Workshop of SIB58 Angles – Angle Metrology
28 October 2015, Madrid / Spain
“Current state of the art in Angle Metrology”

Location
Centro Español de Metrología (CEM)
Alfar 2 – Tres Cantos
28760 Madrid (España)

Contact:
Emilio Prieto
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e-mail: eprieto@cem.minetur.es

Workshop is open to universities, companies, metrology labs and industry.

Workshop Programme

09:00 – 09:15
Opening Remarks and Introduction
Tanfer Yandayan (TUBITAK)

09:15 – 10:00
On the Metrology for Ultra-precise Synchrotron Optics – current state and upcoming challenges
Frank Siewert (HZB)

10:00 – 10:15
Autocollimators: From past to today
Carsten Schlewitt (MWO)

10:15 – 10:40
Use of autocollimators under challenging measuring conditions
Ralf D. Geckeler (PTB)

10:40 – 11:00 (Break)

11:00- 11:20
Autocollimator Centering Device (ACenD) for application of autocollimators in profilometers
Carsten Schlewitt (MWO)

11:20- 11:35
From plane to spatial angles: PTB’s Spatial Angle Autocollimator Calibrator
Ralf D. Geckeler (PTB)

11:35-11:50
Interferometric device for 2D calibration of autocollimators
Antti Lassila (MIKES/VTT)
11:50-12:10
Shearing-based simultaneous calibration of an autocollimator and an encoder
Ralf D. Geckeler (PTB)

12:10-12:30
Use of shearing method for simultaneous calibration of an autocollimator & a Small Angle Generator (SAG) and investigation of error sources
Tanfer Yandayan (TUBITAK)

12:30 – 14:00 (Lunch)

14:00-14:20
Rotary Tables - Angle Encoders as primary standard, important issues and Rotary Encoder Standard (RES) of INRIM
Marco Pisani (INRIM)

14:20-14:35
In situ self-calibration of angle encoders with multiple reading heads
Ralf D. Geckeler (PTB)

14:35-14:55
Important issues in angle encoder calibration and developed coupling tools
Emilio Prieto (CEM)

14:55-15:10
Investigations of alignment effects during angle encoder calibration
Salgado José Antonio (LNE)

15:10-15:40
Precise Large Range Small Angle Generation
Aitor Olarra (IK4-TEKNIKER)

15:40-15:50
Closing Remarks
Tanfer Yandayan (TUBITAK)
Information on the EURAMET TC-L meeting 2015

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Dates & Schedule

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<tr>
<th>Time</th>
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