**Consultative Committee for Length – CCL** 

**Discussion Group on Diameter – DG4** 

# DG4 report to CCL, 2018

**BIPM**, Sèvres

## DG4 membership

14-15 June 2018

Miguel Viliesid	CENAM	(MX)
John Stoup	NIST	(US)
Yoichi Bitou	NMIJ-AIST	(JP)
Vaclav Duchon	CMI	(CZ)
David Falk	NPL	(UK)
Otto Jusko	РТВ	(D)
Chu-Shik Kang	KRISS	(KR)
Jong-Ahn Kim	KRISS	(KR)
Oelof Kruger	NMISA	(ZA)
Antti Lassila	VTT-MIKES	(FI)

Ilker Meral	UME	(TR)
Gian Bartolo Picotto	INRIM	(IT)
Emilio Prieto	CEM	(ES)
Greg Reain	NRC-CNRC	(CA)
Siew Leng Tan	A*STAR	(SG)
Ruedi Thalmann	METAS	(CH)
Shihua Wang	A*STAR	(SG)
Tanfer Yandayan	UME	(TR)

#### 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