

European Cooperation in Legal Metrology

WELMEC



Recent developments within **WELMEC**

Pavel Klenovsky (WELMEC-Chair)



WELMEC MoU – an overview

- ▶ Regional Legal Metrology Organisation for Europe

The principal aim of WELMEC is to establish a harmonised and consistent approach to European legal metrology.

- ▶ Created by an MoU signed by 18 countries in 1990

- ▶ Members: national legal metrology authorities



WELMEC MoU – an overview

- ▶ 31 Members (EU / EFTA)
- 8 Associate Members
(candidates for EU *)



Map version May 2017

* Stabilisation and Association Agreement



WELMEC MoU – an overview

Secretariat

Chair

Chairperson's Grp

WELMEC Committee

one representative per Member/Associate Member

Convenor

9 Working Groups

Weighing instruments

Market Surveillance

Prepackages

Software

Utility Meters Water/Heat

Utility Meters Gas/Electr

...



Topics

- ▶ Developments towards WELMEC e.V. - continued
- ▶ WELMEC Committee Meeting 2020
- ▶ WELMEC – EURAMET
- ▶ WELMEC Secretariat
- ▶ Technical issues



Development towards WELMEC e.V.

July 2019

Preliminary approval of Byelaws by Committee

21st Nov
2019

Extraordinary Committee
“Founding Meeting” of WELMEC e.V.”

- 19 members at that time
- Approval of the byelaws
- Registration at the German court and Finanzamt
- Opening of the account at Deutsche Bank

Sept. 2020

1st ordinary Committee Meeting WELMEC e.V./Termination of WELMEC MoU

- Problem with the secretariat



e.V. Founding Com Meeting 2019 Elections

▶ *Chair*

- Gregor Dudle [CH] (end of term - 1st e.V. meeting)

▶ *Vice-Chair*

- Ulrike Fuchs [AT]

▶ *Chairperson's Group*

- Zijad Dzemic [BH]
- Tuomo Valkeapää [FI]
- Wilfried de Waal [NL]
- Marc Wouters [BE]

(*) These elections were valid for WELMEC e.V. at the initial stage - new elections to be necessary at the 1st meeting



1st e.V. Com Meeting 2020 Elections

▶ *Chair*

- Pavel Klenovsky [CZ]

▶ *Vice-Chair*

- Marc Wouters [BE]

▶ *Chairperson's Group*

- Zijad Dzemic [BH]
- Tuomo Valkeapää [FI]
- Wilfried de Waal [NL]



Transfer of funds

- ▶ MoU: the bank account to collect the membership fees was in fact held by a private person in ABN AMRO (NL) with funds to the tune of 350 000 EUR
- ▶ **ABN notified WELMEC that the account will be closed by the end of 2018 (money laundering issue)**
- ▶ Only Czech Metrology Institute was able to step in and to establish an account at the Czech National Bank with beneficiary WELMEC
- ▶ All the funds were transferred as a lump sum to this account by the end of 2018
- ▶ Subsequently, all the members were invited to deliver a power of attorney to agree to the transfer of their portion of the lump sum from MoU to e.V. (the process is still going on)



Committee Meeting 2020

Projects of general nature

- ▶ New strategy
- ▶ New corporate identity inclusive logo
- ▶ New website
- ▶ Alignment with EURAMET:
 - a common „landing webpage“ – „European metrology“
 - WELMEC represented on the Scientific Board of EURAMET (EMPIR, EMP)



Committee Meeting 2020

Technical work

- ▶ **Revision and approval of new WELMEC Guides**
 - To be forwarded to EU Commission for reference
- ▶ **Corresponding Tables**

To be forwarded to EU Commission for publication in OJ

 - Automatic Catchweighers (**OIML R51**)
 - Automatic Gravimetric Filling Instruments (**OIML R61**)
 - Discontinuous Totalizers (**OIML R107**)
 - Continuous Totalizers (**OIML R50**)
 - Automatic Rail Weighbridges (**OIML R106**)
 - Multidimensional Measuring Instruments (**OIML R129**)



Committee Meeting 2020

Technical work

- ▶ New documents based on WELMEC **Guide 7.2**
 - Guide 7.3 Reference Architecture
 - Guide 7.4 Exemplary Applications (inclusive **remote download of LRS**)
 - Guide 7.X SW in NAWIs

- ▶ Technical discussions in WGs
 - Clash between EU legislation on electricity (**smart meters**) and **MID** → **a revision of MID** (anyhow, it is overdue) ?
 - Watermeters: issue with special equipment or additional tool in connection with Annex 1, article 7.6 MID, cooperation with CEN 92/WG 2



WELMEC – EURAMET

History

- ▶ 2016-7: establishment of a joint task group to study the matter
- ▶ Common stakeholders, a half of the participants at respective org.structures are the same
- ▶ Follow up after EURAMET GA 2017:
Joint task group focuses on the **form of collaboration**
→ 3 possible scenarios presented to WELMEC Committee Meeting / EURAMET GA 2018:
 - A) Two independent organisations collaborating based on a MoU
 - **B) Two organisations with a common support structure**
 - C) Creation of a single metrology organisation (in Europe)
- ▶ Com meeting 2018: preference to **scenario B**, however the concept of „common support structure“ not developed
- ▶ Within the EU registered associations (e.V.s in this case) **cannot charge for provision of services** → **scenario A**



WELMEC Secretariat

- ▶ In scenario A WELMEC had to establish its own secretariat
- ▶ From 16 October 2017 to 30 June 2020 the WELMEC Secretariat was operated by EURAMET e.V. based at the EURAMET offices in PTB Braunschweig, Germany
- ▶ The original idea: a **secondment from PTB**, PTB would charge WELMEC for this service, WELMEC will not become an employer
- ▶ Problem: after June 30, 2020 no such person was available (the contract of originally identified person with PTB has simply expired)
- ▶ After some consultation **WELMEC has become an employer**
- ▶ The Executive Secretary since July 1, 2020: **Mrs. Julia Micklinghoff**, sitting next to the EURAMET Secretariat in PTB Braunschweig



WELMEC

Technical issues

- electricity meters: reactive power, coming to terms with 4-quadrant meters (calculation of total energy phase per phase), various forms of interference (now only 2-150 kHz)
- DC electricity meters (EV): a standard on metrological parameters not yet available
- watermeters: manipulation with errors within MPEs solved, influence of intermittent flow still studied
- impact of digitalization – legally controlled MIs as IoT

We are well behind the fast technological developments !



WELMEC

Thank you for your attention !

www.welmec.org



Common strategic objectives (1)

Increased visibility

▶ Aim

- Present a common face of metrology in Europe, easily accessible to the stakeholders

▶ Actions

- Develop a **coordinated** strategy for external **communication**
- Develop an **information platform** for metrology related content for the stakeholders, with a common appearance towards the outside world and coordinated web content of both organisations
- Coordinate the **newsletters** and other **publications**.



Common strategic objectives (2)

Increased influence and better regulation

▶ Aim

- Coordinated contribution to the **development of regulation** (EU-level)
- Recognition of **contributions** that **metrology** makes
- Be recognised as **first contact** for metrology related questions
- **Gain support** and resources for our work

▶ Actions

- Establish a mechanism for **coordinated and timely responses to EC consultations**
- Provide **coordinated inputs** to relevant standard developing organisations, European policies and regulations .
- **Establish strategic partnerships** at European level to promote the benefit of metrology.



Common strategic objectives (3)

Increased capacity

▶ Aim

- **Support the members** and associates of both organisations to develop the European metrology system.

▶ Actions

- Provide a platform for an **effective information sharing** and knowledge transfer in the areas: metrology infrastructure, training courses and materials.
- Initiate, develop and implement activities to assist members in **achieving metrological capability** in specific areas by giving special attention to the needs of emerging members .