

International Legal Metrology Update

for the 2016 NCWM Interim Meeting in San Diego



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International Legal Metrology Program
NIST Office of Weights and Measures



Load Cells

OIML TC9:

Instruments for Measuring Mass and Density
(U.S. is Secretariat)

- A 4CD of R60-1 was developed based on TC9/Project Group 1 comments regarding the 3CD and the resolutions of an earlier TC9/p1 meeting.;
- A 1st Working Draft of R60-2 (test report format) was also developed with assistance provided from a few members of the Project Group;
- R60-1, 4CD and R60-2, 1WD were circulated to stakeholders November, 2015 (<http://www.nist.gov/pml/wmd/ilmg/tc-9.cfm>);
- TC9/p1 P-members are to vote on R60-1 4CD by March 25, 2016. Comments on this document as well as comments on the Working Draft of R60-2 are due on the same date.



NIST Office of Weights and Measures Contact: **John Barton**



Arched Chute Type Mass Measurement

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

- **Proposal put forward at the 2015 CIML meeting by the Netherlands to develop a new OIML Recommendation on “Continuous totalizing automatic weighing instruments of the arched chute type”.**
- **Centripetal force on an arched chute is measured.**
- **Netherlands, Germany, UK regulate this type of instrument.**
- **Many CIML Members were unfamiliar with this technology, especially with the achievable levels of accuracy.**
- **It was agreed to withdraw this proposal. The Netherlands will prepare an article for the OIML Bulletin.**





Static Volume and Mass Measurement

OIML TC8/SC1 (Germany is the Secretariat)

- A subcommittee meeting was held in Maulburg, Germany in early December 2015.
- OIML R71 “*Fixed Storage Tanks*” and OIML R85 “*Automatic Level Gauges*” are being jointly revised. The 1CD packages of both Recommendations were distributed in late Dec 2015.
- The 2CD packages of R80-2 and R80-3 “*Road and Rail Tankers with Level Gauging*” were also distributed in December 2015.
- Another subcommittee meeting is being planned in Sweden in June 2016.





Dynamic Measuring Systems for Liquids other than Water

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

- **OIML R117-2 and R117-3 received final CIML approval with 100% consensus in November 2014. Both were published in April 2015.**
- **An approved project for the “immediate revision” of all 3 parts of R117 includes new requirements and test procedures for several additional systems, including:**
 - **Measuring systems for liquefied natural gas (LNG); and**
 - **Measuring systems for bunker fuel.**
- **Distribution of the 1CD of all three parts (~500 pages) is planned for January 2016.**
- **A meeting of the R117 Project Group is being planned for the last week of May 2016 in the Netherlands.**



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



Gas Metering

OIML TC8/SC7

(Netherlands is the Secretariat)

- All three parts of OIML R137 “*Gas Meters*” have now been published.
- A new ANSI B109 standard is under development that is significantly harmonized with OIML R 137. The standard has been reviewed by the ANSI B109 committee and the gas measurement committees of AGA and API.
- The CIML approved OIML R139 “*Compressed gaseous fuel measuring systems for vehicles*”, and R139 was published in February 2015.



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Ralph Richter and Juana Williams



Prepackaged Products – Labeling and Net Quantity

OIML TC 6

(South Africa is the Secretariat)

- **R 79** “*Labeling Requirements for Prepackaged Products*” was adopted by CIML and published on 10 December 2015. It is available for download on the OIML website.
- **OIML R 87** “*Quantity of Product in Prepackages*” was adopted on a preliminary ballot in 2015, however, several member states requested clarification on how the sampling plans can be applied. Expect new draft in spring 2016.
- A new guide on establishing bilateral agreements for acceptance of prepackage certification is under development by the Secretariat.
- **No further meetings of TC6** are scheduled at this time.





Moisture Meters For Cereal Grain and Oilseeds

OIML TC17/SC1

(US and China are Co-Secretariats)

- The 7th CD of R59 “*Moisture Meters For Cereal Grain and Oilseeds*” was approved by the Project Group in 2015, and a preliminary ballot of R59 is expected soon.
- **Many tests and requirements in R59 are the same as US type evaluation requirements.**
- R59 has been revised in parallel with development of the new Recommendation on “*Protein Measuring Instruments for Cereal Grains and Oil Seeds*” to promote harmonization ...





Protein Measuring Instruments for Cereal Grain and Oilseeds

OIML TC17/SC8

(Australia is the Secretariat)

- **Voting on a preliminary ballot of this new Draft Recommendation closed in November of last year.**
- **Voting results are still under review.**
- **US voted “no” since there are two tests in the Draft Recommendation that are not in R59.**





OIML Basic Certificate System and Mutual Acceptance Arrangement (MAA)

OIML TC 3/SC 5

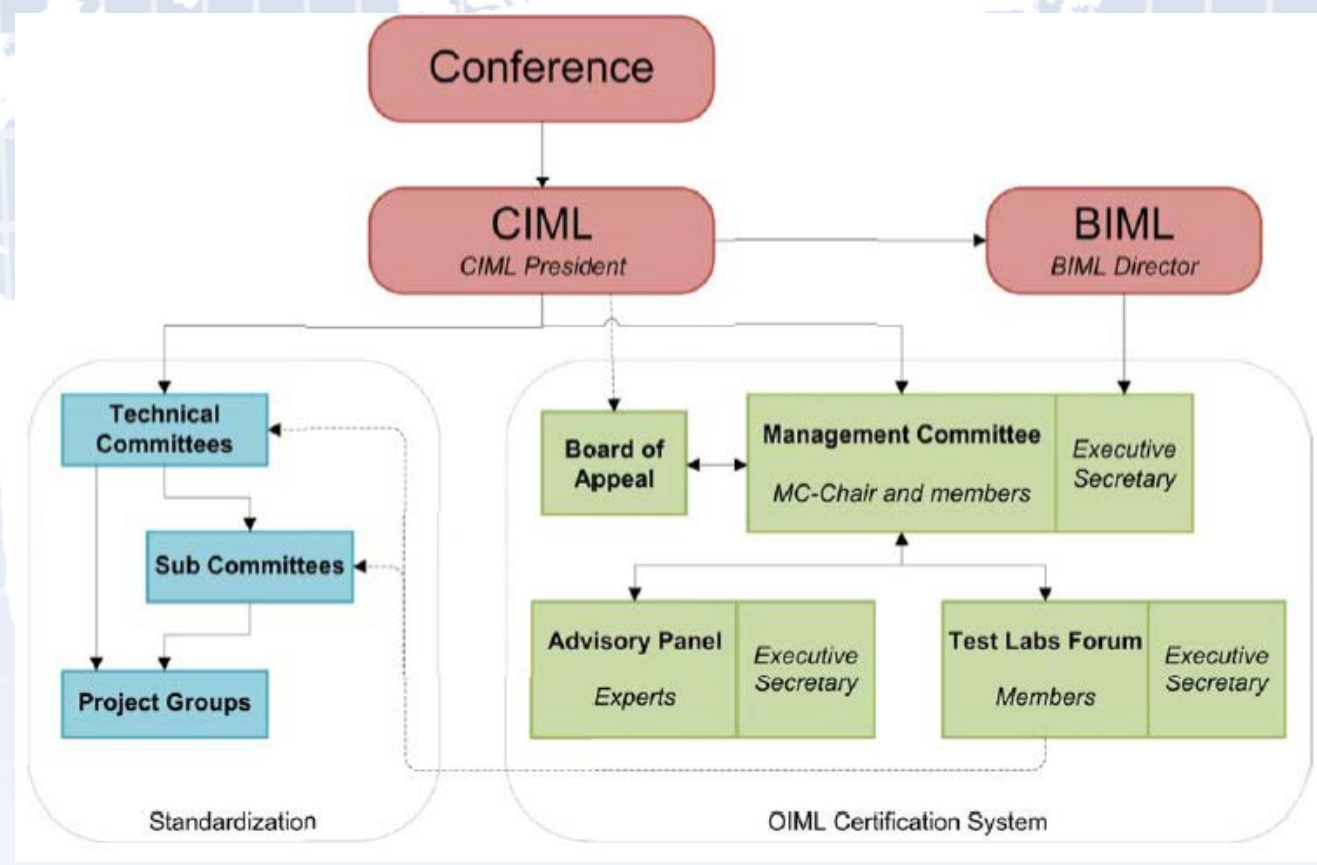
- An Ad Hoc Working Group was formed to examine possible efficiencies and other improvements to the OIML Basic Certificate System and the MAA Certificate System.
- **Restructuring is being proposed to incorporate a “Management Committee” that will better oversee all aspects of the OIML Certification System (OIML-CS).**
- **Committees on Participation Review (CPRs) and individual Declarations of Mutual Confidence (DoMCs) would no longer exist.**
- **The objective is to have a new OIML Certification System in place by January 2017.**





Proposed OIML Certification System (OIML-CS)

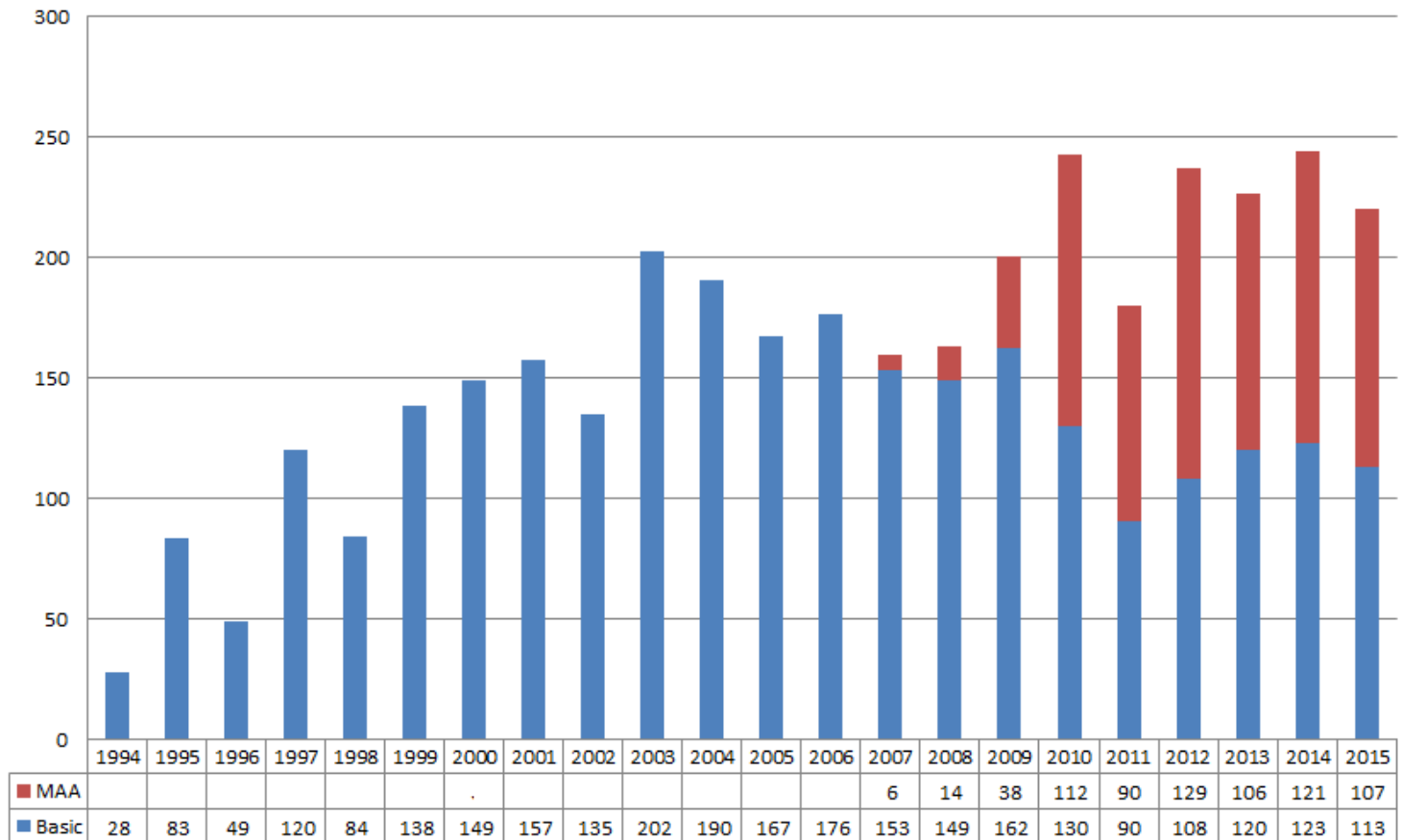
OIML CSPG





OIML Basic Certificate System and Mutual Acceptance Arrangement (MAA)

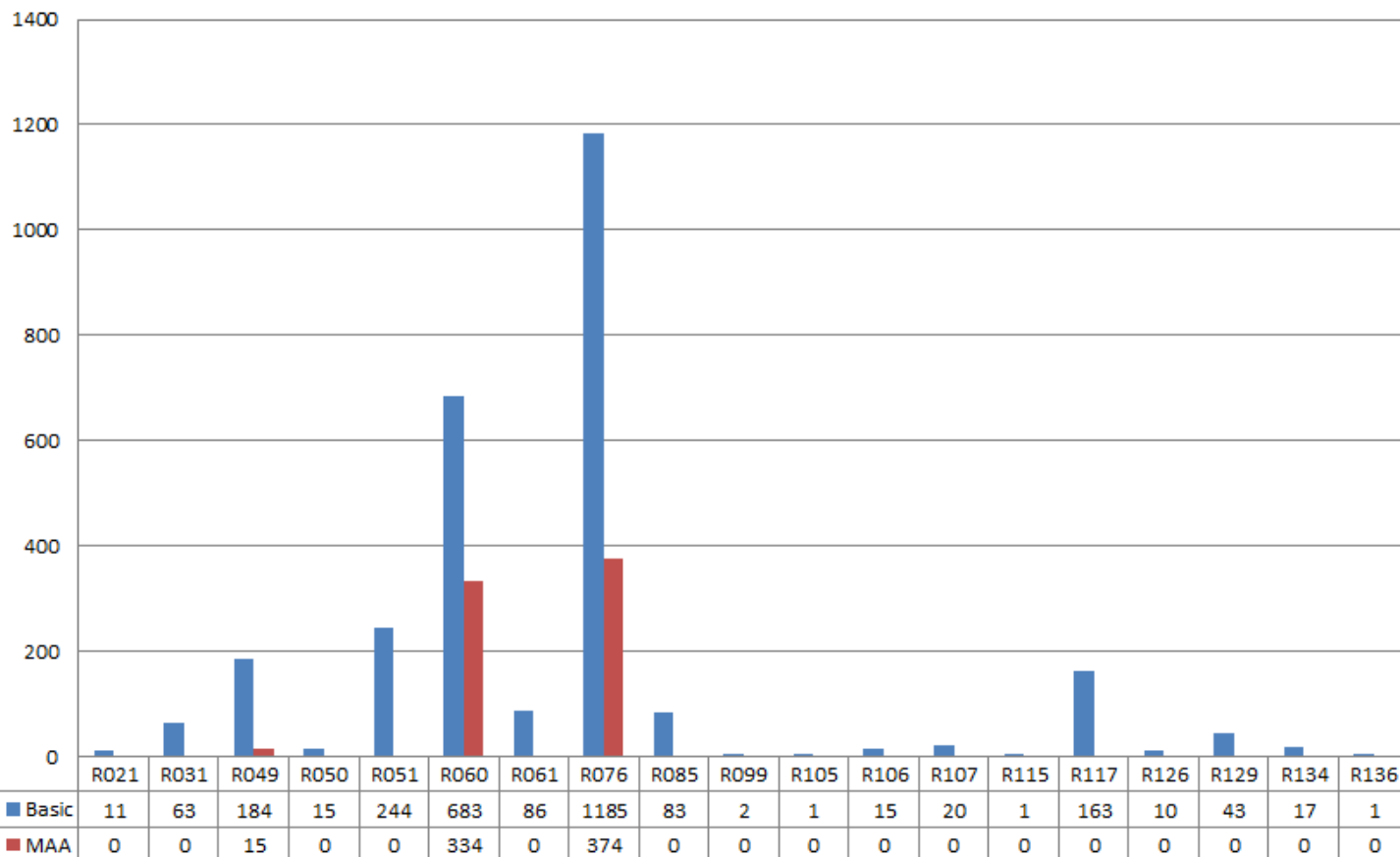
OIML Certificates - December 2015





OIML Basic Certificate System and Mutual Acceptance Arrangement (MAA)

OIML Certificates - December 2015





CIML and APLMF Meetings

- **50th CIML Meeting was held 19-23 October 2015**
 - **Arcachon, France**
- **Key Topics**
 - **Overhaul of the OIML Certificate System**
 - **Improvements to the OIML web site**
 - **Renewal of the BIML Director's appointment**
- **22nd APLMF Meeting was held 28-30 October 2015**
 - **Honolulu, Hawaii**



OIML web site: www.oiml.org



Thank You

