
Consultative Committee for Length – CCL
Discussion Group on Diameter – DG4

14-15 June 2018

DG4 report to CCL, 2018

BIPM, Sèvres

DG4 membership

| | | | | | |
|------------------------|--------------|-------------|----------------------|----------|------|
| Miguel Viliesid | CENAM | (MX) | Ilker Meral | UME | (TR) |
| John Stoup | NIST | (US) | Gian Bartolo Picotto | INRIM | (IT) |
| Yoichi Bitou | NMIJ-AIST | (JP) | Emilio Prieto | CEM | (ES) |
| Vaclav Duchon | CMI | (CZ) | Greg Reain | NRC-CNRC | (CA) |
| David Falk | NPL | (UK) | Siew Leng Tan | A*STAR | (SG) |
| Otto Jusko | PTB | (D) | Ruedi Thalmann | METAS | (CH) |
| Chu-Shik Kang | KRISS | (KR) | Shihua Wang | A*STAR | (SG) |
| Jong-Ahn Kim | KRISS | (KR) | Tanfer Yandayan | UME | (TR) |
| Oelof Kruger | NMISA | (ZA) | | | |
| Antti Lassila | VTT-MIKES | (FI) | | | |

Discussions

Dr Miguel Viliesid from CENAM, Mexico stepped in as chairperson only since last year, taking over the position from Dr Jack Stone from NIST who had been the moderator of DG 4 until then. We wish former moderator Dr Jack Stone from NIST best wishes for his retirement!

The main topics of emails since the previous meeting of the CCL have been related to comparisons for MRA purposes which we mention in the following section.

Comparison activities

At the moment, the following comparisons are underway:

- **CCL-K4.2015** – Pilot Laboratory NIST. Circulation has finished, Draft A report expected from September 2018, Draft B report expected for mid-2019, Final report for late 2019.
- **EURAMET.L-K4.2005.1** – Pilot Laboratories VSL & SMD. Draft B report underway. Final report to be issued late 2018.
- **EURAMET.L-K4.2015** – Pilot laboratory INRIM. Two circulation loops, one of them completed, the other one to be finished shortly. Draft A expected before September 2018, Draft B expected for March 2019, Final report before the end of 2019.

Potential topics for DG discussion

No potential topics for discussion have been forwarded to the moderator at present. However, the moderator suggests the following to open the discussion.

- Measurement of very small diameters, internal and external (under 0.2 mm by probing or other means).
- High accuracy dead-weight balance piston-cylinder diameter uncertainty requirements.
- Non-contact high accuracy diameter measurement.

Miguel Viliesid, CENAM
DG4 moderator

14 June 2018