

# International Legal Metrology Update

for the 2018 NCWM Annual Meeting in Tulsa



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# Load Cells

OIML TC9:

Instruments for Measuring Mass and Density

(U.S. is Secretariat)

- **The CIML voted to approve the Draft Recommendation of R60-Metrological Regulation of Load Cells at its meeting in October 2017**
- **The Recommendation was published in early 2018.**
- **A subgroup has been formed to develop a “gap analysis” document focusing on the significant changes made to the previous edition of R60 (2000 ed.) in the development of the current Recommendation.**
- **Member states including: Netherlands (as convener); Germany; China; U.K.; and the U.S. are participating in this subgroup**



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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.
- Comments for 1<sup>st</sup> Committee Draft were submitted in April 2018.
- The Project Group met 17-18 April 2018 in Dordrecht. US attendees included: Jim Pettinato, Terri Gulke, Jan Konijnenburg and Katya Delak.
- 1CD: General agreement on negotiated text by those present at meeting. Changes incorporated include input from two subgroups:
  - SG1: Software Verification
  - SG2: Operating Systems



# Software (cont.)

OIML TC5/SC2 (Germany is the Secretariat)

- **New subgroup formed – SG3**
  - **Relates to conflicting views of the terms “measurement data”, “measurement value”, and “measurement result”**
  - **Germany will lead, US will participate**
  - **Expect that SG3 must come to closure before 2CD is released.**
- **Revised 1CD now available on OIML site.**



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# Active Electrical Energy Meters

OIML TC12/p1 (Australia is the Secretariat)

- **R 46 “Active Electrical Energy Meters” is undergoing revision.**
- **R 46 Project Group met 9-11 May 2018 in Sydney.**
- **Meeting covered scope of revisions in light of differing approaches, particularly IEC and ANSI.**
- **It was agreed the revision will maintain a general R 46 document on metering with the following possible annexes:**
  - **Sub metering**
  - **Individual street light metering**
  - **Solar power purchase agreements**
  - **Micro grids**
  - **Digital metering**
  - **Electric Vehicle (EV) charging stations**



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# Active Electrical Energy Meters

OIML TC12/p1 (Australia is the Secretariat)

- **Working groups to be established reflect proposed annexes**
  - **Fundamental vs. Harmonic power**
  - **Electric Vehicle (EV) Charging Stations**
  - **Smart Street Lighting**
  - **Reactive Energy**
  - **Remote Displays and Meters with Modular Components**
- **US has provided HB 44 tentative code for EV Charging. Will participate in this working group.**
- **Another project group meeting is expected to take place within 12 months – perhaps aligning with the next IEC TC 13/WG 1 meeting.**



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# Non-Automatic Weighing Instruments

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

- **TC9/SC1 met December 6-7, 2017 in Braunschweig, Germany to discuss plans to revise OIML R76:2006 “*Non-Automatic Weighing Instruments.*”**
- **Several Project Groups have been tasked with reformatting and updating the Recommendation and with developing field verification and inspection procedures for these measuring instruments.**
- **Other Groups will develop proposals for adding up-to-date software requirements and consider including new test procedures for modules.**
- **First Working Draft planned to be distributed by September 2018.**



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# Automatic Weighing Systems (Arched Chute Type)

OIML TC9/SC2 (UK is Secretariat)

- Project proposal approved by CIML 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.**
- Following the development of a 2 WD, a teleconference-type meeting of the PG was held 13 March, 2018
- **Based on comments from the March 2018 meeting, a 1 CD was circulated in May 2018.**
- **Comments from PG on the 1 CD are due by 27 August, 2018.**



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# Multi-dimensional Measuring Instruments

OIML TC7/SC5 (Australia is Secretariat)

- **The 2CD revision 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 later in 2018.**
- **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 recently re-allocated from Germany to the US and the Netherlands.**
- **A subcommittee meeting was held at the Swedish factory of a U.S. - based manufacturer. Meeting participants made significant progress on four separate projects – including the resolution of most of the international comments on the 1CD packages of OIML R71 “*Fixed Storage Tanks*” and OIML R85 “*Automatic Level Gauges.*”**
- **The 2 CD packages of R71 and R85 will soon be distributed for Project Group vote and comment, and a meeting of TC8/SC1 is being planned for late 2018 in the Netherlands.**
- **OIML R80-2 and R80-3 “*Road and Rail Tankers with Level Gauging*” received final CIML approval in October 2017 and have now been published.**





# Dynamic Measuring Systems for Liquids other than Water

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

- **A project for the revision of all 3 parts of R117 is underway and 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 1CD packages of the new R117-1 (111 pages) and R117-2 (187 pages) were distributed, comments were received.**
- **A meeting of the R117 Project Group was recently held in the Netherlands to resolve international comments received on the 1CD package. The 2CD package of R117 (all three parts) is planned to be distributed soon with a meeting being planned for late 2018.**



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# 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 in December 2015 and is available for download from the OIML website.
- **OIML R 87 “*Quantity of Product in Prepackages*”** was approved by the CIML in October 2016 and is available for download from the OIML website.
- **OIML Guide on “Establishing Bilateral Agreements for the Acceptance of Prepackage Certification”** was approved by the CIML in 2017 and is available for download from the OIML website.
- **No further activities of TC6 are planned at this time.**





# OIML Certification System

## OIML-CS

- The OIML Basic Certificate System and the OIML MAA Certificate System have now been replaced (began January 1, 2018) with the OIML Certification System (OIML-CS), which has two Schemes (A and B).
- A new “Management Committee” and “Review Committee” oversees all aspects of the OIML-CS.
- The first meetings of the Review Committee and Management Committee were held in Sydney, Australia, during the week of March 19–23, 2018. C. Ehrlich and D. Flocken attended.
- Declarations for Issuing Authorities and Utilizers have been signed. “Additional National Requirements” are still allowed.
- NCWM/NTEP has signed a Declaration to be a Utilizer for R 60 (load cells), as it was a Utilizing Participant under the MAA.

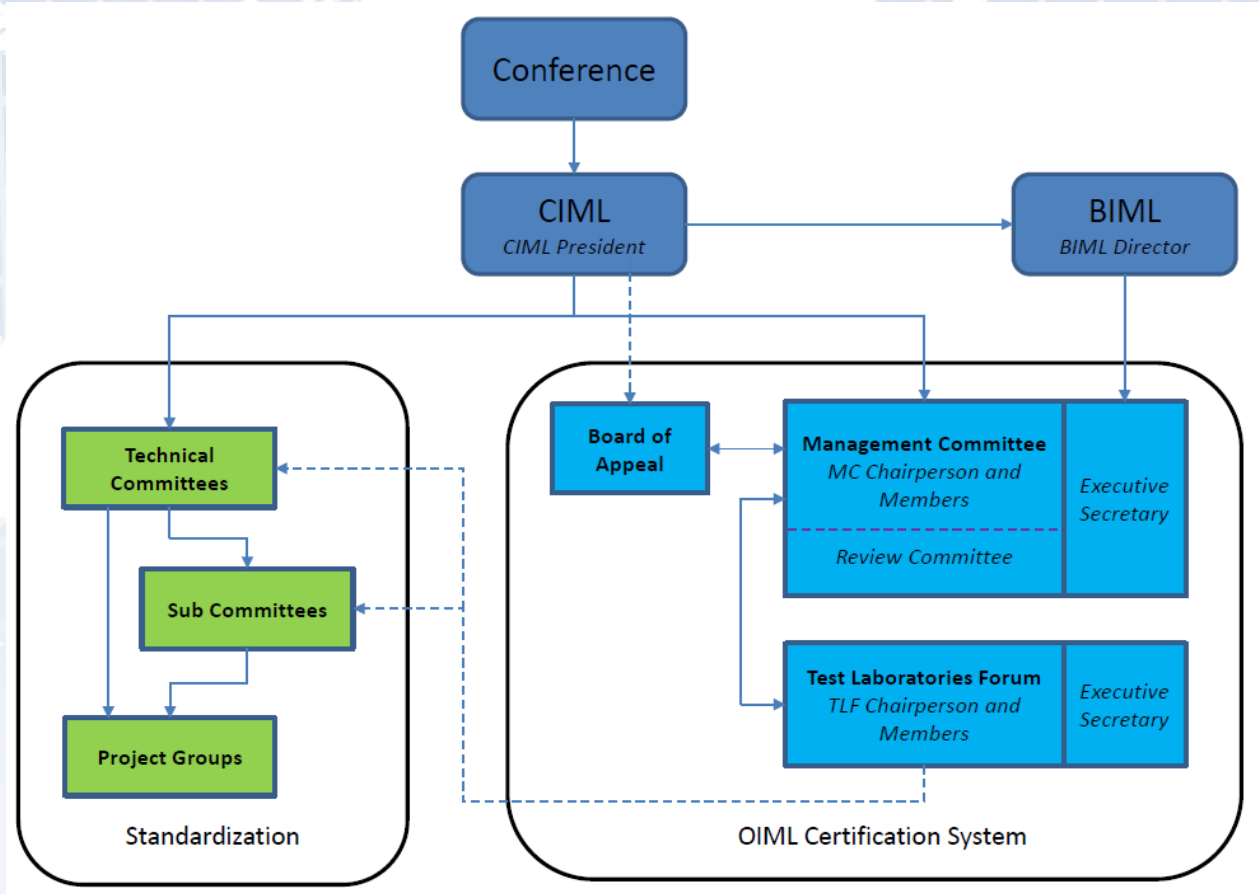


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# Proposed OIML Certification System (OIML-CS)

## OIML CSPG





# OIML Certification System

## OIML-CS

- **OIML Recommendations in Scheme A of the OIML-CS are:**
  - OIML R 60 (Load Cells)
  - OIML R 76 (Non-automatic Weighing Instruments)
- **OIML Recommendations in Scheme B of the OIML-CS beginning January 1, 2018 that will transition to Scheme A beginning:**
  - OIML R 46 (Active Electrical Energy Meters) (Jan. 1, 2020)
  - OIML R 49 (Water Meters) (Jan. 1, 2019)
  - OIML R 51 (Automatic Catchweighing Instruments) (July 1, 2019)
  - OIML R 117 (Dynamic Measuring Systems for Liquids other than Water) (July 1, 2019)
  - OIML R 137 (Gas Meters) (Jan. 1, 2020)
- **Other eligible OIML Recommendations will transition from Scheme B into Scheme A of the OIML-CS beginning January 1, 2020.**
- See OIML web site ([www.oiml.org](http://www.oiml.org)) for other details.





# CIML and APLMF Meetings

- **The 52<sup>nd</sup> CIML Meeting was held the week of 9-13 October 2017 in Cartagena, Colombia.**
  - **Some Key Topics decided were:**
    - **OIML Certification System**
    - **Directives for the Technical Work**
    - **Election of CIML President (Roman Schwartz, Germany)**
    - **Appointment of BIML Assistant Director (Paul Dixon, UK)**
- **The 24th APLMF Meeting was held in Siem Reap, Cambodia, 25–27, October, 2017. Regional training remains the main focus in APLMF.**
- **Don Onwiler and Chuck Ehrlich made presentations 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 October, 2017.**



**OIML web site: [www.oiml.org](http://www.oiml.org)**





# CIML and APLMF Meetings

- **The 53<sup>rd</sup> CIML Meeting will be held the week of 8-12 October 2018 in Hamburg, Germany.**
  - **Some Key Topics that will be decided are:**
    - **OIML Certification System topics**
    - **Conveners of new OIML Projects**
    - **Election of CIML First Vice President**
    - **Appointment of new BIML Director**
- **The 25th APLMF Meeting will be held in Christchurch, New Zealand, 7–9 November, 2018. An updated Working Group structure is being planned.**



OIML web site: [www.oiml.org](http://www.oiml.org)



**Thank You**

