

The European Metrology Research Programme (**EMRP**) is a metrology-focused European programme of coordinated R&D that facilitates closer integration of national research programmes. The EMRP is jointly supported by the European Commission and the participating countries within the European Association of National Metrology Institutes (**EURAMET** e.V.).

**EMPIR** follows the successful European Metrology Research Programme (EMRP), which issued its final call for projects in 2013. The European Metrology Programme for Innovation and Research (EMPIR) is the main programme for European research on metrology. It coordinates research projects to address grand challenges, while supporting and developing the SI system of measurement units. There is an increased focus within EMPIR on innovation activities to target the needs of industry and accelerate the uptake of research outputs. The EMPIR programme has a budget of 600 million Euros and publishes annual Calls for Joint Metrology Research Projects in different topical areas from 2014 - 2020.

The **EURAMET Technical Committee for Length (TC-L)** primarily concentrates on metrological issues of dimensional and related measurements.

This **TC-L open workshop** will present the main results from Joint Research Projects related to dimensional metrology, which were initiated from the 2012 'Industry' and 'Broader SI' Calls and completed in 2016. The workshop is open to experts from outside the NMI's and provides an open information and discussion platform. It will also be a forum to discuss options for research topics and collaborations regarding the 2017 EMPIR Calls.

## Venue and travel information

**VSL**, the Dutch metrology institute, is located in the Delft business park Technopolis.

**Car:** VSL is located near exit 10 (Delft-Zuid) on the highway A13 (The Hague - Rotterdam).

**Train:** VSL can be reached from the Delft train station by bus 40 (RET) and bus 69 (Veolia). The bus stop closest to VSL is "TU-Technopolis". The journey time is about 15 to 20 minutes.

Further information: [www.vsl.nl](http://www.vsl.nl)



VSL  
 Thijsseweg 11  
 2629 JA Delft  
 The Netherlands

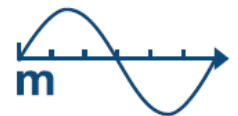
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## EURAMET TC-LENGTH

## EMRP / EMPIR Open WORKSHOP

VSL, Delft, Netherlands  
 October 19, 2016



Length

## Agenda

Wednesday, Oct. 19, morning session

- 08:30 **Registration**  
VSL, Delft
- 09:00 **Welcome by host**  
Rob Bergmans, VSL, NL
- 09:05 **Introduction to workshop**  
Harald Bosse, TC-L chairperson, PTB, DE
- 09:15 **Metrology for long distance surveying, [Surveying](#)**, JRP SIB60  
Florian Pollinger, PTB, DE
- 09:50 **Large volume metrology in industry, [LUMINAR](#)**, JRP IND53  
Andrew Lewis, NPL, UK
- 10:25 **Traceable in-process dimensional measurement, [TIM](#)**, JRP IND62  
Klaus Wendt, PTB, DE
- 11:00 **Coffee break**
- 11:30 **Metrology for movement and positioning in six degrees of freedom, [6DoF](#)**, JRP IND58  
Jens Flügge, PTB, DE
- 12:05 **Multi-sensor metrology for microparts in innovative industrial products, [Microparts](#)**, JRP IND59  
Ulrich Neuschaefer-Rube, Christian Rothleitner, PTB, DE
- 12:45 **Traceability for computationally-intensive metrology, [TraCIM](#)**, JRP NEW06  
Klaus Wendt, PTB, DE

## Agenda

Wednesday, Oct. 19, afternoon session

- 13:15 **Lunch break**
- 14:00 **Crystalline surfaces, self assembled structures, and nano-origami as length standard in (nano)metrology, [CRYSTAL](#)**, JRP SIB61  
Ingo Busch, PTB, DE
- 14:35 **Automated in-line Metrology for Nanoscale Production, [aim4np](#)**, FP7: NMP.2012.1.4-3  
Richard Koops, VSL, NL
- 15:10 **Angle metrology, [Angles](#)**, JRP SIB58  
Tanfer Yandayan, UME, TR
- 15:45 **Discussion and future planning: preparation for EMPIR Calls 2017**  
Jens Flügge, TC-L Convenor WG EMPIR
- 16:15 **End of open TC-L workshop**
- 16:15 Optional:  
**Visits of selected VSL laboratories**

## Registration

Mail to: [rbergmans@vsl.nl](mailto:rbergmans@vsl.nl)

### EURAMET TC-Length

#### EMRP / EMPIR OPEN WORKSHOP

Oct. 19, 2016

VSL, Delft, Netherlands

Registration deadline: October 14, 2016

The workshop is free of charge.

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Title, first name, family name

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Company, Institution

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Street

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Postal Code      City

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Country

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Phone

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Fax

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E-mail

I hereby register for the workshop at VSL on Oct. 19:

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Date, Signature