

International Legal Metrology Update

for the 2017 NCWM Annual Meeting in Pittsburgh



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Software

OIML TC5/SC2 (Germany is the Secretariat)

- **Project proposal approved at the 2016 CIML meeting to initiate the revision of OIML D 31 “*General Requirements for Software-controlled Measuring Instruments.*”**
- **This document serves as guidance for the software requirements in all of the OIML International Recommendations.**
- **In April, 2017, a 1st Working Draft (WD) of the D 31 was received and circulated to the NTETC Software Sector. Comments would be appreciated this month!**
- **D 31 Project Group Meeting is Scheduled for 20-21 September, 2017, in Berlin.**
- **The US plans to request that the scope of D 31 be expanded to include software verification.**





Load Cells

OIML TC9:

Instruments for Measuring Mass and Density

(U.S. is Secretariat)

- **Votes and comments were received from the Project Group (TC9/p1) in January 2017 regarding R60, 5CD.**
- **Based upon the vote that draft was approved. However, it was recognized that there were a few significant issues remaining that were troublesome to some members of the PG.**
- **To resolve those issues a subgroup was formed and met in March 2017. A few changes to the document were drafted based upon the meeting.**





Load Cells

OIML TC9:

Instruments for Measuring Mass and Density

- **A subsequent R60, 5.1 CD was then developed and the PG was directed to vote on only the changes that resulted from the subgroup meeting**
- **The PG voted to approve the 5.1 CD which was forwarded to the BIML and posted as a Draft Recommendation to be voted on by the CIML**
- **The CIML preliminary online ballot passed in June, 2017, and the CIML will vote on this at the CIML meeting in October.**





Non-automatic Weighing Instruments

OIML TC9/SC1 (Germany and France are Co-Secretariats)

- **Project proposal approved at the 2016 CIML meeting to initiate the revision of OIML R76:2006 “*Non-automatic weighing instruments.*”**
- **R76 Project Group has also been tasked with recommending how to best approach the verification and inspection of these measuring instruments.**
- **Secretariat does not anticipate that significant changes will be made to the requirements in the Recommendation itself (only incorporate new technological developments) .**
- **Project Group meeting scheduled for December 6-7, 2017, in Braunschweig, Germany, at PTB.**



Members of U.S. Delegation being sought!

NIST Office of Weights and Measures Contacts: **Rick Harshman**



Automatic Weighing Systems (Arched Chute Type)

OIML TC9/SC2 (UK is Secretariat; Netherlands is Proposer)

- Project proposal approved at the 2016 CIML meeting to develop a new OIML Recommendation on “*Continuous totalizing automatic weighing instruments of the arched chute type*”.
- **Centripital force on an arched chute is measured.**
- **1 WD developed in small work group (not including U.S.), to be finalized late August, 2017.**
- **2 WD anticipated to full PG later this year, with PG meeting in early 2018.**



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Multi-dimensional Measuring Instruments

OIML TC7/SC5 (Australia is Secretariat)

- **2 CD of OIML R129:2000 was reviewed by the MDMD Work Group.**
- **The US submitted comments on the 2CD of OIML R129:2000 “Multi-dimensional Measuring Instruments” in April 2017.**
- **A 3CD of R129 is expected by the end of the year.**
- **Significant interest to maximize harmonization between R129 and US requirements for these instruments.**



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Static Volume and Mass Measurement

OIML TC8/SC1 (U.S. and Netherlands are Co-Secretariats)

- **The Secretariat of this subcommittee was re-allocated from Germany to the US and the Netherlands (June 2016).**
- **A subcommittee meeting was held at the factory of a U.S. manufacturer in Gothenburg, Sweden, in 2016. Comments on the 1CD packages of OIML R71 “Fixed Storage Tanks” and OIML R85 “Automatic Level Gauges” were resolved at the meeting.**
- **The preliminary ballot of R80-2 and R80-3 “Road and Rail Tankers with Level Gauging” received CIML approval in April 2017.**
- **The 2 CD drafts of R71 and R85 will soon be distributed for Project Group vote and comment, and a meeting of TC8/SC1 is scheduled for September 2017 in the Netherlands.**



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Dynamic Measuring Systems for Liquids other than Water

OIML TC8/SC3 (US and Germany are Co-Secretariats)

- **A new project for the revision of all 3 parts of R117 is underway**
 - it includes new requirements and test procedures for several additional systems, including:
 - Measuring systems for liquefied natural gas (LNG); and
 - Measuring systems for bunker fuel.
- **The 1CDs of the new R117-1 (111 pages) and R117-2 (187 pages) were distributed in 2016.**
- **A meeting of the R117 Project Group was held in July 2016 in the Netherlands to resolve international comments. The 2CD package of R117 (all three parts) is planned to be distributed later in 2017.**



NIST Office of Weights and Measures Contact: **Ralph Richter**



Prepackaged Products – Labeling and Net Quantity

OIML TC 6 (South Africa is the Secretariat)

- **R 79** “*Labeling Requirements for Prepackaged Products*” was approved by the CIML and published in December 2015. It is available for download on the OIML website.
- **OIML R 87** “*Quantity of Product in Prepackages*” was approved by the CIML in October 2016 and it is available for download on the OIML website.
- In July 2017 the U.S. voted “yes” on CIML adoption of an OIML Guide on “Establishing Bilateral Agreements for the Acceptance of Prepackage Certification.” It will be published later this year.
- **No further meetings of TC6 are scheduled at this time.**



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Moisture Meters For Cereal Grain and Oilseeds

OIML TC17/SC1

(US and China are Co-Secretariats)

- OIML R59 “*Moisture Meters For Cereal Grain and Oilseeds*” received final CIML approval in October 2016, and was published on the OIML web site in March, 2017.
- Many tests and requirements in R59 are the same as U.S. type evaluation requirements.
- R59 was revised in parallel with the development of the new OIML Recommendation R146 on “*Protein Measuring Instruments for Cereal Grains and Oil Seeds*” to promote harmonization, and was published on the OIML web site in February, 2017.



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OIML Certification System

OIML-CS

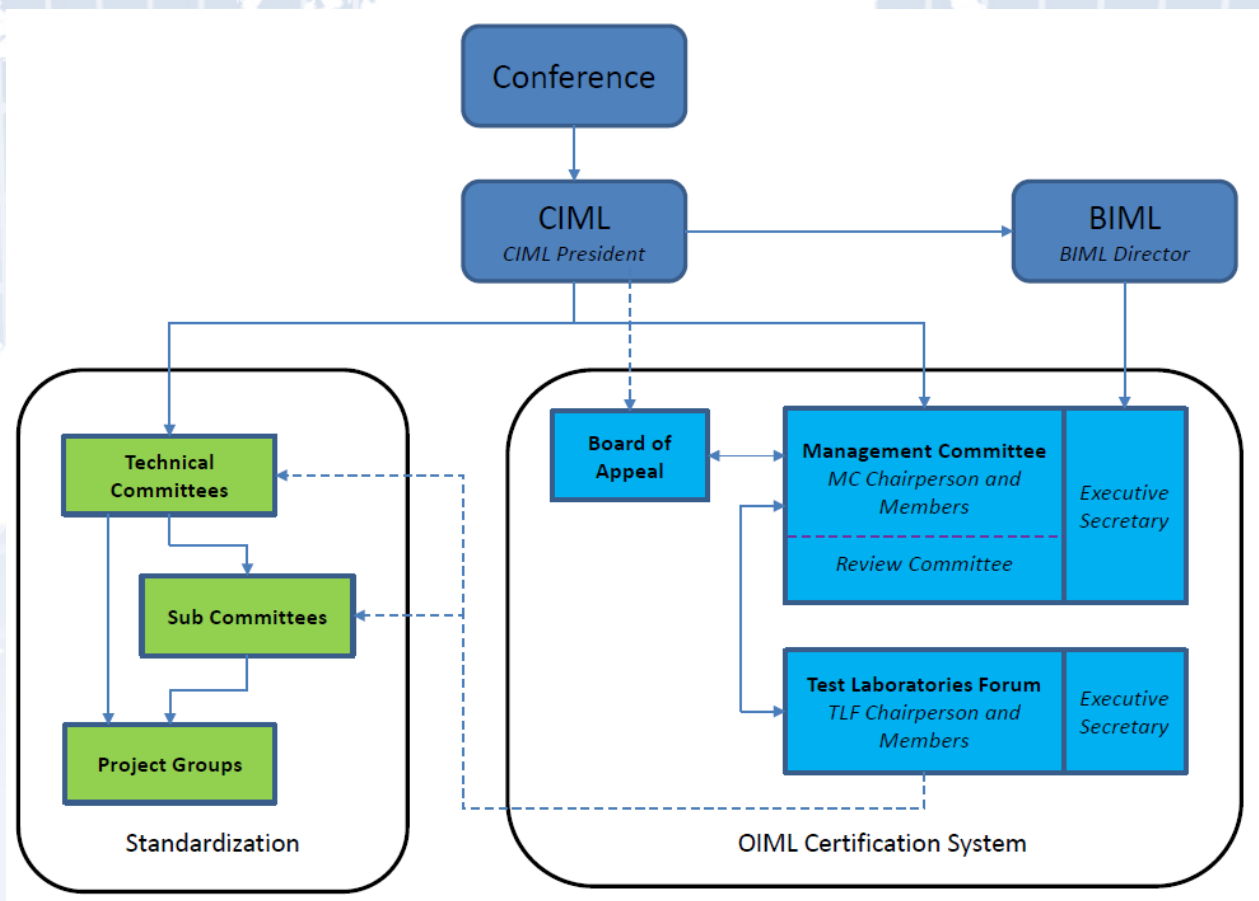
- The OIML Basic Certificate System and the OIML MAA Certificate System will be replaced with the OIML Certification System (OIML-CS), which has two Schemes (A and B), beginning January 1, 2018.
- A new “Management Committee” and “Review Committee” will oversee all aspects of the OIML-CS.
- Preliminary Management Committee (prMC) met in February, 2017, in Berlin and in June, 2017, in Shanghai, to develop the OIML-CS documents.
- Declarations for Issuing Authorities and Utilizers will be signed. “Additional National Requirements” will still be allowed.
- NCWM/NTEP will become a Utilizer for R 60 (load cells), as it was a Utilizing Participant under the MAA.





Proposed OIML Certification System (OIML-CS)

OIML CSPG





OIML Certification System

OIML-CS

- **OIML Recommendations going into Scheme A of the OIML-CS beginning January 1, 2018:**
 - OIML R 60 (Load Cells)
 - OIML R 76 (Non-automatic Weighing Instruments)
- **OIML Recommendations going into Scheme B of the OIML-CS beginning January 1, 2018, and transitioning to Scheme A beginning January 1, 2019:**
 - OIML R 46 (Active Electrical Energy Meters)
 - OIML R 49 (Water Meters)
 - OIML R 51 (Automatic Catchweighing Instruments)
 - OIML R 117 (Dynamic Measuring Systems for Liquids other than Water)
 - OIML R 137 (Gas Meters)
- **Other eligible OIML Recommendations will transition from Scheme B into Scheme A of the OIML-CS beginning January 1, 2020.**



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CIML and APLMF Meetings

- **The 52nd CIML Meeting will be held the week of 9-13 October 2017 in Cartagena, Colombia.**
 - **Some Key Topics**
 - **OIML Certification System**
 - **Directives for the Technical Work**
 - **Election of CIML President**
 - **Appointment of BIML Assistant Director**
- **The 24th APLMF Meeting will be held in Siem Reap, Cambodia, 25–27, October, 2017.**
- **Don Onwiler and Chuck Ehrlich to make presentation on "The U.S. Legal Metrology System" to the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) in Beijing on 30-31 October, 2017.**



OIML web site: www.oiml.org



Thank You

