

Decision
of the meeting of the COOMET TC 1.5 “Length and Angle”

30-31 January, 2012

MIPT, Dolgoprudniy, Russia

At the meeting of TC 1.5 there were considered the following basic questions:

- report of the Chairperson of TC 1.5 about the state of the COOMET projects at the moment;
- report of the Chairperson of TC 1.5 about the events, conducted in the period between the meetings of TC;
- actualization of the comparison projects, on the previously conducted and planned activities;
- reports (presentations) of TC members and representatives of National Metrological Institutes (NMI) of COOMET member countries: V.Lisenko (VNIIMS, Russia), Thomas Ahbe (PTB, Germany) O.Isakova (RSE “RazInMetr”, Kazakhstan), A.Demidova (BelGIM, Belarus), P.Todua (NICPV, Russia), B.Shimolin (UNIIM, Russia), N.Gorina (INSM, Moldova).
- organizational issues about the activities of TC 1.5.

As a result of the discussion of the questions raised in the Programme of the meeting of the COOMET TC 1.5 “Length and Angle” there were made the following decisions.

1. Regarding the organization of TC work

1.1 To consider the cooperation within COOMET TC 1.5 “Length and Angle” as satisfactory.

1.2 To actualize the conduction of the comparisons in the field of measurements in the nanometer range (pilot organization – NICPV, Russia).

1.3 To organize two working groups within TC 1.5 “Length and Angle” in the following directions:

- measurement of length in the nanometer range (coordinator – P. Todua, Director of NICPV, Russia);

- measurement of long distances in air (coordinator – A. Kostrikov, scientist, NSC “Institute of Metrology”, Ukraine);

1.4 To mention a good quality of work organization of D.I.Mendeleyev VNIIM, Russia on the Project of the comparisons of *He-Ne* lasers.

1.5 To distribute the decision of the meeting of the COOMET TC 1.5 “Length and Angle” among the members of TC, Chairperson of OKE and COOMET Secretariat till 28.02.2012.

2. Regarding the agreed and proposed projects

2.1 It’s recommended for the coordinators to follow actively the state of the comparisons which are being conducted.

2.2 To propose “KazInMet” to consider the question about being the pilot of comparison project for comparators of glass scales up to 200 mm.

2.3 To exclude the Project 277/UA-a/03 “Conduction of comparisons of highest accuracy interferometers for gauge blocks measurements (up to 1 m)” as irrelevant.

2.4 To confirm the actuality of conduction of the following comparison projects:

No.	Project ID	Name of the proposed project
1	370/RU/06	Interlaboratory comparison of length standards in the nanometer range
2	450/UA/09	Comparison of reference instruments of unit of length for parameters of roughness
3	524/RU/11	Comparison of national measurement standards of plane angle unit
4	527/RU/11	Additional comparisons of surface density of coatings
5	529/RU/11	International comparison of interferometers for measuring 20-meter long tapes

3. Propositions on the results of the meeting of TC 1.5

3.1 To complete the technical protocols and to register them in the KCDB on the following projects:

- 450/UA/09 “Comparison of reference instruments of unit of length for parameters of roughness”;

- 501/UA/10 “Comparisons of optical standards of flatness”;
- 524/RU/11 “Comparison of national measurement standards of plane angle unit”;

3.2 To invite the representatives from NIIFTRI and NPO “Geophysics” to the meeting of TC 1.5.

3.3 To consider the following perspective directions for organization of comparisons:

CMC code	Name	
L.2.1.1	(Laser, length) interferometer (system, optics, refractometer): error of indicated displacement, wavelength compensation	(Лазер, длина) интерферометр: погрешность отображаемого перемещения, компенсация длины волны
L.4.2.1	External cylinder: roundness	Внешний цилиндр: круглость
L.4.2.3	Sphere (hemisphere): roundness	Параметры сферичности
L.6.1.3	Depth micrometer: error of indicated depth	Микрометр-глубиномер: погрешность отображаемой глубины
L.6.4.1	Geodetic baseline: interval distances	Геодезический базис: расстояния между базисами

4. Place and date of conduction of the next meeting of TC 1.5

To address the administration of PTB with a request to organize the conduction of the next meeting of the COOMET TC 1.5 “Length and Angle” in April-May 2013 in Braunschweig, Germany.

In accordance with the proposition made, the meeting of TC 1.5 in 2014 is planned to be held at VNIIMS, Moscow, Russia.

Chairperson of COOMET TC 1.5
“Length and Angle”

V.Kupko