

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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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
B	Basic Publication	MAA	Mutual Acceptance Agreement
BIML	International Bureau of Legal Metrology	MTL	Manufacturers' Testing Laboratory
BIPM	International Bureau of Weights and Measures	NIST	National Institute of Standards and Technology
CD	Committee Draft ¹	NTEP	National Type Evaluation Program
CIML	International Committee of Legal Metrology	OIML	International Organization of Legal Metrology
CTT	Conformity to Type	OWM	Office of Weights and Measures
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
<p>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.</p> <p>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</p> <p>³WD: precedes the development of a CD; in this document, successive drafts are number 1 WD, 2 WD, etc.</p>			

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 (TC) and Technical Subcommittees (SC) of specific interest to members of National Conference on Weights and Measures (NCWM). Schedules of future activities of the Secretariats, the U.S. National Work Groups (USNWG), and the International Work Groups (IWG) of the committees and subcommittees are also included.

TC 3/SC 5 Conformity Assessment (United States)

The subcommittee held a meeting in Paris, France, in October 2010 to discuss the revision of the Basic Publications (B) 3, *Certificate System* and B 10, *Mutual Acceptance Arrangement* (MAA). The International Committee of Legal Metrology (CIML) Preliminary Ballots on B 3 and B 10 closed in July 2011 without any negative votes, and a final CIML vote was held at the CIML Meeting in Prague, Czech Republic, in October 2011. Both B 3 and B 10 passed the CIML vote. International comments on a new document entitled *The Role of Measurement Uncertainty in Conformity Assessment Decisions in Legal Metrology* have been received and are being used by the Secretariat to develop the 2 Committee Draft (CD). 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. For more information on the activities of this subcommittee, please contact Dr. Charles Ehrlich at (301) 975-4834 or charles.ehrlich@nist.gov.

TC 5/SC 1 Environmental Conditions (Netherlands)

The Secretariat distributed the 1 CD revision of Document (D) 11, *General Requirements for Electronic Measuring Instruments*, in February 2011. 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. The United States submitted comments on the 1 CD in May 2011. The United States also participated in a meeting of TC 5/SC 1 to discuss the D 11 document and international comments on the 1 CD in Utrecht, The Netherlands, in June 2011. Highlights of the discussions in Utrecht included expanding the terminology section, updating several testing sections to reflect the latest International Electrotechnical Commission (IEC) reference standards, and including a new environmental class (“E 3”) for a non-mains local source of electrical power supply. The OIML Expert Report E 5, *Overview of the Present Status of the Standards Referred to in OIML D 11 General Requirements for Electronic Measuring Instruments* was recently published and updates all of the IEC references for testing requirements in D 11. The 2 CD of D 11 was received in January 2012 and comments were returned to the Secretariat in March 2012. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov, if you would like further information on this project.

TC 5/SC 2 Software (Germany and BIML)

The OIML D 31, *General Requirements for Software-controlled Measuring Instruments*, has been published and 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)

A project to develop an OIML International Quantity Mark (IQ Mark) is still ongoing. The IQ Mark is intended to eliminate the need for redundant inspections for compliance with legal metrology requirements for labeling and net contents. Receiving countries want imported packages to meet all of their legal metrology requirements, and packers in exporting countries want to ensure prepackages will not be rejected or require additional inspections after arriving in the destination country. The initial proposal for the program would require that participating

packagers meet specific requirements in order to participate in a program for quantity control and labeling of prepackaged goods. The United States is participating in a work group that is developing guidelines on acceptable manufacturing practices that would be used in the IQ Mark's accreditation programs. The United States believes the effort to manage and certify quality control systems will add unnecessary extra costs to all participating suppliers. Though there is significant opposition to the IQ Mark effort from several countries (including the United States, Denmark, Switzerland, and Canada), TC 6 continues to move forward with this project under the premise that such a voluntary system would be of value to developing countries. The United States voted "no" on the 2 CD of the IQ Mark document in May 2010 and received the 3 CD from the Secretariat in August 2011. The United States voted "no" on this draft as well. The Secretariat has indicated that if roughly half of the P-members of TC 6 continue to oppose this project, the Secretariat will recommend to CIML to stop the project.

NIST is assisting TC 6 in two other important projects: (1) 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 (2) a revision OIML R 79, *Labeling Requirements for Prepackaged Products*.

NIST hosted a meeting of TC 6 in Gaithersburg, Maryland, September 26 - 30, 2011. Please contact Mr. Ken Butcher at (301) 975-4859 or kbutcher@nist.gov, if you would like more information about the work of this subcommittee or to participate in any of these projects.

TC 8 Measurement of Quantities of Fluids (Japan)

In October 2011, CIML reassigned responsibility of TC 8 from Switzerland to Japan. Additionally, CIML has approved projects to revise the following two TC 8 documents: (1) R 63, *Petroleum Measurement Tables* (1994), and (2) 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 now chairs an IWG 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. 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)

Subcommittee work is continuing on the development of OIML R 117 2, *Dynamic Measuring Systems for Liquids Other Than Water, Part 2, Test Methods*, and R 117-3, *Test Report Format*. The first CD of R 117-2 was distributed in March 2011. While the 1 CD of R 117-2 generated over 400 international comments that will all need to be resolved, there was excellent acceptance of the methodology and concepts used in the complex new recommendation. A meeting of the IWG for the development of R 117 was held in Braunschweig, Germany, in November 2011 to resolve international comments on the 1 CD and to work to develop new annexes for measuring systems for foaming potable liquids for pipelines and for aircraft refueling. The IWG for the development of R 117 also continues to hold international webinars to accelerate the work on this high priority document. The 2 CD of R 117-2 will be distributed later in 2012, and the full TC 8/SC 3 subcommittee will hold a meeting in November 2012. 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, International Standardization Organization (ISO), and the European Committee for Standardization are working 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 Joint Working Group of these three organizations distributed the 2 CD of the harmonized document in May 2011 with international

comments returned in August 2011. NIST hosted a joint meeting of the three organizations in Gaithersburg, Maryland, in November 2011, and the 3 CD of the harmonized document was distributed in June of 2012. The American Water Works Association Committee on Water Meters is assisting in these efforts. Please contact Mr. Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov, if you would like copies of documents or to participate in this project.

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

The Secretariat for R 81, *Dynamic Measuring Devices and Systems for Cryogenic Liquids*, is working to complete project one to update: (1) electronic tests in accordance with the latest edition of OIML D 11 (2004) and/or the latest IEC and ISO standards; (2) technical requirements to include new developments in hydrogen measurements; and (3) current recommendations for density equations. OIML R 81 (1998) will be reformatted into two distinct parts in the format that is recommended for recently developed OIML recommendations. The Secretariat will ask members of TC 8/SC 6 and the USNWG to review and formally comment on the first draft of revised R 81, *Part 1: Metrological and Technical Requirements* and *Part 2: Metrological Controls and Performance Tests* in 2012. 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)

The Secretariat distributed the preliminary Draft Recommendation (DR) of OIML R 137-1 and R 137-2, *Gas Meters; Part 1: Metrological and Technical Requirements, and Part 2: Metrological Controls and Performance Tests* in May 2011. Extensive U.S. comments on both the 1 CD and the 2 CD were developed in cooperation with the measurement committees of the American Gas Association. The OIML R 137 document is especially important to the United States interests because the American National Standards Institute (ANSI) B 109 committee on gas measurement is using R 137 to create a new performance-based standard for gas meters in the United States. Meetings of the work group that is developing this new standard ANSI B 109.zero (109.0) were held in Savannah, Georgia, in February 2011; in Fort Worth, Texas, in September 2011; and in Seattle, Washington, in January 2012. R 137 was approved by direct CIML online approval in March 2012 and was published in May 2012. 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.

TC 9 Instruments for Measuring Mass (United States)

The CIML approved a new work item to revise OIML R 60:2000, *Metrological Regulation for Load Cells*. This revision 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 a first working draft revision of R 60, incorporating a major re-formatting of the document. USNWG members and TC 9 members were requested to return comments on R 60 by March 2011. A meeting was held September 19 - 20, 2011, in Braunschweig, Germany, to discuss the intended scope of R 60 that will be incorporated into a 1 CD of R 60, which is expected to be distributed later in 2012. For more information on these efforts, please contact Mr. John Barton at (301) 975-4002 or john.barton@nist.gov.

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

R 134 1, *Automatic Instruments for Weighing Road Vehicles in Motion and Measuring Axle Loads* has been approved by the CIML and published. The United States' comments concerning terminology and document scope were incorporated in the document. The test report format of this document, R 134 2, has also been published. The U.S. Federal Highway Administration is sponsoring a project wherein it is anticipated that both OIML R 134 and an American Society of Testing Materials standard will be used to help develop a new code in NIST Handbook 44, *Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, applicable to in-motion weighing systems for the pre-screening of road vehicles. A USNWG met in July 2011 to kick off this project. To receive a copy of the OIML documents or to obtain more information on this work, please contact Mr. Richard Harshman at (301) 975-8107 or richard.harshman@nist.gov.

The DR of OIML R 106, *Part 1 Automatic Rail Weighbridges*, was approved by a direct CIML online vote in April 2011. The 4 CD of R 106-2 was approved by a TC 9/SC 2 vote in April 2011, and has been submitted to the International Bureau of Legal Metrology (BIML) as a DR. The DR of R 106-2 was submitted to the CIML as a Preliminary Ballot with a deadline of May 22, 2012. 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.

The Secretariat is in the process of revising OIML R 50, *Continuous Totalizing Automatic Weighing Instruments (Belt Weighers)*. The United States returned comments on the 3 CD of this R in July 2010 and participated in a meeting on R 50 in Teddington, United Kingdom, in April 2011. In September 2011, a 4 CD was circulated to members of TC 9/SC 2 for review and comment. The United States believes that durability testing requirements agreed to in a formal vote by “P” members in April 2009, which were subsequently incorporated into the 3 CD, have been watered down in the 4 CD. Responses were due to be submitted to the Secretariat by March 30, 2012. For more information on this effort, please contact Mr. John Barton at (301) 975-4002 or john.barton@nist.gov.

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

The Co-Secretariats are working with a small IWG to revise OIML R 59, *Moisture Meters for Cereal Grains and Oilseeds*. All drafts have been distributed to the USNWG, which for the most part is a subset of the National Type Evaluation Technical Committee Grain Analyzer Sector. A preliminary 6 CD was developed based on international comments received on the 5 CD, and a meeting of TC 17/SC 1 was held in Orlando, Florida, to address those comments. Per discussions during that meeting, Germany submitted suggestions for additional software requirements that will be included in the 6 CD that is anticipated to be distributed in late 2012. 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)

This subcommittee was formed to study the issues and write a working draft document *Measuring Instruments for Protein Determination in Grains*. Australia is the Secretariat. At a TC 17/SC 8 meeting hosted by NIST, the subcommittee discussed comments concerning the maximum permissible errors and harmonization of the TC 17/SC 8 R for protein with the TC 17/SC 1 R for moisture. International comments on the 2 CD were received and compiled. These comments were discussed at a meeting of TC 17/SC 8 in Orlando, Florida. The Secretariat is developing the 3 CD based on discussion at the Orlando, Florida, meeting. The 3 CD is expected to be distributed in late 2012. 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 46TH CIML MEETING IN PRAGUE, CZECH REPUBLIC, IN OCTOBER 2011

Mr. Mason, CIML member from the United Kingdom, assumed his responsibilities as the newly-elected President of the CIML for a six-year term taking over for Mr. Johnston, CIML member from Canada.

Mr. Patoray, who has been serving as BIML Director since January 2011, provided several reports on financial and administrative matters at BIML, including improvements that have been implemented since his arrival at BIML.

Mr. Kool, BIML Assistant Director for the last five years, had his contract renewed for another five years.

It was agreed that the funds in the special account of the BIML Translation Center may be used, as necessary, for translation and interpretation activities that are not currently part of the normal operation of the Bureau, in particular:

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- the translation of documents (with particular priority to translating from English to French to reduce the backlog of Publications into French);
- interpretation on an experimental basis at Conferences and Committee Meetings;
- converting existing documents of interest to the work of the Organization (minutes and resolutions of past Conferences and Committee Meetings and other relevant documents) into a suitable electronic format.

Zimbabwe and Georgia were welcomed as new OIML Corresponding Members.

A new Memorandum of Understanding with IEC was approved, and the Bureau was instructed to draw up a joint work program with the IEC and report on the progress at the 47th CIML Meeting.

The prospective establishment of a liaison with the Consumer Policy Committee of ISO was discussed. The Bureau was instructed to identify possible liaison activities, to encourage such activities at the TC and SC level, and to report on the progress at the 47th CIML Meeting.

The ongoing collaboration at all levels between OIML and the International Bureau of Weights and Measures (BIPM) was discussed. CIML requested its President and the BIPM Director to intensify the cooperation with the BIPM in operational activities and to pursue further discussions and studies with BIPM concerning a possible collocation.

CIML approved the following Recommendation:

- OIML R 35-2, *Material Measures of Length for General Use - Part 2: Test methods*.

CIML instructed the BIPM to submit the following DR to direct CIML online approval after they have passed the appropriate subcommittee vote and then received sufficient support in the preliminary ballot:

- Draft Revision of OIML R 126, *Evidential Breath Analyzers*;
- Draft Revision of OIML R 137, (Parts 1 and 2) *Gas Meters*.

CIML reassigned the responsibility for the Secretariat of TC 8 *Measurement of Quantities of Fluids* to Japan.

CIML approved the following Draft BPs:

- Revision of *OIML B 3 OIML Basic Certificate System for OIML Type Evaluation of Measuring Instruments*;
- Revision of OIML B 10-1 and OIML B 10-2 (combined into a single document B 10) *Framework for a Mutual Acceptance Arrangement on OIML Type Evaluations*.

CIML, noting the report of TC 3/SC 5 on the issue of the acceptance of manufacturers' test results within a Declaration of Mutual Confidence (DoMC) under the MAA, and recalling its Resolution number 20 at the 43rd CIML Meeting, decided that Issuing Participants may request the registration of Manufacturers' Testing Laboratories (MTLs) under a DoMC provided that the conditions agreed by TC 3/SC 5 and laid down in a respective amendment to, or revision of, OIML B 10 are met, and that after this amendment to, or revision of, OIML B 10, MAA Type Evaluation Reports that contain test results from MTLs may be accepted by participants on a voluntary basis.

CIML approved as a new work item for OIML TC 3/SC 5:

- the amendment to, or the revision of, OIML B 10 *Framework for a MAA on OIML Type Evaluations* to include appropriate conditions for the registration of MTLs under a DoMC.

However, CIML also decided that the registration of MTLs under a DoMC remains excluded from the scope of the MAA, until this amendment to, or revision of, OIML B 10 is approved.

CIML, noting the written report of the seminar on Conformity to Type (CTT) held in Utrecht, the Netherlands, on June 20 – 30, 2011, and noting the oral report and presentation by the CIML Member for New Zealand, Mr. O’Brien, on the outcome of the follow-up CTT Seminar held in Prague, Czech Republic, on October 10, 2011, approved the establishment of a new subcommittee of TC 3, to be titled *Conformity to Type*, which shall undertake as a work item the development of a guidance document on the *Scope for Pre-market Surveillance Activities Focused on the Conformity Assessment of Measuring Instruments to Give Assurance that Manufactured (or Production) Instruments Meet Their Approved Type*. The responsibility for the Secretariat of the new subcommittee was assigned jointly to New Zealand and BIML.

The new subcommittee was invited to take into account:

- the information provided at the seminars held in June and October 2011; and
- the current programs in the United States and the European Union and any best practices identified elsewhere.

CIML approved, subject to re-titling the proposed “Working Groups” as “Project Groups” and other necessary editorial changes, the revision of:

- OIML B 6-1 *Directives for OIML Technical Work. Part 1: Structures and Procedures for the Development of OIML Publications*; and
- OIML B 6-2 *Directives for OIML Technical Work. Part 2: Guide to the Drafting and Presentation of OIML Publications*.

BIML was instructed to produce a guidance document for B 6-1 and B 6-2 no later than December 1, 2011, setting out the arrangements for implementation and to introduce the new arrangements from January 1, 2012, in an orderly way. An *ad-hoc* work group was established, chaired by the CIML Second Vice-President, to consider improvements to OIML B 6-1 and OIML B 6-2, suggested by CIML members in the light of the experience of operating the new procedures, and instructed the *ad-hoc* work group to present proposals for the amendment of OIML B 6-1 and OIML B 6-2 for consideration at its 47th Meeting.

CIML, noting the development of the 3rd edition of the *International Vocabulary of Metrology (VIM) - Basic and General Concepts and Associated Terms* by the Joint Committee for Guides in Metrology of which OIML is a Member Organization, noting the publication of the 3rd edition of the VIM as an OIML Vocabulary (OIML V 2-200:2010), recalling the requirements for the drafting and presentation of terms and definitions in OIML Recommendations and Documents as laid down in Annex B of OIML B 6-2:1993, and in particular paragraph B.1.2 *Avoidance of Duplications and Contradictions*, and considering the imminent completion of the revision of the International Vocabulary of Legal Metrology (VIML) by OIML TC 1, resolved:

- a) that new, and revisions of existing, OIML Recommendations and Documents should apply the terminology and definitions of the VIM and the VIML without amendment;
- b) that terms and definitions from international vocabularies from other fields (for instance statistics) may be adapted when the concept that they pertain to in legal metrology is different and that such conceptual differences should be explained in a note; and
- c) that when, in OIML Publications other than Recommendations and Documents, terms and definitions are used that differ from those in the VIM and the VIML, these differences should be indicated in notes, as appropriate.

BIML was further instructed to monitor the correct implementation of this resolution at all stages of the preparation of OIML publications.

CIML encouraged all its members and relevant TCs, in particular TC 2, TC 9, TC 9/SC 3 and TC 11, to actively participate in the discussion and provide comments to the *ad-hoc* OIML Work Group “New SI” before February 24, 2012, in particular on the impact that the proposed new SI unit redefinitions might have on legal metrology matters.

CIML, taking into consideration that:

- the net revenue from the paid subscriptions for the OIML Bulletin is relatively small;
- the OIML Bulletin is still an indispensable means of communication to the members and other interested parties; and
- the OIML Bulletin should be circulated to as wide an audience as possible,

concluded that:

- the OIML Bulletin should be rendered free of charge;
- electronic versions of all issues of the OIML Bulletin should be available for download on the OIML web site without restriction;
- printed copies of the OIML Bulletin should be provided only to OIML member states and corresponding members; and
- requested that the 14th Conference consider this opinion in the budget for the 2013 to 2016 budget period.

The committee decided to award Professor Dr. Lev Issaev, its former member for the Russian Federation, the title of Member of Honor in recognition of his work for OIML over a period of more than 30 years.

III. FUTURE OIML MEETINGS

The 14th OIML Conference and 47th CIML Meeting will be held in Bucharest, Romania, October 1 - 5, 2012.

IV. REGIONAL LEGAL METROLOGY ORGANIZATIONS

Meeting of the Inter-American Metrology System (SIM) General Assembly and the SIM Legal Metrology Work Group (LMWG)

The 2010 SIM General Assembly (GA) was held in Miami, Florida, on November 2. The GA was originally scheduled to be held in St. Lucia but needed to instead be held in Miami because of Hurricane Tomas. Mr. Dajes, INDECOPI Peru, was presented by the Organization of American States as the sole candidate for the SIM Presidency. Mr. Senna at mjsenna@inmetro.gov.br, of INMETRO in Brazil serves as the Chairman of the SIM LMWG. 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.

Asia-Pacific Legal Metrology Forum (APLMF)

The 18th Meeting of APLMF was held September 5 - 8, 2011, in Busan, South Korea. 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 most active is the work group on Training Coordination chaired by Australia.

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. There were no training courses given by APLMF in 2011. The APLMF Secretariat spent a considerable amount of time, with the assistance of the United States, developing a proposal to obtain support from the Asia-Pacific Economic Cooperation (APEC) - Trade and Investment Liberalization and Facilitation funding in order to support the delivery of the training which was agreed upon at the 17th APLMF meeting (see below). 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 Secretariat reported that APLMF has been successful in obtaining APEC funding to deliver two training programs in 2012. The first training activity, a three-day seminar entitled *Improving the Custody Transfer of Liquid*

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Fuel in the Asia-Pacific Region was held March 6 – 8, 2012, in Singapore. Mr. Ralph Richter of NIST served as the facilitator for this successful seminar. The second training activity, a *Train-the-Trainer* course on the verification of in-line (pipeline) turbine and positive displacement metering systems used for hydrocarbon products in the bulk fuel supply chain, will be held in the second half of 2012 in Thailand.

APLMF members also considered and approved an initiation of self-funded training activities. In 2012, there will be such training in rice moisture measurement given by Japan.

The United States was represented at the meeting in Busan by Dr. Charles Ehrlich, who serves as Chairman of the APLMF work group on Mutual Recognition Arrangements and by Mr. Ralph Richter. Dr. Ehrlich gave an extensive report and update on the OIML MAA. Mr. Richter prepared and presented the U.S. Country Report. The 2012 APLMF meeting is scheduled to be held in November 2012 in the Philippines.