

Report
of the chairperson of COOMET TC 1.2 «Acoustics. Ultrasound. Vibration»

1. General features of cooperation in the above area

Cooperation between COOMET members in the area "AUV" was established more than four years ago.

At present 12 national organizations are represented in TC "AUV". The TC membership was extended through accession of North Korea (associated member since 2002) and Uzbekistan (full member since 2004).

As you know, a number of COOMET members submit CMC data of the local NMIs through other regional metrological organizations.

The process of CMC data submission is shown in figure 1.

In 2003 Belarus and Ukraine signed the MRA and joined the General Conference on Weights and Measures as associated members.

The experts of Belarus, Germany, Russia, Ukraine, Bulgaria are actively engaged in activities within this TC. Unfortunately, until recently there has been no contact to the representatives of NMIs of Cuba, North Korea and Romania; However, the information on TC activities is delivered to the corresponding members of the above countries on an annual basis.

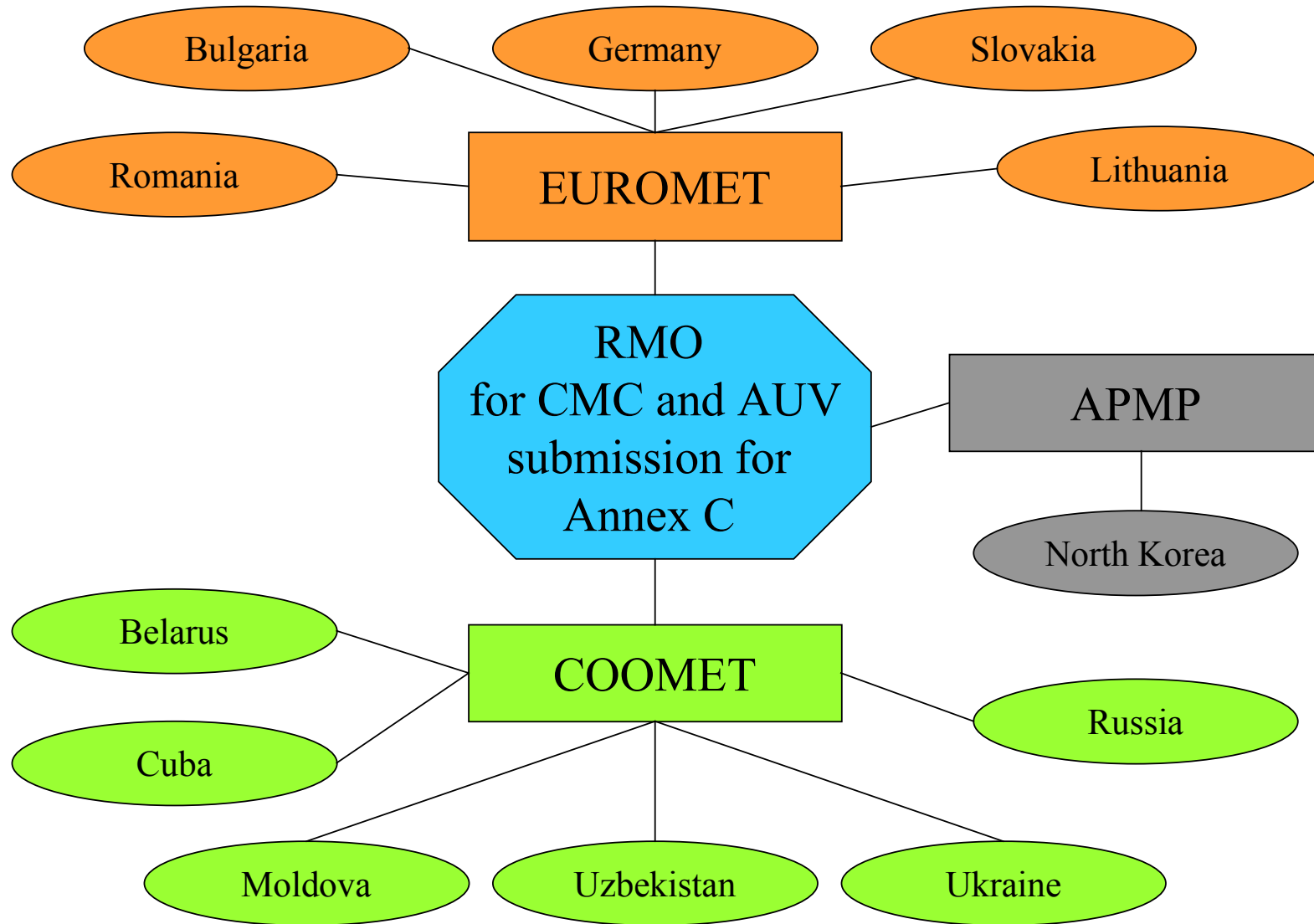


Fig. 1

2. TC Sessions

In July, 2003, Russian NMI (VNIIFTRI) hosted the 2-nd session of TC "AUV". The participants were TC members and persons invited from five countries: Belarus, Germany, Denmark, Russia and Ukraine.

During this session the workshop "Calibration of microphones and associated uncertainty" with participation of Mr. E. Frederiksen from DPLA, Denmark, was held.

The next 3-rd TC session will take place in early September, 2004 in DP "NDI" System ", Lvov, Ukraine. Additionally the international training workshop «Current needs of metrological assurance of acoustic measurements» is scheduled with participation of TC members and experts from NPL (Great Britain) and DPLA (Denmark).

The present report will be supplemented with the results of TC 3-rd session and training workshop and forwarded to your address not later than September, 17.

3. Participation in implementation of the Agreement on mutual recognition of national standards and certificates of calibration and measurements (MRA)

One of the priorities of TC "AUV" is cooperation in the field of standards, including activities for MRA implementation.

3.1 Status of CMC data of COOMET members is shown in figure 2.

Status of CMC "AUV" of COOMET NMIs

- **POSTED ON BIPM KCDB**
 - COOMET.AUV.1.2001
 - VNIIFTRI, VNIIM, RUSSIA
- **POSTED ON COOMET WEBSITE**
 - COOMET.AUV.2.2003
 - BelGIM, Belarus
- **UNDERGONE TO INTER-REGIONAL REVIEW,**
 - CMC for vibration
 - BelGIM , Belarus
- **POSTED ON COOMET WEBSITE**
 - CMC for acoustics and vibration,
 - DNDI «Systema», UkrCSM, (Ukraine)
- **UNDER PREPARATION**
 - CMC - tables
 - INSM, Moldova
 - CNS, Uzbekistan
- **NO INFORMATION**
 - INIMET, Cuba

Fig. 2

3.2 COOMET participation in CMC inter-regional review.

For the period under review, COOMET TC "AUV" reviewed the CMC-tables of two regional metrological organizations:

APMP CMC (file APMP.AUV.1.2003);
EUROMET CMC (file EUROMET.AUV.4.2004).

Implementation of COOMET "AUV" subjects

No and (or) status	Description	Coordinator (or Proposer)	Stage of implementation
234/BY-a/01	«Establishing the working group for COOMET participation in AUV CMC data review »	Mrs. V.Pozdeeva, BelGIM, Belarus	The Working Group which consists of leading experts from COOMET NMIs has been in operation since January 2002 and is engaged in regional as well as inter-regional AUV CMC reviews.
226/DE-a/01	«Calibration of LS1P type microphones using a reciprocity method»	Dr. T. Fedtke, PTB, Germany	Project A of this subject is under implementation.
308/RU/04 (Proposal)	«Key comparison of national standards of units of vibration parameters (unit of linear sinusoidal acceleration) at frequency from 20 Hz to 5000 Hz»	V.J.Smirnov, VNIIM, Russia	This subject is under preparation (comparison procedures are being written, group of participants is being made up).
(Proposal)	«Calibration of LS2P type microphones by pressure» (reciprocity method according to IEC 61094-2)	Dr. V.Chalyy, DP "NDI" System", Ukraine	The decision on addition of this subject to the COOMET comparison program will be made at the TC 3-rd session.
(Proposal)	«Calibration of LS2P type microphones using a field method» (reciprocity method according to IEC 61094-3)	Dr. V. Chalyy, DP "NDI" System", Ukraine	The decision on addition of this subject to the COOMET comparison program will be made at the TC3-rd session.
(Proposal)	«Bilateral comparison by means of calibration of the microphone type LS1P»	Dr. T. Fedtke, PTB, Germany	This subject is under preparation

Participation of COOMET NMIs in scheduled key comparisons within the Consultative Committee for "AUV":

Russian VNIIFTRI is a participant of the scheduled key comparisons as follows: CCAUV.A-K2 «Comparison of laboratory standard microphones within the frequency range from 2 Hz up to 125 Hz» and CCAUV.W-K2 (low frequencies).

Finally I would like to express my thanks for cooperation to colleagues from other RMOs.

With best wishes,

V. Pozdeeva

Chairperson of COOMET TC "AUV"