto:enyakov@vniiftri.ru">enyakov@vniiftri.ru</a>	4
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Dr. Sergey Kolotygin</b>	+7 495 744 81 30 +7 495 744 81 30 <a href="mailto:lab202@vniiftri.ru">lab202@vniiftri.ru</a>	4
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Dr. Victor Fafurin</b>	+7 843 272 70 62 <a href="mailto:vnir@inbox.ru">vnir@inbox.ru</a>	8
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Dr. Konstantin Chekirda</b>	+7 812 323 96 64 +7 812 323 96 64 <a href="mailto:k.v.chekirda@vniim.ru">k.v.chekirda@vniim.ru</a>	2
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Dr. Viktor Snegov</b>	+7 812 323 96 05 +7 812 323 96 28 <a href="mailto:v.s.snegov@vniim.ru">v.s.snegov@vniim.ru</a>	2
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Dr. Boris Khlevnoy</b>	+7 495 437 29 88 +7 495 437 29 92 <a href="mailto:khlevnoy-m4@vniiofi.ru">khlevnoy-m4@vniiofi.ru</a>	5
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Prof. Dr. Leonid Konopelko</b>	+7 812 315 11 45 +7 812 713 01 14 <a href="mailto:lkonop@b10.vniim.ru">lkonop@b10.vniim.ru</a>	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Dr. Nikolay Moiseev</b>	+7 812 323 96 14 +7 921 788 35 48 <a href="mailto:n.n.moiseev@vniim.ru">n.n.moiseev@vniim.ru</a>	2
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Prof. Anatoly Pokhodun</b>	+7 812 315 52 07 +7 812 713 01 14 <a href="mailto:A.I.Pokhodun@vniim.ru">A.I.Pokhodun@vniim.ru</a>	2
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Prof. Vitaly Palchikov</b>	+7 495 660 57 24 <a href="mailto:palchikov@vniiftri.ru">palchikov@vniiftri.ru</a>	4
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Dr. Sergey Medvedevskikh</b>	+7 343 3 50 26 18 +7 343 3 50 20 39 <a href="mailto:uniim@uniim.ru">uniim@uniim.ru</a>	6
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Dr. Yriy Androshuk</b>	+7 495 437 32 38 +7 495 437 56 66 <a href="mailto:androshuk@vniims.ru">androshuk@vniims.ru</a>	3
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Dr. Natalia Muravskaya</b>	+7 495 437 33 56 +7 495 437 31 47 <a href="mailto:muravskaya-d4@vniiofi.ru">muravskaya-d4@vniiofi.ru</a>	5
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mrs. Ekaterina Kozmina</b>	+7 495 781 44 31 <a href="mailto:ekaterina701@vniims.ru">ekaterina701@vniims.ru</a>	3
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		<b>Mr. Sergey Golubev</b>	+7 499 236 30 42 <a href="mailto:metrol@gost.ru">metrol@gost.ru</a>	1



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

1. **Federal Agency on Technical Regulating and Metrology (ROSSTANDART)**  
9, Leninsky Prospect  
119991, Moscow  
Russia  
Telephone: +7 499 236 03 00  
Fax: +7 499 236 62 31  
Website: <http://gost.ru>
  
2. **All-Russian Scientific Research Institute of Metrology  
named after D.I. Mendeleev (VNIIM)**  
19 Moscovsky Prospect  
190005 Sankt-Petersburg  
Russia  
Telephone: +7 812 251 76 01  
Fax: +7 812 713 01 14  
E-mail: [info@vniim.ru](mailto:info@vniim.ru)  
Website: [www.vniim.ru](http://www.vniim.ru)
  
3. **All-Russian Scientific Research Institute  
of Metrological Service (VNIIMS)**  
46 Ozernaya Str.  
119361 Moscow  
Russia  
Telephone: +7 495 437 55 77  
Fax: +7 495 437 56 66  
E-mail: [office@vniims.ru](mailto:office@vniims.ru)  
Website: [www.vniims.ru](http://www.vniims.ru)
  
4. **All-Russian Scientific Research Institute  
of Physico-Technical Measurements (VNIIFTRI)**  
141570 Mendeleevo  
Solnechnogorsky District, Moscow Region  
Russia  
Telephone: +7 495 744 81 12  
Fax: +7 495 944 52 68  
E-mail: [director@vniiftri.ru](mailto:director@vniiftri.ru)  
Website: [www.vniiftri.ru](http://www.vniiftri.ru)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

5. **All-Russian Scientific Research Institute of Optical and Physical Measurements (VNIIOFI)**  
46 Ozernaya Str.  
119361 Moscow  
Russia  
Telephone: +7 495 437 56 33  
Fax: +7 495 437 31 47  
E-mail: [vniofi@vniofi.ru](mailto:vniofi@vniofi.ru)  
Website: [www.vniofi.ru](http://www.vniofi.ru)
6. **Urals Scientific Research Institute of Metrology (UNIIM)**  
4 Krasnoarmeiskaya  
620000 Ekaterinburg  
Russia  
Telephone: +7 3433 50 26 18  
Fax: +7 3433 50 20 39  
E-mail: [uniim@uniim.ru](mailto:uniim@uniim.ru)  
Website: [www.uniim.ru](http://www.uniim.ru)
7. **Siberian State Research Metrology Institute of Labor Red Banner Order (SNIIM)**  
4, Dimitrov pr.  
630004, Novosibirsk  
Russia  
Telephone: +7 383 210 08 14  
Fax: +7 383 210 13 60  
E-mail: [director@sniim.nsk.ru](mailto:director@sniim.nsk.ru)  
Website: [www.sniim.nsk.ru](http://www.sniim.nsk.ru)
8. **All-Russian Scientific Research Institute of Flowrate Measurement (VNIIR)**  
7a, 2 Azinskaya Str.  
420088 Kazan  
Russia  
Telephone: +7 843 272 70 62  
Fax: +7 843 272 00 32  
E-mail: [office@vniir.ru](mailto:office@vniir.ru)  
Website: [www.vniir.org](http://www.vniir.org)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## SLOVAKIA

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Mr. Roman Fíra</b>	+421 2 602 94 232 fira@smu.gov.sk	<b>1</b>
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	-	-	-
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Juraj Dressler</b>	+421 2 602 94 243 dressler@smu.gov.sk	1
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Makovnik</b>	+421 2 602 94 337 makovnik@smu.gov.sk	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Roman Fíra</b>	+421 2 602 94 232 fira@smu.gov.sk	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Laurenc Snopko</b>	+421 2 602 94 218 <a href="mailto:snopko@smu.gov.sk">snopko@smu.gov.sk</a>	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mr. Marian Krempasky</b>	+421 2 602 94 432 <a href="mailto:krempasky@smu.gov.sk">krempasky@smu.gov.sk</a>	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mrs. Miroslava Val'kova</b>	+421 2 602 94 211 Valkova@smu.gov.sk	1
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Krivošík</b>	+421 2 602 94 208 <a href="mailto:krivosik@smu.gov.sk">krivosik@smu.gov.sk</a>	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Peter Pavlasek</b>	+421 2 602 94 447 pavlasek@smu.gov.sk	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mr. Juraj Sluciak</b>	+421 2 602 94 382 sluciak@smu.gov.sk	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mrs. Zuzana Ďurišová</b>	+421 2 602 94 191 durisova@smu.gov.sk	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Emanuel Godal</b>	+421 2 602 94 380 <a href="mailto:godal@smu.gov.sk">godal@smu.gov.sk</a>	1
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mr. Emanuel Godal</b>	+421 2 602 94 380 <a href="mailto:godal@smu.gov.sk">godal@smu.gov.sk</a>	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	-	-	-
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		-	-	-

## ADDRESS OF ORGANISATION

- Slovak Institute of Metrology (SMU)**  
63 Karloveská  
842 55 Bratislava  
Slovak Republic  
Telephone: +421 2 602 945 03  
Fax: +421 2 654 295 92  
E-mail: [kiska@smu.gov.sk](mailto:kiska@smu.gov.sk)  
Website: [www.smu.gov.sk](http://www.smu.gov.sk)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## TAJIKISTAN

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	-	-	-
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. Sayvali Sharipov</b>	+992 44 600-81-43 +992 91-955-16-22 coomet-tj@mail.ru	<b>1</b>
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Sayvali Sharipov</b>	+992 44 600-81-43 +992 91-955-16-22 coomet-tj@mail.ru	<b>1</b>
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Bakhtiyor Ashurov</b>	+992 44 600-81-29 +992 918-75-64-79 <a href="mailto:coomet-tj@mail.ru">coomet-tj@mail.ru</a>	<b>1</b>
<b>TC 1.5</b> Length and Angle	<b>L</b>	-	-	-
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Abduljalol Nasriddinov</b>	+992 44 600-81-31 +992 90-722-75-67 <a href="mailto:coomet-tj@mail.ru">coomet-tj@mail.ru</a>	<b>1</b>
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	-	-	-
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mr. Bakhtiyor Ashurov</b>	+992 44 600-81-29 +992 918-75-64-79 <a href="mailto:coomet-tj@mail.ru">coomet-tj@mail.ru</a>	<b>1</b>
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	-	-	-
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Bakhtiyor Ashurov</b>	+992 44 600-81-29 +992 918-75-64-79 <a href="mailto:coomet-tj@mail.ru">coomet-tj@mail.ru</a>	<b>1</b>
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mr. Sayvali Sharipov</b>	+992 44 600-81-43 +992 91-955-16-22 coomet-tj@mail.ru	<b>1</b>
<b>TC 1.12</b> Reference Materials	<b>RM</b>	-	-	-
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Tolib Shokirjonov</b>	+992 44 600-81-43 +992 93-503-69-23 <a href="mailto:tt-st@mail.ru">tt-st@mail.ru</a>	<b>1</b>
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mr. Tolib Shokirjonov</b>	+992 44 600-81-43 +992 93-503-69-23 <a href="mailto:tt-st@mail.ru">tt-st@mail.ru</a>	<b>1</b>
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Mr. Saidtojiddin Mavlonov</b>	+992 44 600 82 32 +992 37 233 34 91 +992 98 505 08 88 <a href="mailto:saidtojiddin@mail.ru">saidtojiddin@mail.ru</a>	<b>1</b>
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		-	-	-

## ADDRESS OF ORGANISATION

- Agency on Standardization, Metrology, Certification and Trade Inspection under the Government of the Republic of Tajikistan (Tajikstandard)**  
N. Karabaev street, 42/2  
734018, Dushanbe  
Tajikistan  
Telephone: +992 37 233 68 69  
Fax: +992 37 233 44 99  
E-mail: [info@standard.tj](mailto:info@standard.tj)  
Website: [www.standard.tj](http://www.standard.tj)

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## TURKEY

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	–	–	–
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Enver SADIKOĞLU</b>	<a href="mailto:enver.sadikoglu@tubitak.gov.tr">enver.sadikoglu@tubitak.gov.tr</a> +90 262 679 5000 ext. 2044 or 3101	–
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mehedin ARİFOVIÇ</b>	<a href="mailto:mehedin.arifovic@tubitak.gov.tr">mehedin.arifovic@tubitak.gov.tr</a> +90 262 679 5000 ext. 4200 or 4252	–
<b>TC 1.4</b> Flow Measurement	<b>F</b>	–	–	–
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Damla ŞENDOĞDU</b>	<a href="mailto:damla.sendogdu@tubitak.gov.tr">damla.sendogdu@tubitak.gov.tr</a> +90 262 679 5000 ext. 3505 or 3552	–
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Rıfat KANGİ</b>	<a href="mailto:rifat.kangi@tubitak.gov.tr">rifat.kangi@tubitak.gov.tr</a> +90 262 679 5000 ext. 5207 or 5253	–
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Dr. Özcan Bazkır</b>	+90 262 679 5000 доб. 3300 or 3351 <a href="mailto:ozcan.bazkir@tubitak.gov.tr">ozcan.bazkir@tubitak.gov.tr</a>	–
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	–	–	–
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	–	–	–
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	–	–	–
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Ramiz HAMİD</b>	<a href="mailto:ramiz.hamid@tubitak.gov.tr">ramiz.hamid@tubitak.gov.tr</a> +90 262 679 5000 ext. 3600 or 3650	–
<b>TC 1.12</b> Reference Materials	<b>RM</b>	–	–	–
<b>TC 2</b> Legal Metrology	<b>LM</b>	–	–	–
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	–	–	–
<b>TC 4</b> Information and Training	<b>IT</b> <b>TR</b>	–	–	–
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESS OF ORGANISATION

1. **The General Directorate for Metrology and Standardization (GDMS)**

**Address:** Ministry of Science, Industry and Technology  
Mustafa Kemal Mah., Dumlupınar Bulvarı  
2151. Cadde No. 154  
06510 Cankaya Ankara, Turkey  
**Telephone:** +90 312 231 7280  
**Fax:** +90 312 231 1694  
**E-mail:** mehmet.karaoglu@sanayi.gov.tr

2. **TÜBİTAK UME**

**Address:** TÜBİTAK Gebze Yerleskesi  
Baris Mah., Dr. Zeki Acar Cad. No. 1  
41470 Gebze Kocaeli, Turkey  
**Telephone:** +90 262 679 5000  
**Fax:** +90 262 679 5001  
**E-mail:** [ume@tubitak.gov.tr](mailto:ume@tubitak.gov.tr)  
**Website:** [www.ume.tubitak.gov.tr](http://www.ume.tubitak.gov.tr)



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## UKRAINE

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Prof. Alexander Prokopov</b>	+38 057 704 97 06 +38 057 700 34 23 alexander.prokopov@metrology.kharkov.ua	1
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mr. Alexander Kosterov</b>	+38 0322 39 93 23 +38 0662 23 85 25 <a href="mailto:kosterov@dndi-systema.lviv.ua">kosterov@dndi-systema.lviv.ua</a>	3
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Prof. Oleh Velychko</b>	+38 044 526 03 35 +38 044 526 42 60 Velychko@ukrcsm.kiev.ua	2
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Prof. Gennady Narodnitsky</b>	+38 057 704 97 78 +38 057 700 34 47 gennadiy.narodnitsky@metrology.kharkov.ua	1
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Dr. Vladimir Kupko</b>	+38 057 704 98 54 +38 057 700 34 47 volodymyr.kupko@metrology.kharkov.ua	1
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mrs. Irina Kolozinskaya</b>	+38 057 704 97 22 +38 057 700 34 47 irina.kolozinskaya@metrology.kharkov.ua	1
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mr. Mykola Huriev</b>	+38 057 704 97 72 +38 057 700 34 47 ngurev@yandex.ua	1
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Dr. Mikhail Rozhnov</b>	+38 044 526 52 98 +38 050 388 35 36 <a href="mailto:molar@ukrcsm.kiev.ua">molar@ukrcsm.kiev.ua</a>	2
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Mr. Vladimir Evseyev</b>	+38 057 704 98 93 +38 057 700 34 47 <a href="mailto:vladimir.evseev@metrology.kharkov.ua">vladimir.evseev@metrology.kharkov.ua</a>	1
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Dr. Rimma Sergienko</b>	+38 057 704 98 00 +38 057 700 34 47 Rymma.Sergiyenko@metrology.kharkov.ua	1
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Dr. Eduard Koretskiy</b>	+38 057 704 98 98 +38 057 700 34 47 eduard.koretsky@metrology.kharkov.ua	1
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Mr. Andrey Ivkov</b>	+38 057 704 97 45 <a href="mailto:Andriy.ivkov@metrology.kharkov.ua">Andriy.ivkov@metrology.kharkov.ua</a>	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Juriy Kuzmenko</b>	+38 044 526 53 69 +38 044 526 01 16 jkuzmenko@ukrcsm.kiev.ua	2
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Viktoriya Postnikova</b>	+38 057 704 98 49 +38 057 700 34 47 viktoriiya.postnikova@metrology.kharkov.ua	1
<b>TC 4</b> Information and Training	<b>IT TR</b>	<b>Prof., Dr. Pavel Neyezhmakov</b>	+38 057 700 34 22 +38 057 700 34 47 <a href="mailto:pavel.neyezhmakov@metrology.kharkov.ua">pavel.neyezhmakov@metrology.kharkov.ua</a>	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		<b>Dr. Vladimir Sklyarov</b>	+38 067 970 21 31 +38 057 700 34 47 vladimir.skliarov@metrology.kharkov.ua	1

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

1. **National Scientific Centre "Institute of Metrology" (NSC "IM")**  
42 Mironositskaya Str.  
61002 Kharkov  
Ukraine  
Telephone: +38 057 700 34 09  
Fax: +38 057 700 34 47  
E-mail: [info@metrology.kharkov.ua](mailto:info@metrology.kharkov.ua)  
Website: [www.metrology.kharkov.ua](http://www.metrology.kharkov.ua)
  
2. **State Enterprise "All-Ukrainian State Research and Production Centre of Standardization, Metrology, Certification and Consumer Protection" (SE "Ukrmetrteststandard")**  
4 Metrologichna Str.  
03680 Kyiv  
Ukraine  
Telephone: +38 044 526 52 29  
Fax: +38 044 526 42 60  
E-mail: [ukrcsm@ukrcsm.kiev.ua](mailto:ukrcsm@ukrcsm.kiev.ua)  
Website: [www.ukrcsm.kiev.ua](http://www.ukrcsm.kiev.ua)
  
3. **State Enterprise "Scientific-Research Institute for Metrology of Measurement and Control Systems" (DP NDI "Systema")**  
6 Kryvonis Str.  
79008 Lviv  
Ukraine  
Telephone: +38 032 272 89 39  
Fax: +38 032 235 84 49  
E-mail: [office@dndi-systema.lviv.ua](mailto:office@dndi-systema.lviv.ua)  
Website: [www.dndi-systema.lviv.ua](http://www.dndi-systema.lviv.ua)
  
4. **State Enterprise "Ivano- Frankivsk Research-and-Production Center for Standardization, Metrology and Certification" (SE "Ivano-Frankivskstandartmetrology")**  
127, Vovchynetska Str.  
76007 Ivano-Frankivsk  
Ukraine  
Telephone: +38 03422 6 68 84  
Fax: +38 03425 3 02 00  
E-mail: [dcsms@if.ukrtel.net](mailto:dcsms@if.ukrtel.net)  
Website: [www.ifdcsms.com.ua](http://www.ifdcsms.com.ua)



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## UZBEKISTAN

Structural Body & Subject Field		Contact Person	Telephone, E-mail	Address
<b>TC 1.1</b> General Metrology	<b>GM</b>	<b>Dr. Khikmat Makhmudov</b>	+998 71 246 70 06 khikmat1961@mail.ru	2
<b>TC 1.2</b> Acoustics, Ultrasound, Vibration	<b>AUV</b>	<b>Mrs. Lyubov Gazieva</b>	+998 71 150 26 05 <a href="mailto:Info@mxkm.uz">Info@mxkm.uz</a>	2
<b>TC 1.3</b> Electricity and Magnetism	<b>EM</b>	<b>Mr. Ravshan Mahmudov</b>	+998 71 150 26 07 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 1.4</b> Flow Measurement	<b>F</b>	<b>Mr. Bobur Usmanov</b>	+998 71 150 26 09 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 1.5</b> Length and Angle	<b>L</b>	<b>Mr. Alexandr Reys</b>	+998 71 150 26 06 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 1.6</b> Mass and Related Quantities	<b>M</b>	<b>Mr. Makhmud Khayrullaev</b>	+998 71 150 26 01 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 1.7</b> Photometry and Radiometry	<b>PR</b>	<b>Mr. Komolitdin Nazhmuddinov</b>	+998 71 150 26 09 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	5
<b>TC 1.8</b> Physical Chemistry	<b>QM</b>	<b>Mr. Bobir Abdurasulov</b>	+998 71 150 26 05 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 1.9</b> Ionising Radiation and Radioactivity	<b>RI</b>	<b>Dr. Khikmat Mahmudov</b>	+998 71 246 70 06 khikmat1961@mail.ru	2
<b>TC 1.10</b> Thermometry and Thermal Physics	<b>T</b>	<b>Mr. Dier Zahidov</b>	+998 71 150 26 09 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 1.11</b> Time and Frequency	<b>TF</b>	<b>Mrs. Lubov Gazieva</b>	+998 71 150 26 05 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 1.12</b> Reference Materials	<b>RM</b>	<b>Dr. Larisa Kim</b>	+998 71 253 80 83 <a href="mailto:metrologuz@mail.ru">metrologuz@mail.ru</a>	1
<b>TC 2</b> Legal Metrology	<b>LM</b>	<b>Mr. Nuriddin Raymzhonov</b>	+998 71 150 26 10 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 3.1</b> Quality Forum Technical Committee	<b>AQ</b>	<b>Mrs. Elena Ogay</b>	+998 71 150 26 10 <a href="mailto:info@mxkm.uz">info@mxkm.uz</a>	2
<b>TC 4</b> Information and Training	<b>IT</b> <b>TR</b>	<b>Mr. Zhavlon Kattahodzhaev</b>	+998 71 253 80 83 <a href="mailto:metrologuz@mail.ru">metrologuz@mail.ru</a>	1
<b>TC 5</b> Joint Scientific Research in Field of the Metrology		–	–	–

# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

- 1. Scientific-Research Institute for Standardization, Metrology and Certification (SRISMC)**  
9 "B", Chopon Ota Str.  
100059, Tashkent City  
Republic of Uzbekistan  
Telephone: 998 71 253 85 67  
Fax: 998 71 253 85 55  
E-mail: [info@smsiti.uz](mailto:info@smsiti.uz), [smsiti@mail.ru](mailto:smsiti@mail.ru), [metrologuz@mail.ru](mailto:metrologuz@mail.ru)  
Website: [www.smsiti.uz](http://www.smsiti.uz)
  
- 2. Center for Rendering of Metrological Services (CRMS)**  
333 "B", Farobiy Str.  
100049, Tashkent City  
Republic of Uzbekistan  
Telephone: 998-71 150 26 03  
Fax: 998 71 150 26 15  
E-mail: [metrolog@inbox.uz](mailto:metrolog@inbox.uz), [metrolog@mxkm.uz](mailto:metrolog@mxkm.uz)  
Website: [www.mxkm.uz](http://www.mxkm.uz)
  
- 3. The National Standards Center of the Republic of Uzbekistan (NSC RUz)**  
333 "B", Farobiy Str.  
100049, Tashkent City  
Republic of Uzbekistan  
Telephone: 998 71 246 70 06  
Fax: 998 71 246 70 06  
E-mail: [nscenter@standart.uz](mailto:nscenter@standart.uz)
  
- 4. Republic Center for Testing and Certification (RepCTC)**  
333 «A», Farobiy str., 100049, Tashkent City,  
Telephone: 998-71 150-63-53  
Fax: 998-71 150-63-54  
Email: [sertcenter@standart.uz](mailto:sertcenter@standart.uz), [sertcenter@rssm.uz](mailto:sertcenter@rssm.uz),  
Website: [www.rssm.uz](http://www.rssm.uz)



# CONTACT PERSONS OF COOMET MEMBER COUNTRIES

## ADDRESSES OF ORGANISATIONS

5. **The Uzbek Agency for Standardization, Metrology and Certification  
(Uzstandard Agency)**  
333 «A», Farobiy str., Olmazor district, 100049, Tashkent City, Republic of Uzbekistan  
Telephone: 998 71 227 49 43  
E-mail: [uzst@standart.uz](mailto:uzst@standart.uz)  
Website: [www.standart.uz](http://www.standart.uz)



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## ARMENIA

**Area:** 29.74 thousand km<sup>2</sup>

**Population:** 3.2 million

**Capital:** Yerevan

**Time zone:** UTC+4

**National currency:** dram

National Institute of Metrology under authority of the Ministry of Economic development and investments of the Republic of Armenia was established on the basis of the Closed Joint-Stock Company "Metrologist" according to the Law on Ensuring the Uniformity of Measurements of the Republic of Armenia (ՀՕ 83-Ն from 26 May, 2004).

At this time legal basis for fulfillment of Ensuring the Uniformity of Measurements is Law on "Ensuring the Uniformity of Measurements" of The Republic of Armenia (ՀՕ 22-Ն from 8 February, 2012 (amendments and corrigendum ՀՕ 42-Ն from 30 April, 2013 and ՀՕ 235-Ն from 17 December, 2014) which establishes legal, economic and organizational basis for ensuring the Uniformity of measurements. This Law is directed towards the protection of the rights and interests of the citizens and economy of the Republic of Armenia from invalid measurement results.

On the Basis of RA Law on Ensuring the Uniformity of Measurements adopted in 2012, "National Institute of Metrology" CJSC is recognized as a National Body for Metrology by Government Decision N 882-Ն from 4 July, 2012.

Activity of metrology services, development of metrological systems and state management is carried out by the Ministry of Economic development and Investments of the Republic of Armenia.

State Metrology Service is headed by National Body for metrology - "National Institute of Metrology" CJSC.

**State Metrology Service is headed by National Body for metrology - "National Institute of Metrology" CJSC.**

**Management:** Mr. Yerem Chakhoyan

**Address:** 49/4 Komitas Ave., 0051 Yerevan, Republic of Armenia

**Telephone:** +374 10 23 26 00

**E-mail:** info@metrology.am

**Web.** [www.metrology.am](http://www.metrology.am)

## Main activities of the National Institute of Metrology are as follows:

The development, improvement and maintenance of the national measurement standards of measurement units;

Calibration of national measurement standards with the measurement standards of the other countries national institutes of metrology,

Participation in international and regional organizations within its competence

Establishes a procedure for certification of reference materials and carries out their certification;

Carries out the examination of metrological characteristics of measuring instruments in use;

Performs calibrations to ensure traceability;

Carries out metrological attestation of measurement techniques in the field of legal metrology;

Approve the type of measuring instruments;

Maintain a register of approved type of measuring instruments and reference materials;

Participates in the work of the Accreditation of legal entities and individual entrepreneurs engaged in the calibration of measuring instruments;

Carries out verification of measuring instruments;

Organizes the training of specialists, training, retraining of personnel in the field of metrology, in verification, in the field of legal metrology, as well as retraining personnel of calibration and testing laboratories, training of accreditation experts and issues relevant certificates.

Carries out metrological examination of draft technical regulations which are adopted in accordance with the international treaties of the Republic of Armenia and ratified in accordance with the legislation of the Republic of Armenia.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## AZERBAIJAN

**Area:** 86 600 km<sup>2</sup>

**Population:** about 9.550 million for 16.03.2015

**Capital:** Baku

**Time zone:** UTC+4

**National currency:** manat

**State Metrology Service under the State Committee for Standardization, Metrology and Patent of the Republic of Azerbaijan is the national metrology body in this country.**

The State Committee for Standardization, Metrology and Patent of the Republic of Azerbaijan (Committee) established on the basis of the Decree of the President of the Republic of Azerbaijan No. 53 of 19 November, 2008, is the state body which carries out the state policy in the fields of standardization, metrology, certification, accreditation and protection of the industrial and intellectual proprietary rights.

**Chairman:** Mr. Hasanov Ramiz Ayvaz oghly  
**Address:** 124 Mardanov gardashlary str., AZ 1147 Baku, Republic of Azerbaijan  
**Telephone:** +99412 449 99 59  
**Fax:** +99412 440 52 24  
**E-mail:** [azs@azstand.gov.az](mailto:azs@azstand.gov.az);  
**Website:** [www.azstand.gov.az](http://www.azstand.gov.az)

The legislative base for the functioning of the state body in the field metrology is the Law of the Republic of Azerbaijan "On Provision of the Unanimity of Measurements", Regulations and Orders of the Cabinet of Ministries of the Republic of Azerbaijan, Statute of the Committee and State Metrology Service.

**The goals of the state body in the field metrology in Azerbaijan are as follows:**

- protection of the rights and legitimate interests of the citizens, the established law, order and economy of the Republic of Azerbaijan from negative consequences of doubtful measurement results;
- assistance to scientific and technical and economic progress on the basis of application of the state standards of units and use of measurement results of high and guaranteed accuracy expressed in the units admitted for application in the country;
- creation of favourable conditions for international and inter-regional relations;
- regulation of relations of the state bodies of the Republic of Azerbaijan with legal and physical persons in the field of development, manufacture, checking, test, operation, repair, sale, import and export of measuring instruments;
- creation of conditions for mutual recognition of results of tests, verifications and calibrations with a view of elimination of technical barriers in bilateral and multilateral external economic relations.



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

In the field of metrology, according to the legislation, the State Committee for Standardization, Metrology and Patents of the Republic of Azerbaijan is **assigned the following functions**:

- definition of the general metrological requirements to measuring instruments, measurement methods and results;
- development and carrying out of the state policy in the field of maintaining the uniformity of measurements;
- state metrological control and supervision;
- establishment of the rules of creation, approval, storage and application of measurement standards;
- approval of the state standards; carrying out of intergovernmental comparison of state measurement standards;
- establishment of the rules of certifications of measurement procedures;
- organisation of the elaboration and approval of national standards in the field of metrology;
- accreditation of testing centres;
- approval the list of measuring instruments subject to calibration and checking;
- organisation and coordination of activities of the state inspectors on maintenance of the uniformity of measurements;
- approval of the type of measuring instruments;
- maintenance of the state register of measuring instruments;
- organisation of the activity and accreditation of metrological services of legal and physical entities for the right of carrying out calibration work;
- approval of normative documents on measurement assurance;
- realisation of other functions stipulated by the legislation of the country and the Statute about the Committee.

In the field of metrology the Committee implements its authorities through Metrology department of Central Administration, State Metrology Service under the Committee, Metrology Control

Department of the State Control Service for Technical Regulation and Standardization under the Committee, Experimental-Testing Center (AzTEST) and relevant divisions in the regional of the country.

State Metrology Service under the Committee represents Azerbaijan as a member of COOMET.

**Chief:** Mr. Oktay Abbasov Abbas oghly  
**Address:** 124 Mardanov gardashlary str., AZ 1147 Baku, Republic of Azerbaijan  
**Telephone:** +99412 440 63 16  
+99412 449 99 59  
**Fax:** +99412 440 63 16  
**E-mail:** metrology@azstand.gov.az  
**Website:** www.metrology.gov.az

*The following structural divisions are included in the structure of the State Metrology Service:*

- division of the design and development of standards;
- division of legal metrology;
- division of the national standards of force and pressure;
- division of the national standards of density and viscosity;
- division of the national standards of temperature;
- division of the national standards of mass;
- division of the national standards of electric quantities;
- division of the national standards of frequency and time;
- division of the national dosimeter standards
- division of the standard samples of gaseous mixtures;
- financial-administrative division.

During 2014, about 539 240 measuring instruments have been verified by the employees of the State Metrological Service under the State Committee for Standardization, Metrology and Patent of the Republic of Azerbaijan.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## BELARUS

**Area:** 207.6 thousand km<sup>2</sup>

**Population:** 9,483 million

**Capital:** Minsk

**Time zone:** UTC+3

**National currency:** Belarusian ruble

The legal basis of the system for assuring the uniformity of measurements of the Republic of Belarus (SAUM) is the Law on Assuring the Uniformity of Measurements and the Directives of the Government of the Republic of Belarus and the State Committee for Standardization of the Republic of Belarus.

The state metrology service is headed by a national metrology body – **State Committee for Standardization of the Republic of Belarus (Gosstandart of Belarus)**.

**Chairperson:** Dr. Viktor Nazarenko  
**Address:** 93 Starovilensky Trakt, 220053  
Minsk, Republic of Belarus  
**Telephone:** +375 17 233 52 13  
**Fax:** +375 17 233 25 88  
**E-mail:** belst@gosstandart.gov.by

The major activities are as follows:

- maintenance of the common policy on the matters regarding measurement assurance, as well as coordination of the implementation and development of the SAUM of the Republic of Belarus;
- establishment and maintenance of the state metrological service;
- submitting of proposals for application of units of measurement in the Republic of Belarus to the Council of Ministers of the Republic of Belarus;
- development of legal and other directives aiming at assuring the uniformity of measurements; determination of priorities in metrology development;
- organisation of the development and approval of national standards and other normative documents regulating the implementation of the SAUM;
- organisation of the publication and dissemination of technical standards and scientific-technical information in the field of metrology including reference data;

- setting requirements for national measurement standards and measurement standard, as well as rules of their development, approval, maintenance and use;
- type approval of imported and domestically produced measuring instruments;
- organisation and performance of metrological surveillance;
- coordination of the cooperation in the field of metrology at the international level; representation of the Republic of Belarus in the international metrology organisations and collaboration with national metrology of other countries.

**Gosstandart coordinates the activity of the following:**

- Interindustry Commission of time and frequency and determination of the Earth rotation parameters,
- Interindustry Commission of reference substances and materials of composition and properties;
- Interindustry Commission of reference data of physical constants and properties of substances and materials.

Technical basis of the SAUM is represented by 53 national and primary measurement standards of the Republic of Belarus and about 3 500 reference measuring instruments.

The leading organisation in the field of developing and maintaining measurement standards is the National Metrology Institute – **Belarussian State Institute of Metrology (BelGIM)**.

**Director:** Dr. Valery Hurevich  
**Address:** 93 Starovilensky Trakt, 220053  
Minsk, Republic of Belarus  
**Telephone:** +375 17 233 55 01  
**Fax:** +375 17 288 09 38  
**E-mail:** info@belgim.by  
coomet@belgim.by



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## The major activities of BelGIM are as follows:

- development of scientific-methodological and procedural basis of the system for assuring the uniformity of measurements of the Republic of Belarus (SAUM);
- coordination and performance of fundamental and practical research;
- development, maintenance and comparison of national measurement standards with the international measurement standards or national measurement standards of other countries;
- recognition of national measurement standards by other countries;
- reproduction of measurement units and their dissemination to the measurement standards at the level of metrology services of enterprises and accredited laboratories;
- development of a uniform scientific-technical policy in the field of metrology and assurance of the uniformity of measurements;
- development of technical directives, national and interstate written standards, measurement procedures and methodological documents in the field of metrology;
- development of the criteria for classification of devices as measuring instruments;
- carrying out of state type approval tests, verification, calibration and metrological evaluation of measuring instruments and other metrology related work;

- maintenance of the state register of national measurement standards of the Republic of Belarus and the state register of approved measuring instruments;
- carrying out of metrological evaluation of measurement procedures and calibration of test equipment;
- participation in the cooperation projects in the field of metrology at regional and international levels as a National Metrology Institute (NMI);
- participation in training and improving the professional skills of personnel engaged in metrology.

The State Metrology Service includes **15 regional metrology bodies of Gosstandart**.

Besides collaboration within COOMET there are good relations in the field of metrology with the following organisations:

- International Organisation of Legal Metrology (OIML);
- International Bureau of Weights and Measures (BIPM);
- Interstate Council on Standardisation, Metrology and Certification (EASC);
- International Organisation of Standardization (ISO).





# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## BOSNIA AND HERZEGOVINA

**Area:** 51,197 thousand km<sup>2</sup>

**Population:** 3.840 million

**Capital:** Sarajevo

**Time zone:** UTC+1

**National currency:** BAM

**Institute of Metrology of Bosnia and Herzegovina (IMBIH)** – representing National Metrology Institute in Bosnia and Herzegovina, directly responsible to the Council of Ministers of Bosnia and Herzegovina.

IMBIH is responsible for the establishment of a comprehensive measuring system in Bosnia and Herzegovina with traceability to the International System of Units, SI.

Areas of IMBIH's work are:

- Scientific Metrology
- Legal Metrology
- Industrial Metrology

### 1) Institute of Metrology of Bosnia and Herzegovina (IMBIH)

**General Director:** Mr. Zijad Dzemic

**Address:** Augusta Brauna 2, 71000 Sarajevo

**Telephone:** +387 (0) 33 568 902

**Fax:** +387 (0) 33 568 909

**E-mail:** zijad.dzemic@met.gov.ba

### METROLOGY INFRASTRUCTURE IN BOSNIA AND HERZEGOVINA

- The Institute of Metrology of Bosnia and Herzegovina (IMBIH);
- Nominated Metrological Laboratories and Bodies (verification laboratories; control of prepacked products);
- The Entity Bureaus of Metrology: Bureau of Metrology of Federation of B&H and Republic Bureau of Standardization and Metrology of Republic of Srpska;
- Conformity Assessment Bodies for Measuring Instruments;
- Accredited Calibration laboratories.

### IMBIH's responsibilities regarding Scientific Metrology

- Realization and maintenance of national

measurement standards ensuring their traceability to the internationally recognized measurement standards – realization of SI base and derived units

- Establishment of distributed measurement system by appointing other legal entity for performing responsibilities of national measurement standard holder
- Membership in RMOs and active participation in their activities
- Promotion of metrology
- To support research and development in all areas of metrology

### IMBIH's responsibilities regarding Legal Metrology

- Issuance of bylaws in accordance with Law on Metrology
- Supervision of the implementation of Law on Metrology
- Nomination of laboratories dealing with verification
- Nomination of bodies for conformity assessment (MID and NAWI)
- Nomination of bodies for control of prepacked products
- Issuance and acceptance of Type approval

### IMBIH's Membership in International Organizations

**BIPM / CGPM** (*International Bureau of Weights and Measures / General Conference for Measures and Weights*) - Associate Member since 2011

**EMRP** (*European Metrology Research Programme*) - Member since 2013

**EURAMET** (*European Association of National Metrology Institutes*) - Member since 2009

**IAAO** (*International Association of National Metrology Institutes*) - Observer since 2010

**OIML** (*International Organization of Legal Metrology*) - Corresponding Member since March 1997

**WELMEC** (*European cooperation in legal metrology*) - Associate member since 2009

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## BULGARIA

**Area:** 111 thousand km<sup>2</sup>

**Population:** 7.365 million

**Capital:** Sofia

**Time zone:** UTC+2

**National currency:** lev

The first Law on Measures and Weights was adopted by the Bulgarian Parliament in 1888 and thus the Bulgarian metrological service was established.

At present **the Bulgarian Institute of Metrology (BIM)** is the institution responsible for the implementation of the governmental policy in the field of metrology. This institution carries out activities in the field of metrology for providing traceability, accuracy and reliability of measurements in Bulgaria. Its responsibilities are laid down in the new Law on Measurements in 2002 and its amendments of 2005, 2008, 2009 and 2011.

### **Bulgarian Institute of Metrology (BIM)**

**President:** Mr. Paun Ilchev  
**Address:** 52-B, Blvd G.M.Dimitrov 1040  
Sofia, Bulgaria  
**Telephone:** +359 2 873 52 77  
**Fax:** +359 2 873 52 72  
**E-mail:** [bim@bim.government.bg](mailto:bim@bim.government.bg)  
[p.ilchev@bim.government.bg](mailto:p.ilchev@bim.government.bg)

**The major objectives** of BIM are focused on promoting the government policy in the field of metrology and on providing traceability, accuracy and reliability of the measurements in Bulgaria. The main BIM activities are performed by the Directorate General “National Centre of Metrology”, Directorate General “Measures and Measuring Instruments” and Directorate “Testing of Measuring Instruments, Devices and Equipment”.

**The Directorate General “National Centre of Metrology” (DG NCM) realises the BIM policy in the field of fundamental metrology**

**General Director:** Mr. Sasho Nedialkov  
**Address:** 52-b G.M. Dimitrov Blvd., 1040  
Sofia, Bulgaria  
**Telephone:** +359 2 873 52 88  
**Fax:** +359 2 970 27 35  
**E-mail:** [s.nedialkov@bim.government.bg](mailto:s.nedialkov@bim.government.bg)

### **The major activities of DG NCM include:**

- developing long-term program on elaboration and improvement of the national measurement standards;
- development, maintenance and improvement of national measurement standards;
- providing traceability of national measurement standards to international standards or to the standards of the Signatories of the Metre Convention;
- taking measures on assuring traceability of measurements in case if there is no approved national measurement standards or this standard is out of service;
- organisation and participation in international comparisons in order to determine the level of equivalence of national standards;
- dissemination of units from the national measurement standards to the standards of lower level through calibration;
- coordinating the activities of measurement standards' keepers;
- keeping the register of approved national measurement standards;
- carrying out approval of software for processing measurement data;
- certification of reference materials and coordination of implementation of the long-term policy on developing and maintaining certified reference materials;
- keeping the register of certified reference materials and publishing this register in a special edition;
- carrying out the activities on creating the conditions for mutual recognition of measurement standards in the framework of the Agreement (MRA) initiated by CIPM;
- participation in the work of CIPM, EURAMET and COOMET technical committees.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

**The Directorate General “Measures and Measuring Instruments” (DG MMI) realises the BIM policy in the field of legal metrology**

**General Director: Mr. Valentin Starev**

**Address:** 52-b G.M. Dimitrov Blvd., 1040  
Sofia, Bulgaria

**Telephone:** +359 2 873 52 98

**Fax:** +359 2 873 52 98

**E-mail:** [v.starev@bim.government.bg](mailto:v.starev@bim.government.bg)

**The major activities** of DG MMI include:

- carrying out initial and subsequent verification of measuring instruments;
- carrying out metrological expertise of measuring instruments;
- carrying out conformity assessment of measuring instruments and non-automatic weighing instruments;
- participation in the work of OIML, WELMEC and COOMET technical committees;
- carrying out calibration of measuring instruments;
- carrying out initial and subsequent verifications of Stage II vapour recovery systems;
- authorisation of bodies for carrying out initial and subsequent verifications of Stage II vapour recovery systems.

The Directorate General “Measures and Measuring Instruments” includes **8 regional departments**.

**The Directorate “Testing of Measuring Instruments, Devices and Equipment” (D TMIDE) realises the BIM policy in the field of legal metrology**

**Acting Director: Mrs. Hristina Sokolova**

**Address:** 52B “G.M.Dimitrov” Blvd., 1040  
Sofia, Bulgaria

**Telephone:** +359 2 970 27 99

**Fax:** +359 2 873 52 72

**E-mail:** [ddisius@bim.government.bg](mailto:ddisius@bim.government.bg)

**The major activities** of D TMIDE include:

- carrying out type approval of legally controlled measuring instruments;
- keeping the register of approved types of measuring instruments;

- carrying out conformity assessment of measuring instruments and non-automatic weighing instruments;
- instruments;
- participation in the work of OIML, WELMEC and COOMET technical committees;
- carrying out calibration of measuring instruments;
- carrying out testing of types, versions and modifications of gambling equipment and gambling software of communication equipment;
- carrying out testing and preparing proposals for type approval of fiscal devices, including electronic cash devices with fiscal memory, fiscal printers, fiscal devices built in vending machines, electronic systems with fiscal memory for liquid fuels sales, local networks of fiscal devices, integrated automated business systems and fiscal devices built-in automats for currency exchange;
- keeping the public register of the approved types of fiscal devices, electronic systems with fiscal memory, local networks of fiscal devices and integrated automated business systems;
- carrying out testing of products for electromagnetic compatibility and environmental impact.

The Directorate “Testing of Measuring Instruments, Devices and Equipment” includes **Conformity Assessment of Measuring Instruments Department, Testing of Measuring Instruments Department, Electromagnetic Compatibility and Environmental Impact Department, Gambling Machines and Fiscal Devices Department**.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

Gulf of Mexico



Caribbean Sea

## CUBA

**Area:** 110,86 thousand km<sup>2</sup>

**Population:** 11.1 million

**Capital:** Havana

**Time zone:** UTC-5

**National currency:** cuban peso

**The National Research Institute on Metrology (INIMET)** of Cuban National Bureau of Standards as NMI, is the institution responsible for measurement standards and scientific metrology. It is in charge of the following main activities:

- to implement, improve, maintain and compare, at the international level, the Cuban national measurement standards and transfer their values to secondary standards;
- to carry out research and scientific-technical development in the field of metrology;
- to calibrate working standards and instruments of secondary laboratories;
- to carry out pattern evaluation of measurement instruments;
- to participate in the elaboration of standards and technical regulations for verification and calibration of measuring instruments;
- to educate and train specialists for legal metrology and industrial calibration laboratories.

See note 1 for quality system.

The **Centro de Isótopos** (CENTIS) is the designated laboratory in the field of Radioactivity. CENTIS belongs to the Agency of Nuclear Energy and Advanced Technologies of the Ministry for Science, Technology and Environment (CITMA). The main objective of this center is the production and R&D of radiopharmaceuticals, RIA kits and radioactive labelled compounds for the Cuban Health System as well as to perform specialized technical services and application of Nuclear Techniques to solve economical national problems, including those related to metrology of ionizing radiation. The Department of Radionuclides Metrology of the Centro de Isótopos, the CENTIS-DMR, is responsible for the establishment, developing, conservation, custody and diffusion of National Standards of Radionuclide Activity units (Becquerel). CENTIS-DMR is the scientific and methodological warrantor for achieving the traceability to these standards of the radioactivity measurements performed at national level.

See note 1 for quality system.

**Director:** Mr. Nelson Villalobos Hevia  
**Address:** Consulado No.206, e/ Animas y Trocadero, Centro Habana  
La Habana, CP 10200,  
Republic of Cuba  
**Telephone:** +537 862 05 36  
+537 863 90 62  
**Fax:** +537 867 69 66  
**E-mail:** [villalobos@inimet.cu](mailto:villalobos@inimet.cu)

**Director:** Dr. Jorge C. Cruz Arencibia  
**Address:** Ave. Monumental y Carretera La Rada, Km 31/2  
San Jose de las Lajas, Mayabeque  
**Telephone:** +537 682 95 24  
**Fax:** +537 866 98 21  
**E-mail:** [jcruz@centis.edu.cu](mailto:jcruz@centis.edu.cu)

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

**The Centro de Protección e Higiene de las Radiaciones (CPHR)** is a designated laboratory mainly responsible for the dosimetry standards in the field of ionizing radiation. The Dosimetry Laboratory of the CPHR performs the following obligations:

- to maintain traceability in Cuba to the international measurement system through implementing and improving national standards and calibrating measuring instruments;
- to participate in comparison exercises of the standards at international level;
- to carry out research and scientific-technical development in the field of ionizing radiation metrology;
- to provide education to specialists and users in the field of radiation measurements.

See note 1 for quality system.

**Director:** MSc. Gladys Mercedes López Bejerano  
**Address:** Carretera Cantera La Victoria II, km 2 ½, e/Monumental y Final, Municipio Guanabacoa. La Habana Republic of Cuba  
**Telephone:** +537 7 682-7271, 7 682-0514 (Internacional)  
+537 7 682-9571, 7 682-4891,  
+537 7 682-4892  
**Fax:** +537 682-9573  
**Email:** gladys@cphr.edu.cu

*Note 1:*

*INIMET, CENTIS and CPHR have established a quality system in correspondence with the ISO/IEC 17025 and the Mutual Recognition Arrangement for national measurement standards and for calibration and measurement certificates issued by National Metrology Institutes. In 2008, this system was accredited by the National Accreditation Body (ONARC) of the Republic of Cuba and recognized by the Regional Metrology Organization COOMET, in accordance with the above-mentioned international standard.*

**The institutions responsible for Legal Metrology are:**

## **a) Cuban National Bureau of Standards (NC)**

that is responsible for the development of metrology and legal metrology and performs the functions of the central steering body of state administration in the field of metrology.

The main tasks and activities of the NC in the field

of metrology are:

- elaboration and realisation of state policy in metrology;
- preparation of laws and decrees referring to metrology;
- steering of metrology in the state in the scope given by the Law on Metrology, including subordinate metrological institutions and Legal Metrology Service;
- methodical activity and supervision of activities in metrology;
- representation of the Republic of Cuba in the international metrological associations.

**General Director: Dr. Nancy Fernández Rodríguez**

**Director of Metrology: Mr. Fernando Arruza Rodríguez**

**Address:** Calle E No 261 entre 11 y 13- Vedado  
La Habana 10400, Republic of Cuba  
**Telephone:** +537 682 95 24  
**Fax:** +537 682 78 50  
**E-mail:** [nc@ncnorma.cu](mailto:nc@ncnorma.cu),  
[arruza@ncnorma.cu](mailto:arruza@ncnorma.cu)

**b) Territorial Centres of Metrology (TCM)** which are subordinate institutions of NC. These institutions are charged with the following main activities:

- to verify the legal measurement instruments;
- to calibrate the working standards of measurement units (for industry);
- to calibrate the ordinary measuring instruments for customers;
- to carry out the pattern evaluation of measuring instruments.

TCM laboratories were accredited by ONARC according to ISO IEC 17025 standard.

**c) The other institutions in the field of legal metrology are Metrological Laboratories (Industry).** These institutions (established in factories or other organisation) are calibration laboratories. NC authorises some of them for verification of the specified kinds of legal measuring instruments, if necessary.

The calibration of ordinary measuring instruments is performed by more than 170 calibration laboratories, established in the framework of industry or other organisations.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## DPR OF KOREA

**Area:** 109.89 thousand km<sup>2</sup>

**Population:** 22.6 million

**Capital:** Pyongyang

**Time zone:** UTC+9

**National currency:** von

The legal foundation of metrology in DPR Korea is the Law of DPR Korea on Metrology adopted in 1993.

The institution responsible for standards, scientific metrology and calibration service is **Central Institute of Metrology (CIM)**.

Its main tasks are:

- maintenance and management of national standards for the measurement units of physical quantities;
- fundamental research in the field of metrology;
- development of national standards and reference measuring instruments;
- calibration and international comparison of various kinds of reference measuring instruments;
- pattern approval of measuring instruments;
- research for the establishment of law and regulations on metrology;
- train of the experts and dissemination of scientific and technical knowledge on metrology;
- international exchange in the field of metrology.

**Director:** Mr. Jang Myong Il

**Address:** Sonsin-Dong No.1, Sadong District, Pyongyang, DPR of Korea

**Telephone:** +850 2 381 86 49

**Fax:** +850 2 381 44 80

**E-mail:** [pdk0301@163.com](mailto:pdk0301@163.com)

Institution responsible for legal metrology is **State Administration for Quality Management (SAQM)** responsible for the metrological works in the country.

It is charged with the following main activities:

- to elaborate and realize the state policy in metrology;

- to define and register the measurement standards for the unification of measurement units and maintenance of their accuracy;
- to approve the measuring means;
- to accredit the self-calibration institution;
- to organize and carry out the inspection and supervision in the field of metrology;
- to elaborate the law, regulations and rules on metrology;
- to approve the guidelines to the calibration and pattern evaluation.

**Management:** Mr. Pak Song Guk,  
Acting President  
Dr. Jo Hui Kon, Director,  
Department of Metrology

**Address:** Inhung-Dong No.1, Moranbong District, Pyongyang, DPR Korea

**Telephone:** + 850 2 18111 (ext. 381 8989)

**Fax:** + 850 2 381 44 10

**E-mail:** [saqm@co.chesin.com](mailto:saqm@co.chesin.com)

**Territorial Institutions of Calibration** are the subordinate of SAQM. These institutions are charged with the following main activities:

- to maintain the working standards and reference instruments;
- to calibrate the ordinary measuring instruments belonging to the category of state calibration within the territory;
- to carry out the supervision and control on metrology;
- to give technical and administrative guidance to the self-calibration institutions within the territory.



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## GEORGIA

**Area:** 69,7 thousand km<sup>2</sup>

**Population:** 4.6 million

**Capital:** Tbilisi

**Time zone:** UTC+4

**National currency:** lari (GEL)

**Georgian Metrology Institute** is a structural unit of Legal Entity of Public Law – **Georgian National Agency for Standards and Metrology (GEOSTM)**, which is in the system of the Georgian Ministry of Economy and Sustainable Development. Legal basis for providing uniformity of measurement in the country is Product Safety and Free Movement Code, which includes laws “About Provision Uniformity of Measurements”, and also other laws related to Quality Infrastructure.

Objectives, functions, rights and obligations of the agency are represented by:

- Participation in creation and development of measurement standards base for verification, calibration, examination and type approval works of measuring equipment (including imported ones) in accordance with the legislation in force;
- Participation in forming and conducting state policy in the field of standardization and metrology and coordination of activities in these fields;
- Participation in forming of metrological system in accordance with the legislation in force;
- Participation in developing normative base for improving fields of uniformity of measurement;
- Organization and conduction of works on reproducing measurement units by means of measurement standards for providing uniformity of

measurements on the whole territory of the country;

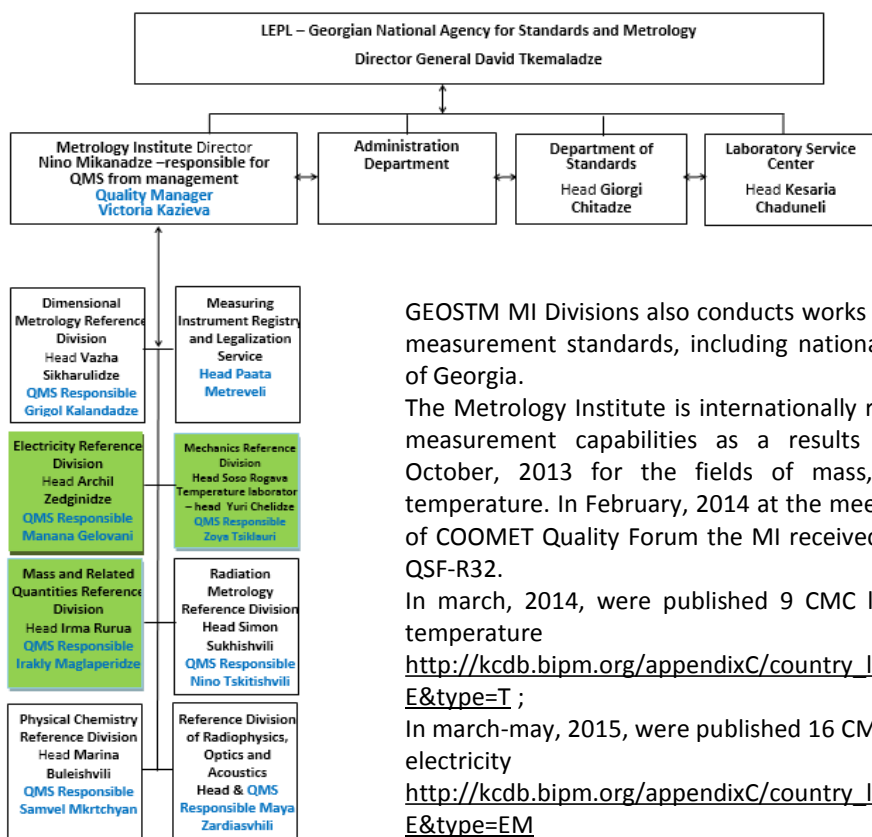
- Participation in works of developing scientific-methodic basis for developing system of uniformity of measurements;
- Organization of works related to standards registry, its management and provision of publication of standards list (registry);
- and other kinds of activities.

MI activities covers works on:

- development and improvement of measurement standards base
- calibrations and measurements
- verification
- expert measurements
- type approval
- recognition of initial verification, etc.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## GEOSTM Organizational Structure



GEOSTM MI Divisions also conducts works on maintenance and support for measurement standards, including national state measurement standards of Georgia.

The Metrology Institute is internationally recognized for its calibration and measurement capabilities as a results of peer-review, conducted in October, 2013 for the fields of mass, electrical measurements and temperature. In February, 2014 at the meeting of the Technical Committee of COOMET Quality Forum the MI received relevant recognition certificate QSF-R32.

In march, 2014, were published 9 CMC lines of GEOSTM in the field of temperature

[http://kcdb.bipm.org/appendixC/country\\_list\\_search.asp?CountSelected=GE&type=T](http://kcdb.bipm.org/appendixC/country_list_search.asp?CountSelected=GE&type=T) ;

In march-may, 2015, were published 16 CMC lines of GEOSTM in the field of electricity

[http://kcdb.bipm.org/appendixC/country\\_list\\_search.asp?CountSelected=GE&type=EM](http://kcdb.bipm.org/appendixC/country_list_search.asp?CountSelected=GE&type=EM)

And 5 CMC lines in the field of mass

[http://kcdb.bipm.org/appendixC/country\\_list\\_search.asp?CountSelected=GE&type=M](http://kcdb.bipm.org/appendixC/country_list_search.asp?CountSelected=GE&type=M).

For 100% factor of availability of public information for the year 2014 (similarly like in 2012-2013) GEOSTM was awarded a certificate by the Institute for Development of Freedom of Information (IDFI).

## Management and Contact Details:

### Georgian National Agency for Standards and Metrology (GEOSTM)

#### Director General:

**Mr. Davit Tqemaladze**

**Address:** Chargali Str., 67, 0178 Tbilisi, Georgia

**Telephone:** +995 32 261 35 00; +995 32 261 25 30

**Fax:** +995 32 261 35 00

**E-mail:** [geostm@geostm.ge](mailto:geostm@geostm.ge); [tkemaladzed@yahoo.de](mailto:tkemaladzed@yahoo.de)

**Website:** [www.geostm.ge](http://www.geostm.ge)

#### Director of Metrology Institute of GEOSTM:

**Ms. Nino Mikanadze**

**Telephone:** +995 32 261 77 57

**Fax:** +995 32 261 35 00

**E-mail:** [nino\\_mikanadze@yahoo.com](mailto:nino_mikanadze@yahoo.com); [ninmik@gmail.com](mailto:ninmik@gmail.com)



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## GERMANY

**Area:** 357.021 thousand km<sup>2</sup>

**Population:** 82.3 million

**Capital:** Berlin

**Time zone:** UTC+1

**National currency:** Euro

### 1. The institution responsible for measurement standards and scientific metrology in Germany is Physikalisch-Technische Bundesanstalt (PTB).

It is the National Metrology Institute providing scientific and technical services.

PTB's responsibilities are to achieve progress and ensure reliability in the field of metrology for the benefit of society, economy and science with research, measurement and consulting being its main activities.

#### Areas of PTB's work are:

- realisation, reproduction and dissemination of the SI units;
- development of national measurement standards;
- determination of fundamental constants and exploitation of quantum effects for realising the units;
- provision of traceable reference materials and determination of material properties;
- development of accurate and reliable measurement procedures;
- contribution to standardization and technology transfer by consulting and seminars;
- pattern evaluations, approval and consulting;
- metrology in commercial transactions, environmental, labour and radiation protection, medicine and safety engineering;
- cooperation in European and international metrology organisations as well as with other metrology institutes;
- technical cooperation with developing and newly industrialised countries.

**President of the PTB:** Prof. Dr. Joachim Ullrich

**Vice-President:** Dr. Roman Schwartz

**Member of Presidential Board:** Dr. Jörn Stenger

**Address:** Bundesallee 100, 38116  
Braunschweig, Germany

**Telephone:** +49 531 592 0

**Fax:** +49 531 592 9292

**E-mail:** Joachim.Ullrich@ptb.de  
[Roman.Schwartz@ptb.de](mailto:Roman.Schwartz@ptb.de)  
[Joern.Stenger@ptb.de](mailto:Joern.Stenger@ptb.de)

### 2. Institutions responsible for legal metrology

The basic principles of legal metrology are stipulated by the Units Act and the Verification Act, including the relevant implementing ordinances and additional regulations.

The physical and technical basis of the units to be applied in official and commercial transactions is today's International System of Units (SI).

The tasks of legal metrology are distributed between the federal and the state authorities.

PTB is responsible for type examination and type approval of measuring instruments and traceability to national standards used by the verification authorities.

The verification authorities of the sixteen states and the officially approved test centres for measuring instruments in the field of electricity, gas, water and heat are responsible for the individual testing of measuring instruments subject to mandatory verification.

#### Office of Consortium on Metrology and Verification at German Academy of Metrology (DAM)

**Address:** Franz-Schrank-Str. 9, 80638  
München, Germany

**Telephone:** +49 89 17 901 - 333

**Fax:** +49 89 17 901 - 386

**E-mail:** dam@img.bayern.de

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## 3. Institutions responsible for calibration service

Calibrations are performed by the calibration laboratories accredited by the “**Deutsche Akkreditierungsstelle GmbH (DAkks)**” founded by the German Government in Cooperation with the German Federation of Industry (BDI) The basis of the DAkks (former DKD) accredited calibration laboratories is the traceability of their reference standards to the national standards provided by the National Metrology Institute, the PTB or other National Metrology Institutes. Industrial laboratories and other institutes which, due to their trained personnel and equipment, are able to perform measurements with the required uncertainty and whose standards are traceable to the national standards of the PTB, are accredited as calibration laboratories.

Accreditation is granted by DAkks after assessment of the laboratories in accordance with the standard DIN EN ISO/IEC 17025. Membership of DAkks in the

European Cooperation for Accreditation (EA) and the International Laboratory Accreditation Cooperation (ILAC) ensures the recognition of the calibration certificates in all member countries worldwide. At present there are about 440 accredited calibration laboratories for electrical, magnetic, dimensional, mechanical, acoustical, fluid and optical quantities, as well as for chemical analysis, reference materials, time and frequency, ionising radiation and radioactivity, temperature and humidity.

### Head of the department Metrology of DAkks:

**Dr. Michael Wolf**

**Address:** Bundesallee 100, 38116  
Braunschweig, Germany

**Telephone:** +49 531 592 1900

**Fax:** +49 531 592 1905

**E-mail:** [michael.wolf@dakks.de](mailto:michael.wolf@dakks.de)



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## KAZAKHSTAN

**Area:** 2 717.3 thousand km<sup>2</sup>

**Population:** 16,658 million

**Capital:** Astana

**Time zone:** UTC+5, UTC+6

**National currency:** tenge

The activity in the field of metrology in the Republic of Kazakhstan is regulated by the Law on Assuring the Uniformity of Measurements establishing legal, economic and organizational bases of the uniformity of measurements. This Law is directed towards the protection of the rights and legitimate interests of the citizens and economy of the Republic of Kazakhstan from the consequences of invalid measurement results.

**The Committee of Technical Regulation and Metrology of the Ministry of Investments and Development of the Republic of Kazakhstan (MEMST)** is a national body state administration in charge of activities aimed at ensuring the uniformity of measurements.

**Chairperson:** Mr. Birzhan Kaneshev

**Address:** Center of Measurement Standards, Left bank of the river Ishim, Orynbor Str., 11, 010000, Astana, Republic of Kazakhstan

**Telephone:** +7(7172) 27 07 01

**E-mail:** sdandart@memst.kz

**Website:** www.memst.kz

**In accordance with the Law of the Republic of Kazakhstan on Assuring the Uniformity of Measurements the main objectives of MEMST are:**

- formation and realization of the state policy on assuring the measurement uniformity;
- coordination of activity of the metrology services of the Republic of Kazakhstan;
- establishment of measurement units admitted for application;
- organization of the conducting of research activities in the field of metrology;
- establishment of the rules of creation, approval, storage, use and comparisons of state measurement standards, improvement of measurement standard base of measurement units of the Republic of Kazakhstan;

- organization of comparisons of the results of verifying and calibrating measuring instruments;
- establishment of a classification of national standards of units used on the territory of the Republic of Kazakhstan;
- determination of the order of developing and approving normative documents on the assurance of measurement uniformity;
- determination of the common metrological requirements to instruments, measurement methods and results, procedures for verifying measuring instruments;
- determination of the order of using, producing and repairing measuring instruments;
- organization of the maintenance of the register of the state system of assuring measurement uniformity;
- organization and carrying out of the state metrological control;
- representation of the Republic of Kazakhstan in international and regional metrological organizations;
- organization of the proficiency development of specialists in the field of metrology.

**Republic State Enterprise “Kazakhstan Institute of Metrology” (RSE “KazInMetr”)** is a state scientific metrological centre.

**General Director:** Mr. Vassiliy Mikhilchenko

**Address:** Center of Measurement Standards, Left bank of the river Ishim, Orynbor Str.11, 010000, Astana, Republic of Kazakhstan

**Telephone:** +7172 27 09 99

**E-mail:** [87020000667@mail.ru](mailto:87020000667@mail.ru)

**Website:** www.kazinmetr.kz

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## RSE “KazInMetr” carries out:

- activity directed towards the development of metrology in the republic;
- scientific-technical, practical, organizational-methodical activities with the purpose of improving the bases of the state system of assuring measurement uniformity of the Republic of Kazakhstan;
- creation and improvement of the measurement standards base of measurement units of the Republic of Kazakhstan, measurement standards comparisons;
- participation in improving the legal and normative bases of the state system of assuring measurement uniformity;
- harmonization of normative documents on metrology with international requirements;
- pattern approval of measuring instruments produced in the Republic of Kazakhstan and imported measuring instruments on type approval;
- information and normative support of organisations in the field of metrology;
- raising of the level of skills and further training of specialists in the field of metrology.

## The international cooperation of MEMST in the field of metrology is realized within:

- International Organization of Legal Metrology (OIML);
- General Conference on Weights and Measures (CGPM);

- Euro-Asian Cooperation of National Metrological Institutions (COOMET);
- Euro-Asian Council for Standardization, Metrology and Certification (EASC);
- Interregional Standardization Association (IRSA);
- International Measurement Confederation (IMEKO);
- Asian-Pacific Metrology Programme (APMP).

In 2006 RSE “KazInMetr” signed The Mutual Recognition Arrangement (MRA) for national measurement standards and for calibration and measurement certificates issued by national metrology institutes. In 2008 Republic of Kazakhstan became a full member to Metre Convention.

Currently Kazakhstan published 51 rows CMC data in CMC database on the BIPM web site, as the result of participation in international comparisons of measurement standards.

The state service of reference substances and materials of composition and properties hosted by RSE “KazInMetr” have been performing since 2002; the state service of time and frequency and the state service of reference data of physical constants and properties of substances and materials have been performing since 2005.

Besides the State Metrology Service the national metrology infrastructure includes a number of organizations, accredited for calibration of measuring instruments, evaluation of measurement methods.



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## KYRGYZSTAN

**Area:** 198.5 thousand km<sup>2</sup>

**Population:** 5,224 million

**Capital:** Bishkek

**Time zone:** UTC+6

**National currency:** som

State management activities to ensure traceability in the country is regulated by **The Ministry of Economy of the Kyrgyz Republic (MEAP KR)** in accordance with the law of the Kyrgyz Republic "On ensuring the Unity of Measurements" and the Government of the Kyrgyz Republic No. 727 from 04.12.09.

The organizational structure of the National Metrology System consists of MERKR, Center for Standardization and Metrology and the State Inspectorate of metrological supervision.

### **The Ministry of Economy of the Kyrgyz Republic**

**Minister:** Mr. Sariev Temir  
**Address:** 106 Chui Avenue, 720002 Bishkek, Kyrgyz Republic  
**Telephone:** +996 312 62 05 90  
+996 312 62 37 54  
**Fax:** +996 312 66 18 37  
**E-mail:** [mert@mert.kg](mailto:mert@mert.kg)

Major activities are as follows:

- development and implementation of State Policy on Ensuring Unity of Measurements;
- coordinate the activities of the Center for Standardization and Metrology;
- installation of measurement units permitted for use;
- establishment of procedures for the development and approval of documents to ensure unity of measurements;
- organization and implementation of the state Metrological Supervision of compliance requirements to ensure unity of measurements;
- accreditation of laboratories carrying out the calibration of measuring instruments.

### **Center for Standardization and Metrology under the Ministry of Economy of the Kyrgyz Republic (CSM)**

**Director:** Mr. Alimbek Kurmanbaev

**Address:** 197 Panfilov Str., 720040 Bishkek, Kyrgyz Republic  
**Telephone:** +996 312 62 68 70  
+996 312 62 57 34  
**Fax:** +996 312 66 13 67  
**E-mail:** [nism@nism.gov.kg](mailto:nism@nism.gov.kg)  
[metrolog@nism.gov.kg](mailto:metrolog@nism.gov.kg)  
[metr\\_kg@mail.ru](mailto:metr_kg@mail.ru)

### **The basic activities include:**

- establishment and development of a national legal metrology system. The purposes of this system are to maintain traceability of measurement results, secure public interests and encourage fair competitiveness between vendors;
- realisation and dissemination of base and derived units of the International System of Units (SI); development, maintenance and improvement of the national standards of physical quantities;
- rendering of verification (calibration) and measurement services to manufacturers and organisations having different ownership;
- type approval and metrological evaluation of measuring instrument; maintenance of the state register of approved measurement instruments and reference materials;
- participation in comparisons of measurement standards at international, regional and national levels for the purpose of their technical maintenance and worldwide recognition of the resulting calibration and measurements certificates;
- development and evaluation of measurement procedures;
- research in the field of metrology;
- participation in the activities of regional and international metrology organisations;
- Participation in Training and raising the level of skills of experts in metrology.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

At the international level NISM cooperates with:

- International Organisation of Legal Metrology (OIML);
- Interstate Council for Standardization, Metrology and Certification (EASC);
- Interregional Standardization Association (IRSA);
- International Measurement Confederation (IMEKO);
- Euro-Asian Cooperation of National Metrological Institutions (COOMET).

The structure of the state metrological service also includes 9 regional metrological centers.

## **National Inspection to the Metrological Supervision under the Ministry of Economy of the Kyrgyz Republic (NIMS MEAP KR)**

**Department:** Mr. Akhmatov Sultan  
**Address:** Panfilov Str., 197  
720040, Bishkek, Kyrgyz Republic  
**Phone:** +996 312 66 01 17  
+996 312 66 26 21  
**Fax:** +996 312 62 57 15  
**E-mail:** [gimn@metronadzor.kg](mailto:gimn@metronadzor.kg)  
[www.metronadzor.kg](http://www.metronadzor.kg)

## **Main activities:**

- the implementation in the Kyrgyz Republic a unified state policy in ensuring unity of measurements;
- protecting the interests of the state and citizens from the consequences of incorrect measurements;
- carries out the state metrological supervision:
  - the release, condition and use of measuring instruments, including reference materials and properties of substances (materials), compliance regulations in the area of traceability in the sphere of state regulation, which applies:
  - health, veterinary medicine, environmental protection;
  - to ensure the safety and traffic;
  - for trade transactions and mutual settlements between producer and consumer;
  - to operate in a mandatory technical regulation;
  - for the amount of goods disposed of in the commission trade, in order to determine the actual values of the mass, volume, flow or other variables and compliance with the realized number of these goods;
  - a number of packaged goods in packages of any kind in their packaging, sale and import in cases where the contents can't be changed without its breaking or deformation, and the mass, volume, length, area or other value indicating the number contained in the package goods are marked on the package.





# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## LITHUANIA

**Area:** 65.2 thousand km<sup>2</sup>

**Population:** 3.4 million

**Capital:** Vilnius

**Time zone:** UTC+2

**National currency:** Euro

The Ministry of Economy of the Republic of Lithuania (<http://www.ukmin.lt/web/en/>), according to the Law on Metrology, is responsible for the formation of metrology policy, coordination of uniformity of measurements in Lithuania, carrying out implementation of legal metrological regulation, as well as for exchange of information on notification of bodies with the other EU member states.

**State Research Institute Center for Physical Sciences and technology (FTMC)** performs the functions of a **National Metrology Institute**. FTMC together with the national standards laboratories from **LEI** and **VMC**, are authorised by the Government of Lithuania to develop and maintain national measurement standards.

The national standards laboratories create, maintain, use and improve national standards, assure assignment of reproduced measurement quantities, maintain international traceability in the fields allocated to them and represent Lithuania in the activities of international metrological organisations in the scope of their competence.

According to the Resolution of the Government of Lithuania No. 595 of 25 June 2014 *on the approval, maintenance and use of national measurement standards, and approval of the list of national measurement standards and national standard laboratories*, laboratories were authorized to develop and keep national standards. The development of national measurement standards is being performed in line with the aforementioned Resolution, as well as the needs and economical capabilities of Lithuania.

Verification and calibration of measuring instruments and standards is performed by the stock companies – Vilnius, Kaunas, Klaipėda, Šiauliai and Panevėžys Metrology Centres (MCs) and private accredited laboratories for calibration and testing of certain kinds of measuring instruments, which are appointed by the Ministry of Economy.

Accredited and designated by the Ministry of Economy bodies carries out metrological conformity assessment in respect of pre-packaged goods or measuring containers, affixes respective marks and (or) issue documents ascertaining conformity.

Notified bodies carry out conformity assessment activities according to the EU legislation.

### **The Lithuanian Metrology Inspectorate**

(<http://www.metrinsp.lt/2/>) was established according to the Law on Metrology of Lithuania and performs the tasks of market surveillance for measuring instruments, which are under the metrological control, for prepackaged goods and measuring containers also for quantity of weighted, counted measured and dosed products.

### **At Kaunas University of Technology established the Institute of Metrology**

(<http://metrologija.ktu.edu/>), whose tasks are organization, coordination and execution of research in the field of metrology, as well as training of specialists in metrology.

There is a Technical Committee “Metrology” within the Lithuanian Standards Board. It’s main responsibility is to draft written standards in the metrology field.

### **State Research Institute Center for Physical Sciences and technology (FTMC)**

**Director:** Dr. Gintaras Valušis

**Address:** Savanorių avenue 231, LT-02300 Vilnius, Lithuania

**Phone:** : +370 5 261 2758

**Fax:** : +370 5 262 7123

**E-mail:** [metrology@ftmc.lt](mailto:metrology@ftmc.lt)

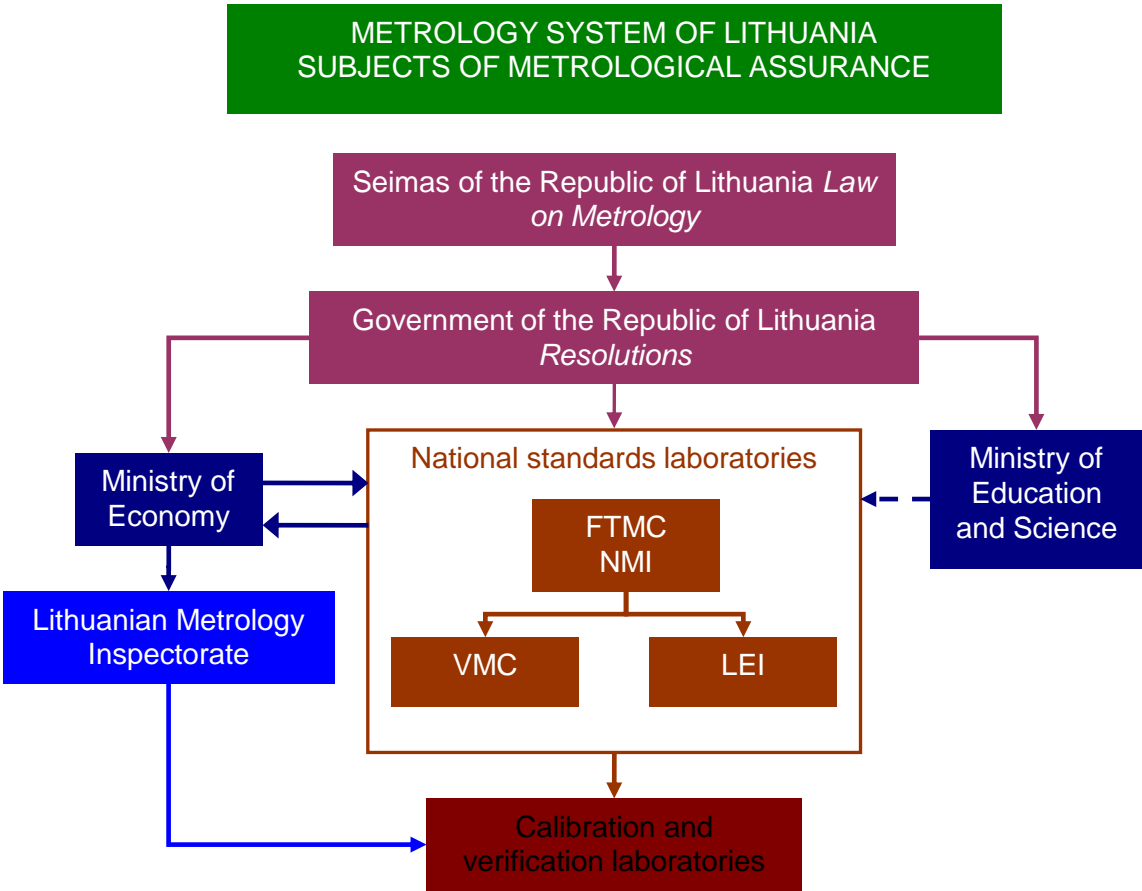
**Website:** [www.ftmc.lt](http://www.ftmc.lt)

FTMC, representing National Metrology Institute, resigned the Mutual Recognition Arrangement (CIPM MRA) on November of 2014. The first time CIPM MRA was signed by Lithuanian NMI in 2001. Three institutes FTMC; VMC and LEI were appointed to fulfill the requirements of the CIPM MRA in Lithuania.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

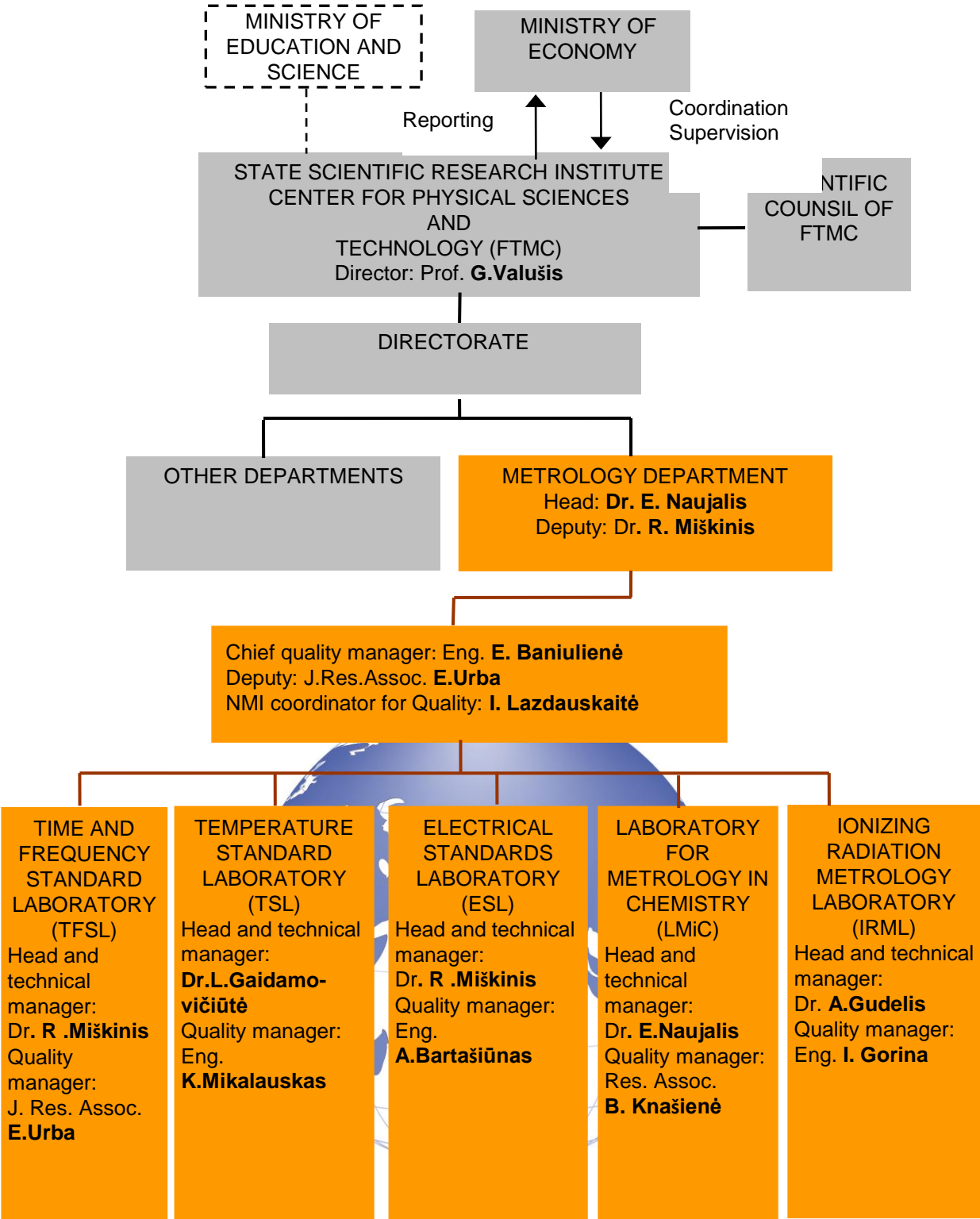
National Standards Laboratory	Subject Field
1. State Scientific Research Institute Center for Physical Sciences and Technology(FTMC)- NMI QMS- Self declared <a href="http://www.ftmc.lt/en/">http://www.ftmc.lt/en/</a>	Time and Frequency Temperature Electricity Metrology in chemistry Ionizing radiation (for radioactivity)
2. Stock Company Vilnius Metrology Centre (VMC)- DI QMS - Accredited <a href="http://www.vmc.lt/">http://www.vmc.lt/</a>	Mass Pressure Length
3. Lithuanian Energy Institute (LEI)-DI QMS - Accredited <a href="http://www.lei.lt/main.php?m=241&amp;k=9">http://www.lei.lt/main.php?m=241&amp;k=9</a>	Flow

\*QMS- Quality management system





# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## **Lithuanian Institute of Energy (LEI) – Designated Institute**

**Director:** Sigitas Rimkevičius

**Address:** Breslaujos str. 3, LT-44403 Kaunas, Lithuania

**Phone:** +370 37 401 924

**E-mail:** [Sigitas.Rimkevicius@lei.lt](mailto:Sigitas.Rimkevicius@lei.lt)

## **Laboratory of Heat Equipment Research and Testing**

**Head:** Dr. Nerijus Pedišius

**Address:** Breslaujos str. 3, LT-44403 Kaunas, Lithuania

**Phone:** +370 37 401 863

**Fax:** +370 37 351 271

**E-mail:** [Nerijus.Pedisius@lei.lt](mailto:Nerijus.Pedisius@lei.lt) [testlab@isag.lei.lt](mailto:testlab@isag.lei.lt)

**Website:** <http://www.lei.lt>

## **JSC Vilnius Metrology Center (VMC) – Designated institute (DI)**

Vilnius Metrology Center (VMC) is a joint stock company providing services in legal metrology, authorized to create and maintain national standards of units of measurement.

**Director general:** Vida Martišienė

**Address:** Dariaus ir Girėno str.23 LT-02189 Vilnius, Lithuania

**Phone:** +370 5 230 6276

**Fax:** +370 5 230 6364

**E-mail:** [vmc@vmc.lt](mailto:vmc@vmc.lt), [v.martisiene@vmc.lt](mailto:v.martisiene@vmc.lt)

**Website:** <http://www.vmc.lt>

**Head of the joint laboratory:** Ilona Milkamanavičienė

**Phone:** +370 5 216 5045

**Fax:** +370 5 230 6364

**E-mail:** [vmc@vmc.lt](mailto:vmc@vmc.lt), [i.milkamanaviciene@vmc.lt](mailto:i.milkamanaviciene@vmc.lt)



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## MOLDOVA

**Area:** 33.7 thousand km<sup>2</sup>

**Population:** 3.567 million

**Capital:** Chisinau

**Time zone:** UTC+2

**National currency:** MDL

According to the Law on metrology No. 19 adopted in the Republic of Moldova on the 04th of March 2016, the authority responsible for the implementation of the policy in the field of metrology is the **Ministry of Economy (General Direction for quality infrastructure and market surveillance)** that is the **Central Metrology Authority**.

In the field of metrology, the ministry is complying with the provisions of the Law on metrology, enactments of the President of the Republic of Moldova, dispositions, orders, ordinances of the Government of the Republic of Moldova, international agreements and conventions signed by the Republic of Moldova.

The infrastructure of national system of metrology includes:

- Central Metrology Authority (CMA) – central public administration body under the Government, responsible for the quality infrastructure - the Ministry of Economy;
- Public Institution National Institute for Metrology;
- National Measurement Standards Database;
- National Technical Council on Metrology;
- Agency for Consumer's Protection;
- Metrological departments of legal entities.

The **Ministry of Economy** has the following attributions:

- Development and coordination of the implementation of the state policy in the field of metrology;
- Development of relevant legislation and participation in the development and approval of normative acts drafts for the purpose of assurance of measurement results traceability to the International System of Units (SI system);
- Approval of legal metrology regulations within its

competence;

- Maintenance of National Registers of the National System of Metrology (national measurement standards, legal metrology regulations and authorized entities);
- Coordination of metrological activity of the central public administration branch bodies, both legal entities and individuals that perform activities in the field of metrology;
- Represents the Republic of Moldova in regional and international organizations of metrology together with the National Institute for Metrology;
- Designation of legal entities for verification of legal measuring instruments and for performing official measurements on the basis of certificate of accreditations issued by the national accreditation body;
- Approval of training programs in the field of metrology, including training programs for experts in the field of legal metrology, technical experts in metrology and verification officers.

### The Public Institution National Metrology

**Institute** is a legal entity and accomplishes its activity on the basis of regulations affirmed by Central Metrology Authority and by regulations and provisions of current law. The National Metrology Institute performs the following functions:

#### Functions on legal metrology:

- Development of legal metrology regulations harmonized with international and regional practices;
- Execution of technical works in the domain of legal metrology (type approval, primary, periodical and expert verifications of measuring instruments, official measurements, metrological examinations of the normative documents projects);

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

- Conduct of state measuring instruments registries, legal methodology of metering, regulations in legal metrology and parties registered in National Metrology System;
- Participation in work of international and regional forums in the domain of metrology together with CMA;
- Realization of agreements on mutual recognition of type approval and verification, technical competence of verification, testing laboratories and laboratories for calibration of measuring instruments and standard samples;
- Recognition of the results of metrological tests for EC type approval, EC verifications of measuring instruments, and the relevant certificates, realized in the European Union states – members;
- State registration of juridical persons fulfilling activities on repair, sale, rent and assembly of measuring instruments, and juridical persons who manufacture, import or package the products.

## **Functions on general metrology:**

- Realization of national policy in the domain of metrology;
- Creation, development and maintenance of national and reference standards, storage and transmission of legal units;
- Assurance of measuring results traceability through comparison of national database of standards on regional and international levels, maintenance of national and reference standards, storage and transmission of legal units;
- Training and professional development of experts in legal metrology, technical experts in metrology and verification officers;
- Elaboration and examination of the normative documents projects on assurance of measurements traceability, approved in metrological requirements with international and national documents of other countries.

**The Public Institution National Metrology Institute** is a legal entity and performs its activity on the basis of regulations approved by the Central Metrology Authority and of regulations and provisions of the relevant national legislation. The

National Institute for Metrology has the following attributions:

## **Legal metrology attributions:**

- Performs the legal metrological control through type approval, metrological verification of measurement instruments in special cases;
- Gives proposals to the central authority on metrology regarding the regulation of measurement instruments;
- Implements the agreements signed with other countries on the recognition of testing results performed for type approval, and of metrological verification results;
- Develops program drafts for trainings in metrology;
- Consults the stakeholders on technical problems in the field of legal metrology;
- Manages the State Register of measurement instruments and the database of entities that have technical notes;
- Gives technical notes in order to keep track of persons and legal entities that repair or install measurement instruments, as well as those who manufacture measurement recipients;
- Drafts legal metrology normative documents, harmonized with the regional and international practice;
- Gives methodological support for the development of legal measurement procedures by the relevant authorities or interested legal entities;
- Gives technical support for metrological surveillance;
- Creates and manages the national database of normative documentation in the field of legal metrology.

## **General metrology attributions:**

- Implementation of state policy in metrology at national level;
- Assures the metrological traceability of the results of measurements performed in the Republic of Moldova to the International System of Units SI; manages the National Measurement Standards Database; disseminates the legal measurement units from national standards to hierarchically inferior and work standards;

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

- Develops agreements of mutual recognition of national measurement standards and of calibration certificates issued by national metrology institutes;
- Represents the national reference for the determination of technical competency in the field of metrology, including for measurement standards;
- Consults the stakeholders on technical problems in the field of metrology;
- Participates in regional and international metrology organizations;
- Trains specialists in metrological verification;
- Organizes inter-laboratory comparisons at national level.

**Agency for Consumer's Protection** was created by the Government Decision No. 936/31.07.2011, as a result of the reorganization of Main State Inspectorate for Market Surveillance, Metrology and Consumer Protection. The Agency for Consumer's Protection is a legal entity having legislative functions of metrological control and surveillance over the national internal market.

## **Metrological departments of legal entities:**

The Metrological services of legal entities authorized by the national system of metrology to carry out works in the field of metrology, perform the functions of assurance of unity and accuracy of the measurements by performing verifications of legalized measurement instruments or/and official measurements.

## ***Ministry of Economy of Republic of Moldova - Central Authority of Metrology***

### **Mr. Octavian CALMIC,**

Deputy Prime Minister, Minister

1, Piata Marii Adunari Nationale str. MD-2033,  
CHISINAU

tel. + 373 22 250 107

fax: + 373 22 234 064

e-mail: [octavian.calmic@mec.gov.md](mailto:octavian.calmic@mec.gov.md)

Website: [www.mec.gov.md](http://www.mec.gov.md)

### **Mr. Vitalie IURCU,**

Deputy Minister

1, Piata Marii Adunari Nationale str. MD-2033,  
CHISINAU

tel.: +373 22 250 591

fax: +373 22 250 670

e-mail: [vitalie.iurcu@mec.gov.md](mailto:vitalie.iurcu@mec.gov.md)

## ***Public Institution National Metrology Institute***

### **Mr. Anatolie Melenchuk,**

Director

28 E. Coca str., MD 2064, CHISINAU

tel.: +373 22 903 100

fax: +373 22 903 111

e-mail: [info@metrologie.md](mailto:info@metrologie.md)

website: [www.metrologie.md](http://www.metrologie.md)

## ***Agency for Consumer's Protection***

78 Vasile. Alexandri str., MD 2012, CHISINAU

tel: +373 22 501 980

fax: +373 22 501 981

e-mail: [consummator@apc.gov.md](mailto:consummator@apc.gov.md)

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## ROMANIA

**Area:** 237.5 thousand km<sup>2</sup>

**Population:** 2.5 million

**Capital:** Bucharest

**Time zone:** UTC+2

**National currency:** leu

The basic act establishing the national policy in the field of metrology is the Ordinance No. 20/1992 approved by the Law No. 11/1994. This document concerns the use of the units of measurement, the national system of measurement standards and the regime of the measuring instruments subject to the state metrological control.

The official body responsible for metrology in Romania is **the Romanian Bureau of Legal Metrology (BRML)**, a public institution, with non-budgetary financing, subordinated to the Ministry of Industry and Trade. BRML coordinates the metrology activities at the national level and supervises the compliance with the legal metrology regulations throughout the country.

### FUNDAMENTAL METROLOGY

**The National Institute of Metrology (INM)**, with laboratories in Bucharest and Timisoara, provides the maintenance and development of the national measurement standards, their comparison with international measurement standards and measurement standards of other countries, dissemination of the measurement units to secondary standards, higher echelon calibration services, scientific research in metrology and other related fields. INM is a research institute, part of the BRML structure, which is financed mainly through services paid by customers, but also through contracts financed by the Ministry of Research and Technology.

#### National Institute of Metrology (INM)

**Director:** Dr. Dragos Boiciuc

**Address:** 11 Sos. Vitan Bârzesti, 75669  
Bucharest, Romania

**Telephone:** +40 1 334 55 20

**Fax:** +40 1 334 53 45

**E-mail:** [office@inm.ro](mailto:office@inm.ro)

The activity of INM covers the major part of physical quantities (dimensional, mechanical, electromagnetic, thermal, optical, physical-chemical, ionising radiation, etc.). The primary standards realised at INM are assessed by BRML and declared as national standards through governmental decisions.

INM also performs calibrations, metrological verifications, pattern and conformity tests, high accuracy measurements, certification of reference materials, international cooperation; offers consultations, education and training in metrology; prepares calibration/verification procedures and publishes the technical quarterly journal METROLOGIE.

### APPLIED METROLOGY

The set of activities aimed at assuring traceability of all measurements in industry and other areas – also known as industrial or technical metrology – is carried out mainly in the regional metrology laboratories belonging to BRML and in the laboratories of enterprises and factories.

### LEGAL METROLOGY

According to the legislation in force in the field of metrology, the measuring instruments used in areas of public interest, such as trade, health, environment protection, etc. are submitted to the metrological control of the state. This control is exerted mainly through the authorisation of metrology laboratories and their personnel, through pattern approval of measuring instruments manufactured in Romania or imported, through initial and subsequent metrological verifications and through metrological surveillance.

BRML issues orders and regulations in the field of legal metrology, performs inspections and applies sanctions, represents Romania in the international organisations of legal metrology.



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## RUSSIA

*Area: 17.075 million km<sup>2</sup>*

*Population: 145.2 million*

*Capital: Moscow*

*Time zone: UTC+3 – UTC+12*

*National currency: ruble*



All activity on assuring the uniformity of measurements in Russia is based on the Law of the Russian Federation On Assuring the Uniformity of Measurements issued in 2010. Realisation of this Law, fulfilment of metrological functions and terms of reference are approved by Decrees of the President of the Russian Federation No. 314 of 9 March, 2004 and No. 649 of 20 May, 2004 and Government Directive No. 294 of 17 June, 2004 and are implemented by **the Federal Agency on Technical Regulation and Metrology (Rosstandart)** under the Federal Ministry of Industry and Energy (Minpromtorg of Russia).

### Head of the Metrology Department:

**Mr. Roman Rodin**

**Address:** 9 Leninsky Prospect, 117049  
Moscow, Russia

**Telephone:** +7 499236 75 60  
+7 499236 30 42

**Fax:** +7 499236 62 31

**E-mail:** [info@gost.ru](mailto:info@gost.ru), [metrol@gost.ru](mailto:metrol@gost.ru)

The State Metrology Service is a subsidiary of Rosstandart, which incorporates state scientific centres (research metrology institutes) and local metrology departments of different regions of Russia.

### **Rosstandart coordinates the work of the following:**

- State Service of Time and Frequency and Determination of the Earth Rotation Parameters (SSTF);
- State Service of Reference Materials of the Composition and Properties of Substances and Materials (SSRM);
- State Service of Standard Reference Data of Physical Constants and Properties of Substances and Materials (SSSRD).

**Rosstandart carries out state metrological surveillance and control over measuring instruments.**

**State regulation in the field of assurance of measurement uniformity** is executed in the following forms:

- type approval of reference materials or type of measuring instruments;
- verification of measuring instruments;
- metrological expertise;
- state metrological supervision;
- attestation of measurement procedures (methods);
- accreditation of legal entities and self-employed entrepreneurs to perform work and (or) render services in the field of assurance of measurement uniformity.

**The state metrological supervision** shall include:

- observance of obligatory requirements in the field of state regulation of assurance of measurement uniformity to measurements, quantity units, and also to measurement standards of quantity units, reference materials, measuring instruments during their release from manufacture, import to the territory of the Russian Federation, sale and application in the territory of the Russian Federation;
- availability and observance of the certified measurement procedures (methods);
- observance of obligatory requirements to deviation of quantity of prepackaged products from the declared value.

**International cooperation in the field of metrology** is performed with the following organisations:

- International Organisation of Legal Metrology (OIML);
- International Bureau of Weights and Measures (BIPM);
- Euro-Asian Cooperation of National Metrological Institutions (COOMET);
- Asia-Pacific Legal Metrology Forum (APLMF);
- Interstate Council for Standardisation, Metrology and Certification (EASC);
- other international and regional organisations.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

Metrology institutes of Russian Federation actively collaborate with national metrology centres of Germany, the USA, the United Kingdom, Slovakia, Japan, France, Korea, China, India, Belarus, Ukraine, Lithuania, etc.

A good deal of activity regarding the development, improvement, maintenance and use of national measurement standards, as well as research in the field of metrology including elaboration of normative documents of GSI is carried out by Metrology Institutes of Rosstandart. The majority of these institutes is specialised in specific fields of measurements and accredited as state test centres of measuring instruments and verification centres, as bodies on voluntary certification of measuring instruments and at the same time authorised to perform accreditation in the Russian System of Calibration (RSC).

## All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev (VNIIM)

**Director:** Mr. Kirill Gogolinsky  
**Address:** 19 Moscovsky Prospect, 190005  
Sankt-Petersburg, Russia  
**Telephone:** +7 812 251 76 01  
**Fax:** +7 812 713 01 14  
**E-mail:** [info@vniim.ru](mailto:info@vniim.ru)

The institute is a successor of the Central Chamber of Measures and Weights, which was the first and one of the oldest world metrology institutions. It is also the biggest world research centre of metrology and leading Russian research organisation in the field of metrology that maintains national measurement standards and has an official status of the State Research Centre of the Russian Federation.

## All-Russian Scientific Research Institute of Metrological Service (VNIIMS)

**Director:** Dr. Alexander Kuzin  
**Address:** 46 Ozernaya Str., 119361  
Moscow, Russia  
**Telephone:** +7 495 437 55 77  
**Fax:** +7 495 437 56 66  
**E-mail:** [office@vniims.ru](mailto:office@vniims.ru)

VNIIMS is the main centre of the State Metrology Service and a centre of measurement standards in

the filed of measurements of middle pressures, geometric parameters of machined surfaces and form deviations of rotating objects, high and ultrahigh voltages, etc.

It carries out research and engineering in the filed of scientific, applied and legal metrology. VNIIMS is a scientific-methodological centre of the Russian System of Calibration (RSC) and certification of measuring instruments. It also acts as a head organisation of Rosstandart of Russia in international cooperation and training and information resource in the field of metrology.

## All-Russian Scientific Research Institute of Optical and Physical Measurements (VNIIOFI)

**Director:** Dr. Vladimir Krutikov  
**Address:** 46 Ozernaya Str., 119361  
Moscow, Russia  
**Telephone:** +7 495 437 56 33  
**Fax:** +7 495 437 31 47  
**E-mail:** [vniiofi@vniiofi.ru](mailto:vniiofi@vniiofi.ru)

VNIIOFI is a leading organisation on assuring the uniformity of measurements in the fields of photometry; radiometry (including laser radiometry); spectroradiometry and spectrophotometry; colorimetry; radiation pyrometry; sensitometry and densitometry; refractometry and polarimetry; measurements of the parameters of fibre-optics data transmission systems (FOTS); measurements of optical parameters of high-speed processes; measurements of pulse parameters of electric and magnetic fields.

### VNIIOFI is designated as:

- head organisation in the field of measurements of optical and physical parameters and parameters of high-speed processes;
- head organisation for assuring the uniformity of measurements in public health and in manufacture of medical equipment;
- head organisation for assuring the uniformity of measurements in the field of non-destructive testing.

VNIIOFI takes part in the work of the Russian Committee on High-Speed Photography and Photonics, which includes leading scientists of Russian Academy of Sciences, experts of higher education system and industry.



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## **The Ural Scientific Research Institute of Metrology (UNIIM)**

**Director:** Dr. Sergey Medvedevskikh  
**Address:** 4 Krasnoarmeyskaya Str., 620000,  
Yekaterinburg, Russian Federation  
**Telephone:** +7 3433 50 26 18  
**Fax:** +7 3433 50 20 39  
**E-mail:** [uniim@uniim.ru](mailto:uniim@uniim.ru)

Scientific and methodological centre of the State Service of Certified Reference Materials for composition and properties of substances and materials, providing scientific and guidance support of the works and coordination of interstate and interbranch activities on the production, testing and implementation of certified reference materials with the aim of ensuring the uniformity of measurements on the basis of their use.

It carries out scientific research, develops measurement standards and certified reference materials for ensuring the uniformity of measurements of temperature and thermo-physical parameters, surface density and thickness of coatings, magnetic and electrical quantities, linear and angular parameters, deformation and force, mass, torque and mechanical power, pressure, humidity of solid substances, physical chemistry composition and properties of substances and materials.

Expert centre for accreditation in the areas of conformity assessment and ensuring the uniformity of measurements, Scientific and methodological centre for organization and holding interlaboratory comparison tests; Centre for testing and verification (calibration) of measurement instruments; Certification body for measurement instruments, certified reference materials and industrial products; Testing centre for nanoindustry substances, materials and products.

Quality Management System was recognized by COOMET Quality Forum as complying with the requirements of ISO/IEC 17025 and ISO Guide 34.

## **Siberian State Scientific Research Institute of Metrology (SNIIM)**

**Director:** Mr. Gennady Shuvalov  
**Address:** 4 Dimitrov Prospect, 630004,  
Novosibirsk, Russia  
**Telephone:** +7 383 210 08 14  
**Fax:** +7 383 210 13 60  
**E-mail:** [director@sniim.nsk.ru](mailto:director@sniim.nsk.ru)

SNIIM is a centre of measurement standards of the parameters of electro-radio circuits at high and ultra high frequencies; electro-magnetic features of materials at high and ultra high frequencies; heavy loads; thermal torrents; minor lengths.

SNIIM maintains reference installation, which is a part of the equipment of the State Service of Time and Frequencies (SSTF) and the determination of the Earth rotation parameters.

## **All-Russian scientific research institute of flow measurement (VNIIR)**

**Acting Director:** Mr. Vladimir Solovyev  
**Address:** 7a, 2 Azinskaya Str., 420088,  
Kazan, Russia  
**Telephone:** + 7 843 272 70 62  
**Fax:** + 7 843 272 00 32  
**E-mail:** [office@vniir.org](mailto:office@vniir.org)

The institute is the main center in Russia in the field of metrological support of measurements of flow and amount of liquids and gases, the volume and weight (in flow) of liquids and gases, volume (capacity measure) fluids, fluid level and granular media, physico-chemical properties and composition of crude oil and petroleum products. Is the center of the state primary standards. It has the status of the State Scientific Metrological Center of Russia.

## **National Research Institute of Physicotechnical and Radio Engineering Measurements (VNIIFTRI)**

**General Director:** Dr. Sergey Donchenko  
**Address:** Mendeleevo, Solnechnogorsky  
District, 141570, Moscow Region,  
Russia  
**Телефон:** +7 495 744 81 12  
**Факс:** +7 495 944 52 68  
**E-mail:** [director@vniiftri.ru](mailto:director@vniiftri.ru)

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

VNIIFTRI with its regional branches is a national metrology institute, which maintains and operates national primary and secondary standards in various metrology areas such as time and frequency, long distances, positioning, radio frequency measurements, magnetism, low temperature and thermophysical properties, high pressure, hardness of metals, sound in air and water, electrochemistry (pH, ions, electrolytic conductivity), disperse parameters of aerosols, suspensions and powders, ionizing radiation and nuclear constants. The institute also develops acousto-optic methods of measurement and provides metrology solutions to construction industry needs.

VNIIFTRI has the status of a State Scientific Center of the Russian Federation; it serves as the Main Metrology Center for the State Service for Time, Frequency and Earth Orientation Parameters, supporting its operation in cooperation with other institutions.

*VNIIFTRI has the following below mentioned branches:*

## **VNIIFTRI East-Siberian branch (ESB)**

**Director:** Dr. Victor Yegorov  
**Address:** 57 Borodina Str., 664056, Irkutsk, Russia  
**Telephone:** +7 3952 46 83 03  
**Fax:** +7 3952 46 38 48  
**E-mail:** [director@niiftri.irk.ru](mailto:director@niiftri.irk.ru),  
[office@niiftri.irk.ru](mailto:office@niiftri.irk.ru)

The East-Siberian Branch is a metrology centre responsible for providing the uniformity of measurements in astro-optical and satellite determinations of Earth Orientation Parameters. It is also a centre for time and frequency standards in the East Siberian region, national primary standards for the dielectric parameters of substances and materials, and the humidity of gases.

## **VNIIFTRI Far East branch (FEB)**

**Director:** Dr. Yuri Lykov  
**Address:** 65 K. Marks Str., 680000, Khabarovsk, Russia  
**Telephone:** +7 4212 32 92 68  
**Fax:** +7 4212 30 15 66  
**E-mail:** [director@dfvniiftri.ru](mailto:director@dfvniiftri.ru),  
[dalstandart@dst.khv.ru](mailto:dalstandart@dst.khv.ru)

The Far-Eastern Branch is a regional metrology centre for time and frequency standards in the Far East. It is also involved in providing the uniformity of ultrasonic measurements in solids.

## **VNIIFTRI Kamchatka branch (KB)**

**Director:** Dr. Vladislav Sobolev  
**Address:** Russian Federation, 683002, Petropavlovsk-Kamchatsky, Severo-Vostochnoye highway, 30, P.O.Box 26  
**Phone:** +7 4152 49 75 41  
**Fax:** +7 415 2 49 75 48

The Kamchatka Branch is a regional metrology centre, which is part of the State Service for Time, Frequency and Earth Orientation Parameters.

**The Central Scientific Metrology Centre of the State Service for Standard Reference Data on Physical Constants and Properties of Substances and Materials (CSMC “SRD” )** functions as a department of FGUP “VNIIMS”.

## **Head of CSMC “SRD”:**

**Dr. Alexander Kozlov**  
**Address:** 46 Ozernaya Str., 119361 Moscow, Russia, FGUP “VNIIMS”  
**Телефоны:** +7 (495) 781-48-71  
**Факс:** +7 (495) 437 56 66  
**E-mail:** [kozlov@vniims.ru](mailto:kozlov@vniims.ru)

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## CSMC “SRD” carries out:

- development and certification of standard reference data tables (SRD), and maintains a register of SRD tables;
- development and certification of SSSRD procedures and recommended reference data (RRD), and maintains tables of RRD and SSSRD procedures;
- development of software for the implementation of SRD tables and SSSRD procedures;
- development of data bases for the properties of substances and materials;
- information provision with certified reference data on the properties of substances and materials.

## Center for Surface and Vacuum Research (NICPV)

**Director:** Prof. Dr. Pavel Todua  
**Address:** 40/1 Novatorov Str., 119421,  
Moscow, Russia  
**Telephone:** +7 495 935 97 77  
**Fax:** +7 495 935 96 90  
**E-mail:** [fgupnicpv@mail.ru](mailto:fgupnicpv@mail.ru)

## The major activities of NICPV are as follows:

- complex study of structure, physicochemical and mechanical surface properties of a solid body and thin films, characteristics of processes at the phase thresholds with the purpose to develop

high-accuracy measurement instruments and methods for controlling technological processes aiming at assuring the uniformity of measurements in future technologies including micro- and nanotechnologies;

- research in the field of fundamental metrology directed at the creation and improvement of methods and high-accuracy measuring instruments, development of physical principles and creation of reference base of a new generation;
- development of methods and instruments for disseminating physical units from current measurement standards to working instruments, development of special standards for assuring uniformity of measurement in micro-, opto-, nanoelectronics, nanotechnology, precise machine-building, instrument making, biotechnology and microbiology, genetic engineering, chemistry and chemical technology;
- development of high-accuracy measurement instruments in the field of geometrical, vibro-acoustic and physicochemical measurements.

NICPV carries out tests and quality surveillance of production in science intensive technologies and industries with the purpose of conformity assessment.

The research facilities of NICPV include standards and high-accuracy apparatuses for length measurement in micro- and nano-meter ranges.



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## SLOVAKIA

**Area:** 49.035 thousand km<sup>2</sup>

**Population:** 5.42 million

**Capital:** Bratislava

**Time zone:** UTC+1

**National currency:** euro

### 1. The institution responsible for national and other measurement standards and the scientific metrology in Slovakia is the Slovak Institute of Metrology (SMU)

The Slovak Institute of Metrology (SMU) has been established in 1968 as a National Czechoslovak Institute of Metrology and has more than 47 years of experience. SMU fulfils tasks as the national metrology institution (NMI) for the Slovak Republic since 1<sup>st</sup> of January 1993. At the present time SMU is subsidised organization of the SOSMT. SMU realises research and development in metrology, ensures the tasks of international cooperation in metrology and represents the Slovak Republic in international metrology organisations, ensures the maintenance and international comparison of the national standards of the Slovak Republic and the traceability given to these standards, coordinates the procedures of national standards approval and certified reference materials and specify the tasks and competence of the Institute in legal metrology. (<http://www.smu.sk/>)

**Director General: Mr. Roman Kováč**

**Address:** Karloveská 63, 842 55 Bratislava, Slovak Republic

**Telephone:** +421 2 602 94 600

**E-mail:** [takacova@smu.gov.sk](mailto:takacova@smu.gov.sk)

### 2. The institutions responsible for legal metrology are:

**Slovak Office of Standards, Metrology and Testing (SOSMT)** as the central steering body of the state administration in the field of metrology.

The main tasks and activities of the UNMS in the field of metrology are:

- elaboration and realisation of the state policy in metrology;
- preparation of legislative and legal rules (acts and decrees) referring to metrology, standardisation and testing;
- steering of metrology in the state in the scope given by the Act on Metrology, including subordinate metrology institutions (Slovak Institute of Metrology (SMU), Slovak Standards Institute (SUTN), Technical Testing Institute (TSU), Slovak Legal Metrology (SLM), Slovak National Accreditation Service (SNAS) and Slovak Metrology Inspectorate (SMI));
- methodical supervision of metrological activities.

(<http://www.unms.sk/>)

**President of UNMS: Ms. Lucia Gocníkova**

**Address:** Štefanovičova 3, P.O. Box 76, 810 05 Bratislava, Slovak Republic

**Telephone:** +421 2 5249 6847, 8030

**Fax:** +421 2 5249 1050

**E-mail:** [predseda@normoff.gov.sk](mailto:predseda@normoff.gov.sk)

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

**Slovak Legal Metrology (SLM)**, non-profit organisation, the SLM is charged with the following main activities:

- verification of legally controlled measuring instruments;
- calibration of reference and working standards for industry;
- calibration of ordinary measuring instruments for customers;
- carrying out of pattern evaluation of measuring instruments;
- carrying out of interlaboratory comparisons.

(<http://www.slm.sk/>)

**Director General: Dr. Jaromír Markovič**

**Address:** 31 Hviezdoslavova, 975 90 Banská Bystrica, Slovak Republic

**Telephone:** +421 48 4719122

+421 48 4719125

**Fax:** +421 48 4719158

**E-mail:** [markovic@slm.sk](mailto:markovic@slm.sk)

**Slovak Metrology Inspectorate (SMI)** – a subordinate institution of the UNMS.

Its main task is to perform the state metrology supervision over the compliance with the Law on Metrology and Decrees and supervision over measuring instruments and measurements in the Slovak Republic.

(<http://www.smi.sk/>)

**Director:** **Mr. Ľudovít Koppan**

**Address:** Štefanovičova 3, 811 04 Bratislava, Slovak Republic

**Telephone:** +421 2 5262 2722, 2723

**Fax:** +421 2 455 25 473

**E-mail:** [smi@normoff.sk](mailto:smi@normoff.sk)

Other institutions in the field of legal metrology are authorised bodies. These institutions are authorised by the UNMS SR for verification of specified types of legally controlled measuring instruments.

**Slovak National Accreditation Service (SNAS)**

(<http://www.snas.sk/>)



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## TAJIKISTAN

**Area:** 143.1 thousand km<sup>2</sup>

**Population:** 7 million

**Capital:** Dushanbe

**Time zone:** UTC+5

**National currency:** samoni

Legal basis of maintenance of unity of measurements and the state metrological system is Constitution of Republic of Tajikistan, Law of Republic of Tajikistan "About maintenance of unity of measurements" No. 435 from May, 15<sup>th</sup>, 1997 (changes and additions No. 321 from July, 30<sup>th</sup>, 2007, No. 467 from December, 31<sup>st</sup>, 2008), and also other regulatory legal acts of Republic of Tajikistan.

The metrological service of Republic of Tajikistan consists of the State metrological service and metrological services of legal bodies.

The state metrological service is headed by Agency Tajikstandard and includes in itself:

- Bodies of the State metrological service in Gorno-Badakhshansky autonomous region, republic areas, areas of republican submission and a city of Dushanbe.

The structure of the State metrological service includes 11 regional centers of Tajikstandard.

Activity on maintenance of functioning and development of the State metrological system carries out by **Agency on Standardization, Metrology, Certification and Trade Inspection under the Government of the Republic of Tajikistan (Tajikstandard)**.

**Director:** Mr. Bakhtiyor Shukurov  
**Address:** 734018, Dushanbe, N. Karabaev Str., 42/2  
**Phone:** +992 37 233 68 69  
**Fax:** +992 37 234 19 33  
**E-mail:** info@standard.tj

The competence of Tajikstandard concern:

- The organization of carrying out of basic researches in the field of metrology;

- The organization of creation and functioning of reference base;
- Definition of the general metrological requirements to means of measuring techniques, methods and results of measurements;
- The statement of types of measuring apparatuses;
- Definition of the general requirements concerning an order of carrying out of calibration and metrological certification of means of measuring techniques, working out of statutory acts, programs etc.;
- Inter-regional and inter-branch coordination of activity on maintenance of unity of measurements;
- Establishment of rules of creation, the statement, storage and application of the state standards of units of sizes;
- Definition of the general metrological requirements to means, methods and results of measurements;
- Realization of the state metrological control and supervision;
- A management of activity of the state metrological service and other metrological services of maintenance of unity of measurements;
- Participation in activity of the international metrological organizations.

The international cooperation of Tajikstandard in the field of metrology is carried out in frameworks:

- International Organization for Legal Metrology (OIML);
- Interstate Council for Standardization, Metrology and Certification (EASC);
- Inter-Regional Association for Standardization (IAS).



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## TURKEY

**Area:** 783.5 thousand km<sup>2</sup>

**Population:** 76 million

**Capital:** Ankara

**Time zone:** UTC+3

**National currency:** Turkish lira

TÜBİTAK Ulusal Metroloji Enstitüsü (TÜBİTAK UME), as the National Metrology Institute of Turkey, is responsible for the establishment and maintenance of national measurement standards as well as research and development activities in scientific metrology in Turkey

TÜBİTAK National Metrology Institute (TÜBİTAK UME) is a research and development institute that operates under the umbrella of the Scientific and Technological Research Council of Turkey (TÜBİTAK), which is an affiliated institution of the Ministry of Science, Industry and Technology.

The institute aims to ensure the reliability of all measurements conducted in Turkey, to make provisions for the integration of these measurements into the international system and to develop existing and new measurement technologies, thereby establishing the national measurement system required for ensuring the accuracy of measurements used in commercial and industrial settings and which contributes to equity in national and international trade, increases in the quality of Turkish industrial products and enhances Turkey's scientific and technological development.

The main activities of TÜBİTAK UME can be summarized as follows:

- To establish and maintain national measurements standards in accordance with the SI Units.
- To ensure the traceability of national measurement standards to international standards and to disseminate traceability nationally through the provision of calibration services
- To support the other elements of the national measurement system through the provision of training, consultancy services, publications and other mechanisms and the organization of measurement inter-comparisons and proficiency

testing schemes.

- To produce and distribute certified reference materials to ensure the traceability of chemical measurements in Turkey
- To contribute to research and development in the areas of measurement techniques, calibration and measurement technologies at the international level.
- To represent Turkey at an international level in the field of metrology and to cooperate with international organizations and other national metrology institutes in order to fulfill the requirements of the Metre Convention and the CIPM Mutual Recognition Arrangement (CIPM MRA)

Under the terms of the CIPM Mutual Recognition Arrangement, TÜBİTAK UME has designated the Turkish Atomic Energy Agency (TAEK) to carry out the responsibility for establishing measurement standards and scientific metrology activities in the area of Ionizing Radiation. Similarly, the Marmara Research Center, Materials Institute - Underwater Acoustics Laboratory (MRC MI-UAL) has been designated in the area of underwater acoustics.

**Director of TÜBİTAK UME:** Dr. Mustafa Çetintaş

**Address:** TÜBİTAK Gebze Yerleşkesi

Baris Mah., Dr. Zeki Acar Cad. No. 1  
41470 Gebze Kocaeli, Turkey

**Telephone:** +90 262 679 5000

**Fax:** +90 262 679 5001

**E-mail:** [ume@tubitak.gov.tr](mailto:ume@tubitak.gov.tr)

**Website:** [www.ume.tubitak.gov.tr](http://www.ume.tubitak.gov.tr)

The General Directorate for Metrology and Standardization (GDMS) under the Ministry of Science, Industry and Technology (MSIT) is the authority for legal metrology in Turkey.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

The General Directorate for Metrology and Standardization's duties were specified in the Decree Law on the Organization and Duties of the Ministry of Science, Industry and Technology published in the Official Gazette no. 27598 dated 08/06/2011. The general framework for legal metrology activities is provided by the Law No. 3516 on Measures and Standards that went into effect on 21/01/1989.

GDMS operates 7 regional metrology laboratories and 81 provincial verification bureaus. It is responsible for setting policy in the areas of legal metrology and standardization, specifying and applying mandatory standards and technical regulations in legal metrology and pre-packaging, conducting market surveillance and controls, designating and maintaining oversight of conformity assessment bodies and notified bodies in accordance with EU directives, control of measurement instruments used in trade, and the operation and supervision of public and private legal metrology laboratories. The practice of legal

metrology in Turkey has undergone significant change in recent years as technical regulations have been harmonized with the EU within the scope of the ongoing membership negotiations with Turkey. Within this context, the GDMS has been responsible for the implementation of the Non-Automatic Weighing Instruments and Measurement Instruments Directives (NAWI and MID) of the EU.

**General Director of GDMS:** Mr. Mehmet Karaoğlu

**Address:** Ministry of Science, Industry and Technology

Mustafa Kemal Mah., Dumlupınar Bulvarı  
2151. Cadde No. 154

06510 Cankaya Ankara, Turkey

**Telephone:** +90 312 231 7280

**Fax:** +90 312 231 1694

**E-mail:** mehmet.karaoglu@sanayi.gov.tr





# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## UKRAINE

**Area:** 603.7 thousand km<sup>2</sup>

**Population:** 45.8 million

**Capital:** Kyiv

**Time zone:** UTC+2

**National currency:** hryvna

The legal basis of the metrology system of Ukraine is the Law "On metrology and metrological activity".

The metrology system of Ukraine includes:

- National Metrology Service;
- legal and regulatory framework, including legislative acts, technical regulations and other legal and regulatory acts that govern the relations in the field of metrology and metrological activity;
- National Standards Base and the system of transferring the sizes of the units of measurement;
- system of voluntary accreditation of calibration laboratories, as well as the system of accreditation of testing laboratories and conformity assessment bodies;
- educational institutions, scientific and research institutions and organizations that disseminate knowledge and experience in the field of metrology and metrological activity.

**The National Metrology Service includes:**

- central executive body that ensures the formation of the state policy in the field of metrology and metrological activity;
- central executive body that realizes the state policy in the field of metrology and metrological activity;
- central executive body that realizes the state policy in the field of metrological supervision;
- scientific metrology centres;
- state enterprises in the field of the Ministry of Economic Development and Trade of Ukraine – metrology centers;
- State Service of Universal Time and Reference Frequencies;
- State Service of Reference Materials of Composition and Properties of Substances and Materials;
- State Service of Reference Data on Physical Constants and Properties of Substances and Materials;
- metrology services of the central executive

bodies, other state bodies, enterprises and organizations;

- bodies of conformity assessment of measuring instruments and verification laboratories.

All the activities on ensuring the functioning and development of metrology system are coordinated by the **Ministry of Economic Development and Trade of Ukraine**.

**Minister of Economic Development and Trade of Ukraine:** **Mr. Mr. Stepan Kubiv**

**Address:** 12/2 Grushevskogo Str., Kyiv, 01008, Ukraine

**Telephone:** +38 044 528 92 27

**Fax:** +38 044 528 90 14

**E-mail:** dtr@me.gov.ua, tn timer@me.gov.ua

**Web:** www.me.gov.ua

One of the activities of the Ministry of Economic Development and Trade of Ukraine is to provide the development and realization of the state policy in the field of technical regulation (standardization, metrology, certification, conformity assessment (confirmation), accreditation of conformity assessment bodies, quality management), including:

- provision of statutory regulation in the field of metrology and metrological activity;
- organization of conducting the fundamental researches in the field of metrology;
- provision of maintenance and improvement of the National Standards Base;
- development or participation in the development of the state scientific and scientific-technical programs related to ensuring the uniformity of measurements;
- representation and participation of Ukraine in the activities of international, European and other regional metrology organizations;
- exercising of other powers established by the laws and imposed on it by the acts of the Cabinet of Ministers of Ukraine.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## SCIENTIFIC METROLOGY CENTRES

### National Scientific Centre “Institute of Metrology” (NSC “IM”)

**General Director:** Prof., Dr. Pavel Neyezhnikov

**Address:** 42 Mironositskaya Str., Kharkiv-2,  
61002, Ukraine

**Telephone:** +38 057 700 34 09

**Fax:** +38 057 700 34 47

**E-mail:** [info@metrology.kharkov.ua](mailto:info@metrology.kharkov.ua)

NSC “Institute of Metrology”:

- carries out the fundamental scientific and applied scientific researches in the field of metrology;
- participates in the development of state programs on metrology, concepts of these programs and the concept of development of metrology system in Ukraine;
- carries out the research and development works related to the creation, improvement, maintenance, comparison, use of the national standards, the establishment of the systems of transferring the sizes of the units of measurements (providing metrological traceability with account for the needs of the national economy and international experience);
- participates in the drafting of technical regulations of other legal and regulatory acts, as well as the normative documents in the field of metrology and metrological activity;
- performs functions of the Head Center of the Service of Universal Time and Reference Frequencies;
- performs functions of the scientific and methodological center of the Service of Reference Materials of Composition and Properties of Substances and Materials;
- coordinates the scientific and metrological activity related to the measurements and calculations of time in the territory of Ukraine;
- provides intersectional coordination and scientific-methodological support on works on the development and use of reference materials of composition and properties of substances and materials;
- performs the works on conformity assessment of legally regulated measuring instruments to the technical regulations in case of its appointment as a conformity assessment body;

- carries out the verification of legally regulated measuring instruments in operation according to the respective types and subtypes of measurements, which have internationally recognized calibration and measurement capabilities, and/or with the use of national standards, provided the empowerment to carry out the verification of the relevant measuring instruments;
- maintains and uses the national standards of the units of physical quantities in the types and subtypes of measurements assigned to it;
- carries out the calibrations of measuring instruments used in and/or out of the field of legally regulated metrology;
- carries out the measurements in the field of legally regulated metrology;
- develops measurement, verification and calibration techniques;
- provides the management of the information fund of national standards and reference materials appropriate for use in verification of legally regulated measuring instruments;
- provides cooperation with the international metrology organizations;
- ensures the activity of the national secretariats of international, intergovernmental and regional metrology organizations: CGPM, EASC, COOMET, EURAMET.

### The State Enterprise “All-Ukrainian State Research and Production Center for Standardization, Metrology, Certification and Consumers' Rights Protection” (SE “Ukrmetrteststandard”)

**General Director:** Mr. Dmitry Sabatovich

**Address:** 4 Metrologichna Str., Kyiv, 03680,  
Ukraine

**Telephone:** +38 044 526 52 29

**Fax:** +38 044 526 42 60

**E-mail:** [ukrcsm@ukrcsm.kiev.ua](mailto:ukrcsm@ukrcsm.kiev.ua)

SE “Ukrmetrteststandard”:

- is the Head Centre of Metrology Service of Ukraine;
- is the scientific and methodological center of the Service of Reference Data on Physical Constants and Properties of Substances and Materials;

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

- provides the management of the register of approved types of measuring instruments of Ukraine;
- participates in the development of state programs on metrology, concepts of these programs and the concept of development of metrology system in Ukraine;
- carries out the research and development works related to the creation, improvement, maintenance, comparison, use of the national standards, the establishment of the systems of transferring the sizes of the of units of measurements (providing metrological traceability with account for the needs of the national economy and international experience);
- participates in the drafting of technical regulations of other legal and regulatory acts, as well as the normative documents in the field of metrology and metrological activity;
- performs the works on conformity assessment of legally regulated measuring instruments to the technical regulations as a conformity assessment body;
- carries out the verification of legally regulated measuring instruments in operation;
- maintains and uses the national standards of the units of physical quantities in the types and subtypes of measurements assigned to it;
- carries out the calibrations of measuring instruments used in and/or out of the field of legally regulated metrology;
- carries out the measurements in the field of legally regulated metrology;
- develops measurement, verification and calibration techniques;
- provides the management of the information fund of national standards and reference materials appropriate for use in verification of legally regulated measuring instruments;
- provides cooperation with the international metrology organizations;
- ensures the activity of the national secretariat of International Organizations of Legal Metrology OIML.

## **The State Enterprise “Scientific-Research Institute for Metrology of Measurement and Control Systems” (DP NDI “Systema”)**

**Director:** Dr. Vasiliy Parakuda

**Address:** 6 Kryvonosa Str., Lviv, 79008, Ukraine

**Telephone:** +38 0322 72 89 39

**Fax:** +38 0322 35 84 49

**E-mail:** [office@dndi-systema.lviv.ua](mailto:office@dndi-systema.lviv.ua)

DP NDI “Systema”:

- carries out fundamental and applied research in the field of acoustic, hydroacoustic and ultrasonic measurements related to the creation, enhancement, storage and application of national standards, the establishment of the size of the transmission systems of measurement units;
- coordinates and carries out scientific-methodical support of works on maintenance of unity of measurements in the field of acoustic measurements;
- coordinates the scientific and metrological activities relating to metrological support of measurement and control systems;
- serves as the secretariat of the National Technical Committee for Standardization in the field of quality management;
- participates in the drafting of technical regulations of other legal acts and normative documents in the field of metrology and metrological activity;
- performs conformity assessment legally regulated funds measuring technique with the technical regulations in the appointment of its conformity assessment body;
- carries out research and development work related to the creation, storage, operation and improvement of national standards of Ukraine;
- carries out verification of legally controlled measuring devices, in service and the respective types of measurements subspecies the use of national standards, provided authorize to conduct verification of the relevant assets;
- carries out calibration of measuring instruments used in the field and/or outside the scope of legally regulated metrology;
- cooperates with international organizations on metrology.

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

**The State Enterprise “Ivano-Frankivsk Scientific and Production Center for Standardization, Metrology and Certification” (SE “Ivano-Frankivskstandartmetrology”)**

**General Director:** Dr. Ivan Saevykh

**Address:** 127, Vovchynetska Str.,  
Ivano-Frankivsk, 76007, Ukraine

**Telephone:** +38 03422 6 68 84

**Fax:** +38 03422 3 02 00

**E-mail:** [dcsms@if.ukrtel.net](mailto:dcsms@if.ukrtel.net)

**Website:** <http://www.ifdcsms.com.ua>

SE “Ivano-Frankivskstandartmetrology”:

- carries out the fundamental scientific researches in the field of metrology, as well as the works related to the development and implementation of the state programs on metrology and conception of development of the metrological system of Ukraine in the field of measurements of gas volume and volume flow rate;
- carries out the applied scientific researches and scientific research works related to the creation,

improvement, maintenance, comparison, and use of the national primary and secondary standards, the establishment of the systems of transferring the sizes of the units of measurements;

- coordinates and carries out the scientific-methodological support of works on maintenance of uniformity of measurements in the field of measurements of gas volume and volume flow rate;
- carries out the conformity assessment of the measuring instruments;
- carries out the calibrations and verifications of the measuring instruments;
- carries out the measurements in the field of legally regulated metrology;
- provides the management of the information fund in the field of measurements of gas volume and volume flow rate;
- participates in the international cooperation on the measurements of gas volume and volume flow rate.



# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES



## UZBEKISTAN

**Area:** 447.4 thousand km<sup>2</sup>

**Population:** 30.5 million

**Capital:** Tashkent

**Time zone:** UTC+5

**National currency:** sum

The legal basis of the system for assuring the uniformity of measurements of the Republic of Uzbekistan (SAUM) was laid down in 1993 in the Law on Metrology and in the Directive of the Government of the Republic of Uzbekistan. The organizational structure of the SAUM is represented by:

- the State Metrology Service;
- metrological service of legal persons.

The State Metrology Service is headed by **Uzbek Agency for Standardization, Metrology and Certification ("UZSTANDARD" Agency)**.

**General Director: Mr. Abdusalam Kurbanov**

**Address:** 333"A" Farobiy Str., 100049,  
Republic of Uzbekistan

**Telephone:** 998 71 242-94-93

**Fax:** 998 71 246-17-63, 246-18-20

**E-mail:** [uzst@standart.uz](mailto:uzst@standart.uz)

**The state metrological service headed by "Uzstandard" Agency includes:**

- the State Institution "Centre of National Standards of Republic of Uzbekistan";
- the State Enterprise "Centre of Metrological Services";
- Scientific Research Institute of Standardisation, Metrology and Certification;
- the Main Centre of Metrological Service;
- the Main Centre of Reference Materials;
- the Main Centre for Non-destructive Testing;
- territorial (Karakalpak, regional and city) administrations of standardisation and metrology.

**Major branches of activities are as follows:**

- maintenance of the common policy on the matters regarding the assurance of the uniformity of measurements, as well as

coordination of the implementation and development of the SAUM;

- development of legal and other directives aiming at assuring the uniformity of measurements; definition of priorities in improving metrology;
- organisation of the development and approval of national standards and other normative documents regulating the implementation of the SAUM;
- organisation of the publication and dissemination of normative documents and scientific-technical information in the field of metrology;
- type approval of imported and domestically produced measuring instruments;
- organisation and performance of metrological surveillance over measuring instruments and implementation of metrological directives pertaining to measurements in the field of distribution of the state metrological supervision and control;
- coordination of cooperation in the field of metrology and laboratory accreditation at the international level; representation of the Republic of Uzbekistan in the international metrology organisations and collaboration with national metrology of other countries.

The leading organisation in the field of developing and maintaining measurement standards is **the State Institution "Centre of National Standards of Republic Uzbekistan"**.

**Director:** **Dr. Khikmat Makhmudov**

**Address:** 333"B" Farobiy Str., 100049,  
Republic of Uzbekistan

**Telephone:** 998 71 246 70 06

**Fax:** 998 71 150 35 08

**E-mail:** [nscenter@standart.uz](mailto:nscenter@standart.uz)

# METROLOGY INFRASTRUCTURES OF COOMET MEMBER COUNTRIES

## The major activities are as follows:

- coordination and performance of fundamental and practical research with the purpose of assuring the uniformity of measurements;
- development, maintenance and comparison of national measurement standards;
- reproduction of measurement units and their dissemination to measurement standards at the level of metrology services;
- development of a uniform scientific-technical policy in the field of metrology and assurance of the uniformity of measurements;
- development of normative and methodological documents in the field of metrology;
- carrying out of state type approval tests, state verification, calibration and metrological evaluation of measuring instruments and other metrology related work;
- maintenance of the state register of national and primary measurement standards;
- carrying out of metrological evaluation of measurement procedures;
- participation in the cooperation projects in the field of metrology at regional and international levels as a National Metrology Institute;
- participation in training and improving of professional skills of personnel engaged in metrology activities.

The structure of the State Metrology Service includes also metrological departments of **14 territorial administrations of standardisation and metrology and the Republican Centre of Tests and Certification.**

**Scientific Research Institute for Standardization, Metrology and Certification (SRISMC)**

**Director:** Dr. Karim Utaev

**Address:** 9 "B", Chopon Ota str., 100059,  
Tashkent city,  
Republic of Uzbekistan

**Telephone:** 998 71 253 85 67

**Fax:** 998 71 253 85 55

**E-mail:** [info@smsiti.uz](mailto:info@smsiti.uz)  
[smsiti@mail.ru](mailto:smsiti@mail.ru)

## The major activities are as follows:

- rendering of the methodical help to the organization and perfection of metrological services of the enterprises and organizations, analytical laboratories, services of working out of standard samples and nondestructive inspection;
- working out of documents on the pattern approval of metrological attestation, checking of measuring instruments;
- attestation of methods for carrying out measurements, including working out of the necessary documents package;
- preparation of the analytical control services for accreditation;
- rendering of the methodical and practical help in working out and manufacturing of standard samples;
- metrological examination of normative and technical documents;
- examination of documents on imported standard samples for the purpose of their admission to application in Uzbekistan territory;
- marketing researches in the field of standard samples;
- preparation of the nondestructive inspection services for accreditation;
- attestation of nondestructive inspection techniques;
- independent, from the state metrological surveillance services, audit of a condition of metrological maintenance of manufactures and the enterprises.



# ADDITIONAL INFORMATION

## COOMET PUBLICATIONS

### COOMET DOCUMENTS

No.	Name of Document	Registration Number	Remarks
1.	<b>COOMET Memorandum of Understanding</b>	<u><b>COOMET D1/2012</b></u>	
2.	<b>COOMET Rules of Procedure</b>	<u><b>COOMET D2/2013</b></u>	
3.	<b>Memorandum</b> on cooperation in development and application of reference materials of composition and properties of substances and materials within COOMET	<u><b>COOMET D3/2008</b></u>	Project 381/BY/07
4.	<b>Document</b> COOMET Publications. Classification, Development, Approval and Registration. General Provisions	<u><b>COOMET D4/2003</b></u>	Project 264/BY-a/02
5.	<b>Document</b> Model Regulations for COOMET Structural Bodies	<u><b>COOMET D5/2010</b></u>	
6.	<b>Document</b> Procedure for Maintaining COOMET Website. General Provisions	<u><b>COOMET D6/2013</b></u>	
7.	<b>Document</b> Regulation on Awarding the Distinguished Title “Honorary Metrologist of COOMET”	<u><b>COOMET D7/2013</b></u>	
8.	<b>Document</b> Criteria and Procedure of Admission for New COOMET Members	<u><b>COOMET D8/2006</b></u>	
9.	<b>Document</b> COOMET Programme of Comparisons	<u><b>COOMET D9/2013</b></u>	
10.	<b>Document</b> COOMET Web Portal. General Provisions and maintenance	<u><b>COOMET D10/2013</b></u>	Project 500/UA-a/10
11.	<b>Document</b> The Procedure of Using the COOMET Logo	<u><b>COOMET D11/2016</b></u>	

### COOMET RECOMMENDATIONS

No.	Name of Recommendation	Registration Number	Remarks
1.	<b>Recommendation</b> Typical Procedure for Testing Vibration-Measuring Transducers (Vibration Pick-Ups)	<u><b>COOMET R/AUV/1:1995</b></u>	Project 49/RU-a/92
2.	<b>Recommendation</b> Interstate Hierarchical Chain for Time and Frequency Measuring Instruments	<u><b>COOMET R/TF/2:1995</b></u>	Project 16/RU-a/92
3.	<b>Recommendation</b> Requirements to Time and Frequency Measuring Equipment Produced by the COOMET Member Countries Required for Mutual Recognition of the Results of National Metrological Verifications and Certifications	<u><b>COOMET R/TF/3:1995</b></u>	Project 16/RU-a/92
4.	<b>Recommendation</b> Order of Joint Development, Recognition and Registration of Reference Materials within COOMET	<u><b>COOMET R/RM/4:2008</b></u>	Project 132/RU-a/95
5.	<b>Recommendation</b> Contents and Rules of Drawing Up Documents for RM Developed within COOMET	<u><b>COOMET R/RM/5:2010</b></u>	Project 414/UA/08
6.	<b>Recommendation</b> Register of Reference Materials of Composition and Properties of Substances and Materials Developed within COOMET. Fundamentals	<u><b>COOMET R/RM/6:1910</b></u>	Project 413/KZ/07
7.	<b>Recommendation</b> Procedure of Inner Inter-Regional Review of Calibration and Measurement Capabilities of COOMET National Metrology Institutes and Inter-Regional Review of Institutes of Other Regional Metrology Organisations	<u><b>COOMET R/GM/7:2006</b></u>	
8.	<b>Recommendation</b> Layout, Presentation, Drawing Up and Contents of Measuring Instrument Type Specifications for National Register of Measuring Instruments	<u><b>COOMET R/LM/8:2002</b></u>	Project 207/BY/00

# ADDITIONAL INFORMATION

## COOMET PUBLICATIONS

### COOMET RECOMMENDATIONS

No.	Name of Recommendation	Registration Number	Remarks
9.	<b>Recommendation</b> Evaluation of Quality Management Systems of National Metrology Institutes <b>Annex 1</b> Criteria for approval of Quality Management Systems in COOMET NMIs <b>Annex 2 A</b> "Recommendations on carrying out an oral presentation at the COOMET Quality Forum of Quality Management System of National Metrology Institutes (QMS NMI)" <b>Annex 3 B</b> "Recommendations on carrying out a written presentation of Quality Management System of National Metrology Institutes (QMS NMI)" <b>Annex 4</b> Status of the experts-auditors on the Evaluation of QMS of NMI	<b>COOMET</b> <b>R/AQ/9:2010</b> <b>Annex 1</b> <b>Annex 2</b> <b>Annex 3</b> <b>Annex 4</b>	Project 230/SK/01
10.	<b>Recommendation</b> Software for Measuring Instruments. General Technical Specifications	<b>COOMET</b> <b>R/LM/10:2004</b>	
11.	<b>Recommendation</b> Regulations for Comparison of Measurement Standards from the National Metrology Institutes of COOMET	<b>COOMET</b> <b>R/GM/11:2010</b>	
12.	<b>Recommendation</b> Rules of Maintaining of Foregoing COOMET Programme of Comparisons	<b>COOMET</b> <b>R/GM/12:2007</b>	
13.	<b>Recommendation</b> Rules and Procedure of Assessment of Quality Management Systems of National Metrology Institutes <b>Annex A</b> Recommendations on carrying out an oral presentation at the COOMET Quality Forum of Quality Management System of National Metrology Institutes (QMS NMI) <b>Annex B</b> Recommendations on carrying out a written presentation of Quality Management System of National Metrology Institutes (QMS NMI) <b>Annex 1</b> Application of the NMI to conduct peer evaluation (Annex 1) <b>Annex 2</b> Schedule of realization of QMS NMI peer evaluation <b>Annex 3</b> JCRB Recommendations for selection criteria for peers conducting on-site visits and guide to the need for on-site visits <b>Annex 4</b> Plan of realization QMS NMI evaluation <b>Annex 5</b> Protocols of non-conformities <b>Annex 6</b> Forms of technical expert and auditor reports on QMS NMI evaluation <b>Annex 7</b> Form of a report on conduction of peer evaluation of QMS NMI <b>Annex 8</b> Action plan for removing of non-conformities <b>Annex 9</b> Certificate on recognition of QMS NMI <b>Annex 10</b> Form of an annual report on the state of QMS NMI <b>Annex 11</b> Recommendations on a drawing-up an annual report <b>Annex 12</b> Form of annual report of QMS NMI monitoring <b>Annex 13</b> A recommended questionnaire of a technical expert on evaluation of QMS NMI <b>Annex 14</b> A recommended questionnaire of a technical expert on evaluation of QMS NMI on conformity thereof with requirements of ISO/IEC 17025 <b>Annex 15</b> A recommended questionnaire of a technical expert on evaluation of QMS NMI on conformity thereof with requirements of ISO guide 34	<b>COOMET</b> <b>R/AQ/13:2010</b> <b>Annexes A</b> <b>Annexes B</b> <b>Annexes 1-15</b>	Project 230/SK/01
14.	<b>Recommendation</b> Guidelines for Data Evaluation of COOMET Key Comparisons	<b>COOMET</b> <b>R/GM/14:2016</b>	Project 336/RU/06



# ADDITIONAL INFORMATION

## COOMET PUBLICATIONS

### COOMET RECOMMENDATIONS

No.	Name of Recommendation	Registration Number	Remarks
15.	<b>Recommendation</b> Rules of Completing the Form of Calibration Certificates Issued by National Metrology Institutes within the CIPM MRA	<u>COOMET R/GM/15:2007</u>	
16.	<b>Recommendation</b> Recommendation for Acceptance of Certified Reference Materials into Appendix C of the CIPM MRA	<u>COOMET R/RM/16:2007</u>	Project 290/RU-a/03
17.	<b>Recommendation</b> Guidelines for Issuing Certificate of Participant of COOMET CRM Interlaboratory Certification	<u>COOMET R/RM/17:2011</u>	Project 349/BY-a/05 496/BY-a/10
18.	<b>Recommendation</b> Procedure of the International Competition "The Best Young Metrologist of COOMET"	<u>COOMET R/GM/18:2010</u>	
19.	<b>Recommendation</b> Guideline on COOMET supplementary comparison evaluation	<u>COOMET R/GM/19:2016</u>	
20.	<b>Recommendation</b> State system for ensuring the uniformity of measurements. Scales of Measurements. Terms and Definitions	<u>COOMET R/GM/20:2009</u>	
21.	<b>Recommendation</b> Use of concepts "error of measurement" and "uncertainty of measurement". General principles materials	<u>COOMET R/GM/21:2011</u>	
22.	<b>Recommendation</b> Form and content of COOMET certificate for reference materials for composition and properties of substances and materials	<u>COOMET R/RM/22:2013</u>	
23.	<b>Recommendation</b> "PROCEDURE of organization and publishing the data about calibration and measuring services of COOMET national metrological institute on COOMET web resources"	<u>COOMET R/GM/23:2014</u>	Project 404/RU-a/07
24.	<b>Recommendation</b> "Educational programs and practical training programs of experts of National Metrological Institutes cooperating in COOMET"	<u>COOMET R/IT/24:2014</u>	Project 541/RU-a/11
25.	<b>Recommendation</b> "Procedure for recognizing technical devices as measuring instruments"	<u>COOMET R/LM/25:2015</u>	Project 523/BY/11
26.	<b>Recommendation</b> "GENERAL REQUIREMENTS FOR THE COMPETENCE OF VERIFICATION LABORATORIES"	<u>COOMET R/LM/26:2015</u>	
27.	<b>Recommendation</b> "Procedure for preparing certificates of training, study visits and up-skilling within the framework of COOMET"	<u>COOMET R/IT/27:2015</u>	
28.	<b>Recommendation</b> "Standard program for testing the software of measuring instruments"	<u>COOMET R/LM/28:2016</u>	
29.	<b>Recommendation</b> "The Content and Procedure of Work on Reference Material Comparison within COOMET"	<u>COOMET R/RM/29:2016</u>	
30.	<b>Recommendation</b> "Procedure for completing the Form of COOMET database for COOMET reference materials"	<u>COOMET R/RM/30:2016</u>	
31.	<b>Recommendation</b> "Calibration techniques. General requirements"	<u>COOMET R/GM/31:2016</u>	

# ADDITIONAL INFORMATION

## COOMET PUBLICATIONS

### COOMET PROGRAMS

No.	Name of Program	Registration Number	Remarks
1	<b>COOMET PROGRAM</b> COOMET DEVELOPMENT PROGRAMME FOR 2014–2016	<u>COOMET P1/2014</u>	
2	<b>COOMET PROGRAM</b> PROGRAM OF COMPARISONS (2016-2017)	<u>COOMET P2/2017</u>	
3	<b>COOMET PROGRAM</b> TC 2 WORK PROGRAM for 2016	<u>COOMET P3/2016</u>	
4	<b>COOMET PROGRAM</b> WORK PROGRAM of TC 4 “Information and Training” for 2015-2017	<u>COOMET P4/2015</u>	
5	<b>COOMET PROGRAM</b> PROGRAMME OF JOINT CRM DEVELOPMENT WITHIN COOMET (01.06.2014)	<u>COOMET P5/2014</u>	Project 186/RU/99

### COOMET INFORMATIONAL MATERIALS

No.	Name of Informational Material	Registration Number	Remarks
1.	Normative Documents Regulating the Questions of RM Production and Use, Analytical Overview (based on information provided by COOMET contact persons for RM)	<u>COOMET I/RM/1:2001</u>	Project 185/RU/99
2.	Register of Certified Reference Materials of Composition and Properties of Substances and Materials Developed within COOMET	<u>COOMET I/RM/2:2014</u>	TC 1.12 Secretariat is maintaining and updating the Register
3.	Survey of Technical Requirements in the Field of Legal Metrology in COOMET Member Countries	<u>COOMET I/LM/3:2003</u>	
4.	Analysis of the Problem of Introduction of the Guide to the Expression of Uncertainty in Measurement in COOMET Member Countries	<u>COOMET I/GM/4:2005</u>	
5.	Analysis of Cooperation Projects within APLMF and Preparation of Proposals for Cooperation of COOMET with this RMO in the Field of Legal Metrology	<u>COOMET I/LM/5:2005</u>	Project 307/RU-a/04
6.	Review National Educational Systems in the Field of Metrology in COOMET Member Countries	<u>COOMET I/TR/6:2005</u>	
7.	Methodology for uncertainty evaluation of measurement results obtained by data processing software	<u>COOMET I/IT/7:2016</u>	

# ADDITIONAL INFORMATION

## COOMET COMMITTEE MEETINGS

No.	Date	Country and City	Participants (representatives of national, international and regional organisations)
1	13–14 November, 1991	POLAND (Warsaw)	BG, CS, CU, DE, HU, PL, RO, SU
2	2–3 June, 1992	POLAND (Warsaw)	BG, CS, CU, DE, HU, PL, RO, RU, UA
3	17–19 March, 1993	GERMANY (Berlin)	BG, BY, DE, PL, RO, RU, SK, UA, LT, BIML, EURAMET
4	19–20 April, 1994	SLOVAKIA (Bratislava)	BG, BY, DE, PL, RO, RU, SK, UA, LT, BIML
5	4–5 April, 1995	SLOVAKIA (Bratislava)	BG, BY, DE, PL, RO, RU, SK, UA, HU, CZ, BIPM, EURAMET, BIML
6	10–12 April, 1996	BULGARIA (Sofia)	BG, BY, DE, LT, PL, RO, RU, SK, UA, BIPM, BIML, EURAMET, WELMEC
7	23–25 April, 1997	GERMANY (Braunschweig)	BY, BG, DE, LT, PL, RO, RU, SK, UA, MD, EE; BIML, EURAMET, WELMEC
8	12–13 May, 1998	BELARUS (Minsk)	BY, BG, DE, LT, MD, PL, RU, SK, UA BIPM, STC
9	12–13 May, 1999	RUSSIA (Moscow)	BY, BG, DE, KZ, LT, MD, PL, RU, SK, UA
10	25–26 May, 2000	KAZAKHSTAN (Almaty)	BY, DE, KZ, KG, CU, MD, PL, RU, SK, UA, YU, UZ
11	25–26 April, 2001	MOLDOVA (Chisinau)	BY, DE, KZ, KG, LT, CU, MD, RU, RO, SK, UA
12	6–7 May, 2002	CUBA (Havana)	BY, DE, LT, CU, RU, RO, SK, UA; BIML
13	29–30 April, 2003	UKRAINE (Yalta)	BY, BG, DE, KP, LT, CU, MD, RU, SK, UA
14	27–28 May, 2004	BULGARIA (Albena)	BY, BG, DE, KZ, KP, LT, CU, MD, RU, UZ, UA; BIML
15	8–9 September, 2005	LITHUANIA (Vilnius)	BY, BG, DE, LT, MD, RU, SK, UZ, UA
16	4–5 September, 2006	GERMANY (Braunschweig)	BY, BG, CZ, DE, GE, KG, KZ, LT, MD, RU, SK, UA, UZ; CIPM, OIML, BIML, APMP, EURAMET
17	24–25 April, 2007	BELARUS (Minsk)	AM, AZ, BY, BG, DE, GE, KG, KZ, LT, RU, SK, UA, UZ; BIPM, BIML, EURAMET, WELMEC, APMP, EASC
18	15–16 May, 2008	UKRAINE (Kharkov)	AM, AZ, BY, CU, DE, KZ, MD, RU, SK, UA, UZ; BIML, EURAMET
19	20–21 May, 2009	AZERBAIJAN (Baku)	AZ, BY, BG, CU, DE, GE, KG, LT, MD, RU, SK, UA, UZ; BIML, EURAMET, NCSLI, WELMEC
20	21–22 April, 2010	KAZAKHSTAN (Astana)	AZ, AM, BY, KG, KZ, LT, RU, SK, TJ, UA, UZ; APMP
21	27–28 April, 2011	ARMENIA (Yerevan)	AM, BY, CU, DE, GE, KG, KZ, LT, MD, RU, RO, SK, UA, UZ; CIML, BIML, BIPM, WELMEC
22	18–19 April, 2012	KYRGYZSTAN (Cholpon-Ata)	AZ, AR, BY, DE, GE, KZ, KG, LV, RU, SK, TJ, UZ, UA, BIML, BIPM, EURAMET, APMP
23	5–6 July, 2013	RUSSIA (Nizhny Novgorod)	AZ, AR, BA, BY, DE, HR, KG, KZ, LT, MK, RU, SK, TJ, UZ, UA, BIML, BIPM
24	16–17 April, 2014	RUSSIA (Ekaterinburg)	AZ, AR, BY, DE, KG, KZ, RU, SK, TJ, TQ, UZ, UA, BIML, BIPM
25	27–28 May, 2015	TAJIKISTAN (Khujand)	AZ, AR, BY, DE, GE, KZ, KG, MD, RU, TJ, TR, UZ, UA, CN, USA, BIML, BIPM
26	20–21 April, 2016	ARMENIA (Erevan)	AR, BY, CN, CU, DE, KG, GE, KZ, RU, SK, TJ, UZ, UA, BIML, BIPM

### COUNTRY CODES

AM – Armenia  
 AZ – Azerbaijan  
 BA – Bosnia and Herzegovina  
 BG – Bulgaria  
 BY – Belarus  
 CN – China  
 CU – Cuba  
 CS – Czechoslovakia  
 CZ – Czech Republic

DE – Germany  
 EE – Estonia  
 GE – Georgia  
 HU – Hungary  
 KG – Kyrgyzstan  
 KP – DPR of Korea  
 KZ – Kazakhstan  
 LT – Lithuania

MD – Moldova  
 PL – Poland  
 RO – Romania  
 RU – Russia  
 SK – Slovakia  
 TJ – Tajikistan  
 TQ – Turkey  
 UA – Ukraine

US – USA  
 UZ – Uzbekistan  
 YU – Yugoslavia

## Acronyms for the names of the NMIs of COOMET Member Countries

Agency "UZSTANDARD" "AZSTANDARD" Committee	Uzbekistan Azerbaijan	Uzbek Agency for Standardisation, Metrology and Certification State Committee for Standardization, Metrology and Patent of the Republic of Azerbaijan
BAM	Germany	Bundesanstalt für Materialforschung und –prüfung
BelGIM	Belarus	Belarussian State Institute of Metrology
BIM	Bulgaria	Bulgarian Institute of Metrology
BRML	Romania	Romanian Bureau of Legal Metrology
CENTIS	Cuba	Center of Isotopes
CJSC "NIM"	Armenia	Closed Joint Stock Company "National Institute of Metrology"
CIM	DPR of Korea	Central Institute of Metrology
CPHR	Cuba	Center for Protection and Hygiene of the Radiations
CRMS	Uzbekistan	Center for Rendering of Metrological Services
CSM	Kyrgyzstan	Center for Standardization and Metrology under the Ministry of Economy of the Kyrgyz Republic
CSMC "SSSRD"	Russia	Central Scientific Metrological Centre for Standard Reference Data
DAkKS	Germany	Deutsche Akkreditierungsstelle GmbH
DG MMI	Bulgaria	General Directorate "Measures and Measuring Instruments"
DG MSv	Bulgaria	Directorate General "Metrological Supervision"
DG NCM	Bulgaria	General Directorate "National Centre of Metrology"
DKD	Germany	(former) Deutscher Kalibrierdienst
DP "Ivano-Frankivskstandart-metrologija"	Ukraine	State enterprise "Ivano-Frankivsk Research-and-Production Center for Standardization, Metrology and Certification"
DP NDI "Systema"	Ukraine	State Enterprise "Scientific Research Institute for Metrology of Measurement and Control Systems"
FTMC	Lithuania	State Scientific Research Institute Center for Physical Sciences and Technology
GEOSTM	Georgia	Georgian National Agency for Standards and Metrology
Gosstandart of Belarus	Belarus	State Committee for Standardization of the Republic of Belarus
IMBIH	Bosnia and Herzegovina	The Institute of Metrology of Bosnia and Herzegovina
INIMET	Cuba	National Research Institute on Metrology
INM	China	National Institute of Metrology
INM	Romania	National Institute of Metrology
INSM	Moldova	National Institute of Standardization and Metrology
ISTL	Ukraine	International School of Technical Legislation and Quality Management
KTU MI	Lithuania	Metrology Institute at Kaunas Technology University
LEI	Lithuania	Lithuanian Energy Institute
LMET	Germany	Thuringian State Bureau for Metrology and Verification
MEMST	Kazakhstan	The Committee of Technical Regulation and Metrology of the Ministry of Industry and New Technologies of the Republic of Kazakhstan
NC	Cuba	Cuban National Bureau of Standards
NICPV	Russia	Center for Surface and Vacuum Research
NIMS MEAP KR	Kyrgyzstan	National Inspection to the Metrological Supervision under the Ministry of Economy of the Kyrgyz Republic
NSC "IM"	Ukraine	National Scientific Centre "Institute of Metrology"
MEAP KR	Kyrgyzstan	The Ministry of Economy of the Kyrgyz Republic

## Acronyms for the names of the NMIs of COOMET Member Countries

PI NMI	Moldova	Public Institution National Metrology Institute
PTB	Germany	Physikalisch-Technische Bundesanstalt
Rosstandart	Russia	Federal Agency on Technical Regulation and Metrology of the Russian Federation
RSE “KazInMetr”	Kazakhstan	Republic State Enterprise “Kazakhstan Institute of Metrology”
SAMTS	Bulgaria	State Agency for Metrological and Technical Surveillance
SAQM	DPR of Korea	State Administration for Quality Management
SE “Ukrmetrteststandard”	Ukraine	State Enterprise “All-Ukrainian State Scientific and Research Centre of Standardization, Metrology, Certification and Consumer Protection”
SI “CNS Uz”	Uzbekistan	The State Institution “Centre of National Standards of Republic of Uzbekistan”
SKS RSE “KazInMetr”	Kazakhstan	South-Kazakhstan Subsidiary of Republic State Enterprise “Kazakhstan Institute of Metrology”
SLM	Slovakia	Slovak Legal Metrology
SMI	Slovakia	Slovak Metrology Inspectorate
SMU	Slovakia	Slovak Institute of Metrology
SNAS	Slovakia	Slovak National Accreditation Service
SNIIM	Russia	Siberian State Scientific Research Institute of Metrology
SRISMC	Uzbekistan	Scientific Research Institute of Standardization, Metrology and Certification
SUTN	Slovakia	Slovak Standards Institute
Tajikstandard	Tajikistan	Agency on Standardization, Metrology, Certification and Trade Inspection under the Government of the Republic of Tajikistan
TSU	Slovakia	Technical Testing Institute
TUBITAK UME	Turkey	National Metrology Institute
UNIIM	Russia	Urals Scientific Research Institute of Metrology
UNMS	Slovakia	Slovak Office of Standards, Metrology and Testing
VMC	Lithuania	Vilnius Metrology Centre
VNIIFTRI	Russia	All-Russian Scientific Research Institute of Physico-Technical Measurements
VNIIFTRI ESB	Russia	East-Siberian branch of the National Research Institute of Physicotechnical and Radio Engineering Measurements
VNIIFTRI FEB	Russia	Far East branch of the National Research Institute of Physicotechnical and Radio Engineering Measurements
VNIIFTRI KB	Russia	Kamchatka branch of the National Research Institute of Physicotechnical and Radio Engineering Measurements
VNIIM	Russia	All-Russian Scientific Research Institute of Metrology named after D.I. Mendeleev
VNIIMS	Russia	All-Russian Scientific Research Institute of Metrological Service
VNIIOFI	Russia	All-Russian Scientific Research Institute of Optical and Physical Measurements
VNIIR	Russia	All-Russian Scientific Research Institute of Flowrate Measurement
WKS RSE “KazInMetr”	Kazakhstan	Western-Kazakhstan Subsidiary of Republic State Enterprise “Kazakhstan Institute of Metrology”

## Acronyms for the names of international and regional metrology organizations

AFRIMETS	Intra-African Metrology System
APLMF	Asia Pacific Legal Metrology Forum
APMP	Asia Pacific Metrology Programme
BIML	International Bureau of Legal Metrology
BIPM	International Bureau of Weights and Measures
CODATA	Committee on Data for Science and Technology
EA	European Cooperation for Accreditation
EASC	Euro-Asian Council for Standardization, Metrology and Certification
EURAMET	European Association of National Metrology Institutions
IEC	International Electrotechnical Commission
ILAC	International Laboratory Accreditation Cooperation
ISO	International Organisation for Standardization
JCRB	Joint Committee of Regional Metrology Organisations and BIPM
NCSLI	National Conference of Standards Laboratories International
OIML	International Organisation of Legal Metrology
SIM	Inter-American Metrology System
STCMetr	Scientific & Technical Commission on Metrology of Euro-Asian Council for Standardization, Metrology and Certification
WELMEC	Western Europe Legal Metrology Cooperation

