

## 1. General Aspects

TC-IM, addresses the main issues that:

- are of a cross cutting nature, or
- not covered by a specific TC,

and thus are not best addressed by one of the other EURAMET TC's or other EURAMET bodies. At the present time, TC-IM provides a forum and opportunity for bottom-up ideas to be explored, and in particular on interdisciplinary matters.

TC-IM has representatives from 29 of the 37 members of EURAMET. BoM, SMU and JV have nominated new contact persons to TC-IM. The contact person from INM-RO retired and was not yet replaced.

## 2. Projects

- 1001 Agreement of traceability in measurement field - ongoing
- 1460 Memorandum of Understanding for Closer Collaboration in Baltic States Metrosero ongoing
- 1374 Metrology - in short, fourth edition in progress, now in draft
- 1448 Development of digital calibration certificates - in progress
- 1449 Research data management and the European Open Science Cloud – in progress

**3. Comparisons:** n.a.

**4. CMCs:** n.a.

## 5. Activities of the Subcommittees

MATHMET (the European Centre for Mathematics and Statistics in Metrology) was proposed as EMN, which is why the GA will decide about its future.

**6. Participation in EMRP/ EMPIR:** n.a.

## 7. Capacity Building: Activities of the last year and future needs:

Training courses 2019 in preparation: 2 projects are associated with TC-IM.

- EURAMET Workshop on Metrological Aspects of "Big Data" (link to MATHMET).
- EURAMET Workshop on Calibration Automatisaton (Digital Certificates).

## 8. Meetings

The 24<sup>rd</sup> TC-IM Meeting was held in Delft, 20 to 21 March 2019, with 23 participants from 20 different countries.

## 9. Issues

- Digitalization is addressed through 2 TC-IM projects directed towards internal needs. This is not considered sufficient ambitious. Digitalization is an important topic and should be addressed in all aspects including those of interest for stakeholders. It is proposed to continue supporting the 2 projects but also to identify other topics with help of experts.

- Calibration and Technical Guides: are currently reviewed and brought to a new design and to a higher level e.g. adding uncertainty budget. MathMet could contribute to the revisions.
- No progress with e-learning projects. A new action is proposed: collect information from NMIs about existing e-learning materials available in form of a linked list.

## 10. Strategic Planning

- EA liaison: Identify a list of topics to be discussed with EA and ways to strengthen the collaboration between EURAMET/Welmec and EA;
- Projects on digitalization TC-IM recommendations: organize a meeting with all partners. define work packages and share the workload, in writing the work packages take into consideration existing EMPIR projects, identify the obstacles to the international market approval of calibration certificates.
- European Metrology Networks (EMNs) and interaction with TCs: TC-IM will support by analysing existing information (both from reports and national monitoring) and identify opportunities and useful interactions.

## 11. Outlook for 2019/2020

TC-IM strands for action:

- Provide a platform for start-up digitalization projects
- Support European Metrology Networks and foster interactions within Euramet, especially with TCs;
- Enhance cooperation with key peer-organizations in europe: Welmec, CEN-Cenelec, EA
- Gather and disseminate metrological knowledge.