

1. General Aspects

EURAMET TC-L has currently representatives from 33 EURAMET members and 2 corresponding NMIs (Egypt and Israel). EURAMET will take care of the CMC-process for these two (non-European) countries.

2. Projects

In the period under review there were a total of 35 active projects with 18 being comparisons. Again this is a slight increase compared to the last year.

3. Comparisons

3.1 EURAMET Key/Supplemental Comparisons

The table summarises the active or recently finished KC/SC. Entries in red changed status during the period reported.

Designation	Title	Status
EURAMET.L-K1.2	Gauge blocks by interferometry	Draft A
EURAMET.L-K3.1	optical polygons	approved and published
EURAMET.L-K3.2009	Angle comparison using an autocollimator	in progress
EUROMET.L-K4.2005	Diameter standards	approved and published
EUROMET.L-K5.2004	Step gauge	Draft A
EUROMET.L-K6	2D-CMM artefacts	Draft A
EUROMET.L-K7.2006	Linescales	final
EURAMET.L-K8	Surface texture - Roughness	in progress
EURAMET.L-S15.a	Step height standards	approved and published
EURAMET.L-S20	Comparison of laser distance measuring instruments	in progress

3.2 CCL Key Comparisons

No essential change in the field of CCL comparisons can be reported for the last year.

Designation	Title	Status
CCL-K1.2010	Gauge blocks (short and long) by interferometry	2009, proposed 4 EURAMET NMIs participating "old style" type CCL KC TP nearly finished
CCL-K11	Comparison of optical frequency and wavelength standards	in progress since 2008 ongoing final report for 2010 published

4. CMCs

An overview of the past and present CMC submission is given in the table below. At the 2009 TC-L meeting it was decided that there should be two sets per year and a strict time schedule will be followed. Also a number of "fast track" changes were submitted during this period which can not be found in the table (since they do not bear a special designation). Red entries changed status during the period reported.

Designation	Comment	Status
EUROMET.L.1.2001	Full submission, almost all services, most EUROMET NMIs	published, 2001-10-30
EUROMET.L.2.2002	Minor updates/submissions from GB and FI.	published, 2003-01-09
EUROMET.L.3.2004	Submissions from AT, CH, CZ, DE, HU, IT, NO. Also first submission from BG, LT, LV, RO, SI, YU.	published, 2005-03-23
EUROMET.L.4.2006	24 minor updates and 35 new submissions.	published, 2006-05-10
EUROMET.L.5.2007	19 updated or new CMCs from 7 NMIs	published, 2007-05-21
EUROMET.L.6.2008	37 CMCs (new and updated) from 8 countries including EG	published, 2009-02-11
EUROMET.L.7.2009	33 CMCs (new and updated) from 8 countries	published, 2009-11-21
EURAMET.L.8.2010	35 CMCs (new and updated) from 12 countries	published, 2010-04-21
EUROMET.L.9.2010	14 CMCs (new and updated) from 5 countries	published (not all), 2010-09-19
EUROMET.L.10.2011	47 CMCs (new and updated) from 9 countries	interRMO-review till June

In the period reported a total of 11 CMC sets from other RMOs were treated by TC-L, most of them already published on the KCDB now (one from COOMET, one from SIM, nine from APMP).



5. Activities of the Sub-Committees

There are no sub-committees in TC-L

6. Participation in EMRP

Obviously TC-L is responsible for the targeted programme in length (TP3). Four Joint research programs (JRPs) are funded by the European Commission and a currently operated by several EURAMET NMIs:

JRP	JRP Short name	JRP Title
J1.1	Nanoparticles	Traceable characterization of nanoparticles
J1.4	NANOTRACE	New Traceability Routes for Nanometrology
J3.1	Long distance	Absolute long distance measurement in air
J2.2	NIMTech	Metrology for New Industrial Measurement Technologies

All of them will come to an end this year. In the period reported a significant amount of labour was spend regarding collection of topics for the calls “Metrology for industry” and “Environment” in the framework of the article 169 funded EMRPs, and the elaboration of the respective JRPs. Due to the more interdisciplinary nature of the calls it is not always obvious which JRP “belongs” to TC-L. Out of the 26 ranked JRPs at least 3 deal more or less direct with dimensional metrology.

7. Meetings

Previous meetings

- 2010 TC-L CP meeting, 19-22 September 2010, SP, Boras, Sweden
- Meeting of CCL-WGs, 7-11 June 2010, A*STAR, Singapore

upcoming meetings

- 2011 TC-L CP meeting, October 2011, METAS, Bern, Switzerland
- Meeting of CCL-WGs, October 2011, METAS, Bern, Switzerland

8. Issues

There are three main issues identified at the last GA which are not specific to TC-L but anyhow found relevant.

- Activities of the TC are dominated by EMRP issues.
- Comparisons are taking sometimes too long to complete.
- Little progress in “classical” EURAMET projects.

There has been an extensive discussion at the last TC-L meeting about these issues. Especially the measures to streamline the comparison process has provoked some controversy. Since TC-L is going to start a big (the biggest) key comparison, it was agreed to use it as a test object for some of the ideas. This point will be reviewed in more detail during the presentation.

9. Outlook for 2011

It can be foreseen that a significant amount of labour has to be spend regarding collection of topics for the upcoming calls in the framework of the article 169 funded EMRPs. TC-L tries to hold a balance between these issues, the classical EURAMET projects and the RMO-duties.

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TC-Length Chairman, 30 May 2011*