

Appendix A

Report of the Activities of the International Organization of Legal Metrology (OIML) and Regional Legal Metrology Organizations

National Institute of Standards and Technology (NIST), Office of Weights and Measures (OWM)

INTRODUCTION

The NIST, OWM is responsible for coordinating U.S. participation in OIML and other international legal metrology organizations. Learn more about OIML at www.oiml.org and about NIST, OWM at www.nist.gov/owm. Dr. Charles Ehrlich, Program Leader of the International Legal Metrology Program, can be contacted at (301) 975-4834, by fax at (301) 975-8091, or charles.ehrlich@nist.gov.

Note: OIML publications are available without cost at www.oiml.org.

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Table B
Glossary of Acronyms and Terms

Acronym	Term	Acronym	Term
ANSI	American National Standards Institute	ISO	International Standardization Organization
APEC	Asia-Pacific Economic Cooperation	IWG	International Work Group
APLMF	Asia-Pacific Legal Metrology Forum	LMWG	Legal Metrology Work Group
APMP	Asia-Pacific Metrology Program	MAA	Mutual Acceptance Agreement
B	Basic Publication	MTL	Manufacturers' Testing Laboratory
BIML	International Bureau of Legal Metrology	NIST	National Institute of Standards and Technology
BIPM	International Bureau of Weights and Measures	NTEP	National Type Evaluation Program
CD	Committee Draft ¹	OIML	International Organization of Legal Metrology
CIML	International Committee of Legal Metrology	OWM	Office of Weights and Measures
CTT	Conformity to Type	PG	Project Group
D	Document	R	Recommendation
DD	Draft Document ²	SC	Technical Subcommittee
DoMC	Declaration of Mutual Confidence	SIM	Inter-American Metrology System
DR	Draft Recommendation ²	TC	Technical Committee
DV	Draft Vocabulary ³	USNWG	U.S. National Work Group
GA	General Assembly	VIM	International Vocabulary of Metrology
IEC	International Electrotechnical Commission	VIML	International Vocabulary of Legal Metrology
IQ Mark	International Quantity Mark	WD	Working Draft ³

¹ CD: a draft at the stage of development within a technical committee or subcommittee; in this document, successive drafts are numbered 1 CD, 2 CD, etc.

² DD, DR, and DV: a draft document approved at the level of the technical committee or subcommittee concerned and sent to BIML for approval by CIML.

³WD: precedes the development of a CD; in this document, successive drafts are number 1 WD, 2 WD, etc.

**Details of All Items
(In order by Reference Key)**

I. REPORT ON THE ACTIVITIES OF THE OIML TECHNICAL COMMITTEES

This section reports on recent activities and the status of work in the OIML Technical Committees (TCs), Technical Subcommittees (SCs), and Project Groups (PGs) of specific interest to members of the National Conference on Weights and Measures (NCWM). Schedules of future activities of the TC/SC Secretariats, PG Conveners, the U.S. National Work Groups (USNWGs), and the International Work Groups (IWGs) and Project Groups of the TCs and SCs are also included.

TC 3/SC 5 Conformity Assessment (United States)

The OIML Basic Publications B 3:2011, *Certificate System*, and B 10:2012, *Mutual Acceptance Arrangement (MAA)*, are the core documents underpinning the OIML Certificate System. An amendment to B 10 was approved by the CIML that allows for the voluntary use of test data from manufacturer's test laboratories (MTLs) under specially supervised conditions (NCWM has adopted the position that it will not accept test data under the MAA that was obtained from MTLs). An MAA workshop was held in conjunction with the 2013 CIML Meeting (in Vietnam) to gather experiences of the various MAA stakeholders in the MAA. Based on the outcome of this workshop and MAA discussions at the 2013 CIML Meeting, OIML has established an *Ad-Hoc* Working Group (WG) consisting of interested CIML members, Committee on Participation Review (CPR) members, and representatives of manufacturers' associations. This WG is tasked with reviewing the structure, rules, and procedures governing the operation of the MAA (and the role of Utilizing Participants), with a view to increasing the efficiency of the operation of the MAA, and, if necessary, amending their internal (MAA) documents and suggesting to TC 3/SC 5 appropriate amendments to OIML Publication B 10. This *Ad-Hoc* WG is chaired by the CIML first Vice-President Dr. Roman Schwartz of Physikalisch-Technische Bundesanstalt (PTB) (Germany), and held its first meeting on March 20 - 21, 2014, at NIST. Mr. Darrell Flocken from NCWM attended, as did Mr. Rob Upright, President of the U.S. Scale Manufacturer's Association (SMA), and Mr. Dmitri Karimov, President of the U.S. Meter Manufacturer's Association (MMA). Three Task Groups (TGs) were established that are looking into 1) improving the international awareness and use of the OIML MAA, 2) developing a more robust model for operation of the CPR, and 3) evaluating the impact that termination of the Basic System for categories already covered by the MAA (load cells, NAWIs, and water meters) would have on all stakeholders. Reports from these three TGs will be presented at the 2014 CIML Meeting in November 2014, in Auckland, New Zealand.

The 2 CD of a new OIML document entitled *The Role of Measurement Uncertainty in Conformity Assessment Decisions in Legal Metrology* has been developed by the Secretariat (Dr. Charles Ehrlich). For a copy of this document, please contact Dr. Ehrlich at (301) 975-4834 or charles.ehrlich@nist.gov. Comments were submitted to the Secretariat by June 30, 2014. Please see the MAA section in the National Type Evaluation Program (NTEP) Committee Report of this publication for more details on the activities of TC 3/SC 5. Please contact Dr. Ehrlich for more information on the activities of this Subcommittee.

TC 5/SC 1 Environmental Conditions (Netherlands)

OIML D 11 *General requirements for measuring instruments - Environmental conditions* was approved by the CIML in October 2013, and was published in December 2013. This is a very important document in the OIML system and is used by all of the OIML TCs as a general reference for technical and testing requirements on all measuring instruments. Highlights of this recent revision cycle include: expanding the terminology section, updating several testing sections to reflect the latest International Electrotechnical Commission (IEC) reference standards, and including a new environmental class (E3) for a non-mains local source of electrical power supply. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov, if you would like further information on TC 5/SC 1 or OIML D 11.

TC 5/SC 2 Software (Germany and BIML)

The OIML D 31, *General Requirements for Software-controlled Measuring Instruments*, has been published, and it will serve as guidance for software requirements in International Recommendations by OIML TCs. The United States participated in the technical work on this document and submitted votes and comments on several drafts of the document. A new project on software verification was approved by CIML, and the United States is waiting for the first draft of this document. Please contact Dr. Ambler Thompson at (301) 975-2333 or ambler@nist.gov if you would like to discuss OIML software efforts.

TC 6 Prepackaged Products (South Africa)

After an online CIML vote was conducted, it was decided that the TC 6 project to develop an OIML International Quantity Mark (IQ Mark) would be terminated. The United States had already voted in favor of terminating this project, on the grounds that the effort to manage and certify quality control systems would have added unnecessary extra costs, with no value added, to all participating suppliers. At the same time, another CIML vote was conducted on a proposal for a new TC 6 project, *Guidance for defining the system requirements for a certification system for prepackages*. The United States voted against this proposal, on the grounds that even such an OIML guidance document could be construed as endorsing an OIML IQ Mark program. At the CIML meeting in October 2013, it was decided to move forward with the drafting of this publication.

Besides the IQ Mark project, two other important projects are under discussion in TC 6: a revision of OIML Recommendation (R) 87 *Quantity of Product in Prepackages* (the OIML equivalent to NIST Handbook 133, *Checking the Net Contents of Packaged Goods*) and a revision of OIML R 79 *Labeling Requirements for Prepackaged Products*. The NIST Statistical Engineering Division has been participating in a small *ad-hoc* WG to improve the statistics in R 87. A 1 CD of R 87 has been developed and circulated for comment by the Secretariat. The draft contained proposed revisions that NIST OWM believes is unnecessarily complex and, therefore, subject to easy misinterpretation, and another that appeared to go beyond the scope of package labeling requirements. After consulting with the Chairman of the NCWM Packaging and Labeling Subcommittee about the proposed revisions to both R 87 and R 79, the United States voted “no” on R 79 (votes are not taken on 1 CDs, so only comments were submitted on R 87). The main reason for opposing both drafts is they include proposed definitions for prepackage, packaging material, and product that are likely to result in confusion for consumers and packers alike. A meeting of TC 6 was held in Switzerland in September 2013.

The Secretariat has now distributed a 4 CD of R 79; it was revised to eliminate one of the definitions, which contained language, that we and other TC 6 members believed were confusing. The United States voted “yes” on the 4th CD and submitted some additional suggestions to clarify the language regarding references to CODEX labeling requirements for drained weight. The next meeting of TC 6 will be in September 2014 in South Korea.

For more information on the activities of this Committee, and to participate in the U.S. review of these CDs, please contact Mr. Ken Butcher at (301) 975-4859 or kbutcher@nist.gov.

TC 8 Measurement of Quantities of Fluids (Japan)

The CIML has approved projects to revise the following TC 8 documents: R 63, *Petroleum Measurement Tables* (1994), and R 119, *Pipe Provers for Testing of Measuring Systems for Liquids Other Than Water* (1996). Both of these documents are important for other OIML recommendations involving liquid measurement. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov, if you would like copies of the documents or to participate in any of these projects.

TC 8/SC 1 Static Volume and Mass Measurement (Germany)

The United States chairs the Project Group that is drafting new sections of OIML R 71, *Fixed Storage Tanks*, and R 85, *Automatic Level Gages for Measuring the Level of Liquid in Fixed Storage Tanks*, to add specific requirements for specialized tanks. OIML R 80-2, *Road and Rail Tankers, Test Methods*, is being developed by Germany. A meeting of TC 8/SC 1 has been proposed for December 2014 in Germany. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov, if you would like copies of the documents or to participate in any of these projects.

TC 8/SC 3 Dynamic Volume and Mass Measurement for Liquids Other Than Water (United States and Germany)

New annexes for measuring systems for foaming potable liquids, for pipelines, and for aircraft refueling have been added to OIML R 117-2, *Dynamic Measuring Systems for Liquids Other Than Water, Part 2, Test Methods*. A meeting of the R 117 International Project Group was held in October 2013 in Teddington (London), United Kingdom and was hosted by the UK National Measurement Office. Representatives of major manufacturers of these systems and liaison organizations actively participated in the meeting. These technical experts provided a depth of experience and technical expertise that proved highly valuable during the meeting. The 2 CD of R 117-2 was distributed late in December 2013; it was approved by the Project Group with over 300 comments. The 1 CD of R 117-3 *Part 3, Test Report Format* was distributed in March 2014. A meeting of the R 117 International Project Group was held in April 2014 in Chicago to discuss international comments on the 2 CD of R 117-2 and the 1 CD of R 117-3. If you have any questions or would like to participate in the next phases of this project, please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov.

TC 8/SC 5 Water Meters (United Kingdom)

OIML, the International Standardization Organization (ISO), and the European Committee for Standardization (CEN) have worked together to harmonize requirements for water meters using OIML R 49 *Water Meters Intended for the Metering of Cold Potable Water and Hot Water Parts 1, 2, and 3* as the base document. The United States submitted comments on the 3 CD of the harmonized document in September 2012 and participated in a meeting of the Joint Working Group of these three organizations in London, England, in October 2012. The American Water Works Association Committee on Water Meters is assisting in these efforts. The DR of R 49 passed its CIML preliminary ballot in May 2013, and R 49 received final CIML approval in October 2013. R 49 published in early 2014. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov, if you would like additional information on this effort.

TC 8/SC 6 Measurement of Cryogenic Liquids (United States)

In May 2013, the Secretariat for R 81, *Dynamic Measuring Devices and Systems for Cryogenic Liquids* distributed a first working draft (1 WD) of R 81 to TC 8/SC 6 and the USNWG for their review and comment. Nine members of the R 81 project group submitted comments on Parts 1 and 2 of R 81 by the September 2013 deadline. To obtain more information or to participate in this project, please contact Ms. Juana Williams at (301) 975-3989 or juana.williams@nist.gov.

TC 8/SC 7 Gas Metering (Netherlands)

OIML R 137-1 and R 137-2, *Gas Meters; Part 1: Metrological and Technical Requirements* and *Part 2: Metrological Controls and Performance Tests* were published in 2012. Extensive U.S. comments on the 1 CD, the 2 CD, and the DR were developed in cooperation with the measurement committees of the American Gas Association. CIML voting on the preliminary ballot of R 137-3 *Part 3: Report Format for Type Evaluation* closed in March 2014 and is expected to have final approval in November 2014. The OIML R 137 document is especially important to the U.S. interests because the American National Standards Institute (ANSI) B 109 committee on gas measurement is using the published R 137 to create a new performance-based standard for gas meters in the United

States. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov, if you would like to participate in these efforts or if you would like to obtain a copy of any of these gas measurement documents.

The CIML preliminary ballot on OIML R 139, *Compressed gaseous fuel measuring systems for vehicles*, closed in March 2014. This standard is important to U.S. stakeholders, especially in the effort to maximize harmonization between domestic and international legal metrology requirements used for the delivery of alternative fuels such as hydrogen gas and compressed natural gas (CNG). The United States voted “yes” and submitted comments on the preliminary ballot of R 139, and final approval is expected in November 2014. To obtain more information or to participate in this project, please contact Ms. Juana Williams at (301) 975-3989 or juana.williams@nist.gov.

TC 9 Instruments for Measuring Mass (United States)

The revision of OIML R 60 *Metrological Regulation for Load Cells* is planned to cover everything from the basic principles of R 60 (e.g., tolerances and accuracy classes) to exploring the addition of new requirements. The United States distributed the 2 CD of R 60 Parts 1 and 2 (*Metrological and technical requirements and Metrological controls and performance tests*) in June 2013. International Project Group (PG) members were asked to review this 2 CD for vote and comment. The majority of voting responses were negative indicating that the draft needed to be further developed by the Project Group. A meeting of TC 9/P 1 was held at NIST in Gaithersburg, Maryland, on March 17 - 18, 2014 to discuss unresolved issues regarding the R 60 revision. This meeting was one of three OIML meetings held that week, meetings of the CPR and MAA *Ad Hoc* WG (see section on TC 3/SC 5) were also convened. Input from the TC 9/P 1 meeting and comments received pertaining to the 2 CD of R 60 will be incorporated into a 3 CD that is expected to be circulated in July 2014. For more information on TC 9 activities, please contact Mr. John Barton at (301) 975-4002 or john.barton@nist.gov.

TC 9/SC 2 Automatic Weighing Instruments (United Kingdom)

The DR of OIML R 106, Part 1, *Automatic Rail Weighbridges*, was published in 2012. The DR of R 106-2 was approved by the CIML in 2012 and subsequently published in 2013.

All three parts of OIML R 50, *Continuous Totalizing Automatic Weighing Instruments* (Belt Weighers), have been forwarded to the BIML, and it is expected that they will receive final CIML approval in November 2014. Parts 1 and 2 (technical/metrological requirements and test procedures) were approved in the 2013 CIML preliminary ballot and the FDRs (Final Draft Recommendation) are currently under preparation. The 2 CD of R_50-3 was approved in the TC 9/SC 2 ballot in September 2013 and was sent to the BIML in March 2014. To receive copies of these documents or to obtain more information on the work of this Subcommittee, please contact Mr. John Barton at (301) 975-4002 or john.barton@nist.gov.

TC 17/SC 1 Humidity (China and United States)

The 6 CD of OIML R 59, *Moisture Meters for Cereal Grains and Oilseeds*, was distributed in March 2013, and it was requested that comments be returned in June 2013. Meetings of TC 17/SC 1 and TC 17/SC 8 were held at NIST in Gaithersburg in July 2013 to discuss these returned comments and to develop the next draft. The 7 CD will be distributed for a vote later this year. Please contact Ms. G. Diane Lee at (301) 975-4405 or diane.lee@nist.gov if you would like to participate in this IWG.

TC 17/SC 8 Quality Analysis of Agricultural Products (Australia)

Meetings of TC 17/SC 1 and TC 17/SC 8 were held at NIST in Gaithersburg, Maryland, in July 2013 to discuss international comments received on the 4 CD of a draft document *Measuring Instruments for Protein Determination in Grains*. Australia plans to soon distribute a 5 CD of this draft document for a vote. Please contact Ms. G. Diane Lee at (301) 975-4405 or diane.lee@nist.gov, if you would like to participate in this IWG.

OIML Mutual Acceptance Arrangement (MAA)

The report on the OIML MAA can be found in the NTEP section of this document. For further information on the MAA and its implementation, please contact Dr. Charles Ehrlich at (301) 975-4834 or e-mail charles.ehrlich@nist.gov.

II. REPORT ON THE 48th CIML MEETING IN HO CHI MINH CITY, VIETNAM IN OCTOBER 2013

Mr. Peter Mason, CIML member from the United Kingdom and President of the CIML, opened the meeting and gave the President's Report.

Mr. Stephen Patoray, who has been serving as BIML Director since January 2011 provided several reports on financial and administrative matters at the BIML, including improvements that have been implemented since his arrival at the BIML. After consideration of an external auditor's review, the CIML approved the 2012 accounts and instructed its President to present them to the 15th OIML Conference.

The CIML elected Dr. Yukinobu Miki, the CIML Member for Japan, as second Vice-President for a six-year term; the Committee also decided to renew the contract of Mr. Ian Dunmill, BIML Assistant Director, for a five-year term starting in March 2014.

The CIML welcomed Colombia as a new Member State and Zambia as a re-instated Member State. The CIML also welcomed Iraq, Uganda, and Yemen as new Corresponding Members – and Guinea, Korea (DPR), and Rwanda as re-instated Corresponding Members.

The Committee, noting the report given by the BIML on its activities pertaining to developing country matters, recognized the importance of coordinating the various projects and initiatives promoted by the OIML, individual Member States and Corresponding Members, and other bodies with an interest in promoting the economic development of countries and economies with emerging metrology systems. The CIML decided to set up an advisory group to help carry out wide consultation, to seek additional suggestions, and to build up links with other bodies which have a contribution to make in the area of developing countries.

The BIML reported on the implementation of OIML B 6-1:2012 Directives for OIML technical work. The CIML approved a fairly minor revision to B 6-1, but decided to postpone further work on B 6 until sometime in the future.

The CIML approved the following draft publications:

- OIML V 1, *International vocabulary of terms in legal metrology (VIML)*;
- OIML R 46-3, *Active electrical energy meters – Part 3: Test report format*;
- OIML R 49, *Water meters for cold potable water and hot water – Part 1: Metrological and technical requirements, Part 2: Test methods, and Part 3: Test report format*;
- New OIML Recommendation *Instruments for continuous measuring CO and NOx in stationary source emissions*;
- OIML D 11, *General requirements for measuring instruments – Environmental conditions*; and
- OIML B 14, *Procedure for the election of the CIML President and Vice-Presidents*.

The CIML confirmed its decision to start as a new project in TC 4, Measurement standards and calibration and verification devices, the revision of OIML D 8:2004, *Measurement standards. Choice, recognition, use, conservation, and documentation*.

The CIML also confirmed its decision to start as a new project in TC 6, Prepackaged products, the drafting of a new publication *Guidance for defining the system requirements for a certification system for prepackages*, noting the reservations about this effort expressed by several of the Member States (including the United States).

Noting the oral report on the outcome of the seminar to review the operation of the OIML Mutual Acceptance Arrangement (MAA) that was given by the CIML first Vice-President, Dr. Roman Schwartz of PTB (Germany), the CIML decided that there is a need to raise awareness of the MAA system among those not currently using it, in particular among potential Utilizing Participants. The CIML urged its Members, the participants in the MAA, and the BIML to actively promote the MAA among legal metrology authorities and measuring instrument manufacturers worldwide. The CIML encouraged its Members to draw to the attention of trade negotiators within their countries the opportunities which OIML Recommendations and the MAA structures offer as means of reducing barriers to trade and the possibility they provide to enhance both bilateral and multilateral trade negotiations.

The CIML instructed the BIML, in its capacity as secretariat of the MAA Committees on Participation Review (CPR), to set up an *ad-hoc* WG consisting of interested CIML and/or CPR members and representatives of manufacturers' associations to consider how this awareness can be raised, and to provide secretarial support to this WG. The *ad-hoc* WG was also tasked with reviewing the CPRs and their structure, the rules and procedures governing the operation of the MAA, and the role of Utilizing Participants, with a view to increasing the efficiency of the operation of the MAA. Dr. Roman Schwartz will chair this *ad-hoc* WG and report on its activities to the 49th CIML Meeting. (See also the TC 3/SC 5 section of this OIML report.)

III. FUTURE OIML MEETINGS

The CIML accepted the invitation of New Zealand to host the 49th CIML Meeting in Auckland, New Zealand, in November 2014.

The next OIML Conference will be held in 2016; the venue and dates for this Conference will be decided by the CIML at a future date.

V. REGIONAL LEGAL METROLOGY ORGANIZATIONS

A meeting of the Inter-American Metrology System (SIM) General Assembly is organized annually and is the event where delegates from National Metrology Institutes of the Americas meet to discuss important issues. This past year, the SIM General Assembly was held in Santiago de Queretaro, Mexico, in October 2013. Mr. Jose Dajes Castro, from INDECOPI in Lima, Peru, serves as the SIM President. The Legal Metrology Working Group is chaired by Mr. Emilio Löbbe from INTI/Argentina. The organization is working to build capacity in legal metrology for SIM member countries. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov for more information on SIM.

The 20th Meeting of the Asia Pacific Legal Metrology Forum (APLMF) was held November 5 - 8, 2013, in Yogyakarta, Indonesia. Sixteen APLMF Member Economies participated in this meeting. The People's Republic of China holds the Presidency and Secretariat of APLMF. Mr. Changcheng, APLMF President and Vice Minister of AQSIQ, chaired the meeting. APLMF activities are facilitated through its seven work groups.

The main objectives of APLMF are to coordinate regional training courses in legal metrology and to provide a forum for exchange of information among legal metrology authorities. Changes in APEC priorities are making it more difficult to achieve funding. While feedback from the previously-held training courses has been positive, it is becoming clear that in order to continue to receive funding for the training, APLMF needs to do a more thorough job of assessing and documenting the impact of the training courses on the economies that receive the training.

The most active WG is on Training Coordination, chaired by Australia. Training on "Smart Electricity Meters" was held in June 2013 in Bandung, Indonesia. Eighty students from APLMF member economies participated in this training. In November 2013, a course on "Traceability in Rice Moisture Measurement" was held in Chiang Mai, Thailand.

The WG on Training Coordination reported on the results of a 2013 survey of APLMF member economies that requested information on the benefits of APLMF training that was conducted in the period 2005 to 2013. Clearly, the results indicated that the more than 20 courses conducted by APLMF in that 8-year time period were highly

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valued by the member economies, promoted harmonization in the Asia-Pacific region, and frequently led to revised/improved legislation and regulations in the member economies.

Also discussed at the APLMF meeting was a planned PTB project to work with APLMF and APMP to promote/improve the metrological systems of developing economies in Asia. This project is still in the early-development stages, so much of the discussion at the APLMF meeting focused on selecting and prioritizing possible objectives of this project. If the project is approved and funded by the German ministry, it is possible that some of these funds could be used by APLMF to conduct future training.

The United States was represented at the APLMF meeting in Yogyakarta, Indonesia, by Mr. Ralph Richter, who served as acting-chair (for Dr. Charles Ehrlich) of the APLMF WG on MRAs. Mr. Richter gave a report and update on the OIML MAA (including the MAA seminar that was held in October 2013 in Vietnam) and presented the United States Country Report.

The 2014 APLMF meeting will be held in November 2014 in Wellington, New Zealand. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov for more information on APLMF.

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