

## Appendix A

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

Weights and Measures Division, NIST

#### INTRODUCTION

The Weights and Measures Division (WMD) of the National Institute of Standards and Technology (NIST) is responsible for coordinating U.S. participation in the International Organization of Legal Metrology (OIML) and other international legal metrology organizations. Learn more about OIML at the website [www.oiml.org](http://www.oiml.org) and about NIST Weights and Measures Division at the WMD website [www.nist.gov/owm](http://www.nist.gov/owm). Dr. Charles Ehrlich, Group Leader of the International Legal Metrology Group (ILMG), can be contacted at [charles.ehrlich@nist.gov](mailto:charles.ehrlich@nist.gov) or at (301) 975-4834 or by fax at (301) 975-8091.

*Please note: OIML publications are available without cost at <http://www.oiml.org>.*

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**Table B**  
**Glossary of Acronyms**

BIML	International Bureau of Legal Metrology	IR	International Recommendation
B	Basic Publication	IWG	International Work Group
CD	Committee Draft <sup>1</sup>	MAA	Mutual Acceptance Arrangement
CIML	International Committee of Legal Metrology	MC	Measurement Canada
CPR	Committee on Participation Review	OIML	International Organization of Legal Metrology
D	Document	R	Recommendation
DD	Draft Document <sup>2</sup>	SC	Technical Subcommittee
DR	Draft Recommendation <sup>2</sup>	TC	Technical Committee
DoMC	Declaration of Mutual Confidence	WD	Working Draft <sup>3</sup>
DV	Draft Vocabulary <sup>2</sup>	USNWG	U.S. National Work Group
ILMG	International Legal Metrology Group		

<sup>1</sup> 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.

<sup>2</sup> DD, DR, and DV: draft documents approved at the level of the technical committee or subcommittee concerned and sent to BIML for approval by CIML.

<sup>3</sup> WD: 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 Number)**

**I. Report on the Activities of the OIML Technical Committees**

This section reports on recent activities and the status of work in OIML technical committees (TCs) and technical subcommittees (SCs) of specific interest to members of the NCWM. Also included are schedules of future activities of the Secretariats, the U.S. National Work Groups (USNWGs), and the International Work Groups (IWGs) of the committees and subcommittees.

*TC 3/SC 1 “Pattern approval and evaluation” (United States)*

The Subcommittee approved the U.S. proposal for a combined revision of OIML D 19 “Pattern evaluation and pattern approval” and D 20 “Initial and subsequent verification of measuring instruments and processes” into a single document entitled “Principles of metrological control of measuring instruments: type approval and verification.” Key elements of OIML D 3 “Legal qualification of measuring instruments,” R 34 “Accuracy classes of measuring instruments,” and R 42 “Metal stamps for verification officers” will also be incorporated into the combined revision of OIML D 19 and D 20. The revised documents will incorporate recent developments such as the OIML certificate system, D 27 “Initial verification of measuring instruments utilizing the manufacturer’s quality management system,” and the “Framework for a mutual acceptance arrangement (MAA) on OIML type evaluations.” Consideration will be given to the appropriate conformity assessment options developed by the ISO Council Committee on Conformity Assessment (ISO CASCO), including quality systems, product certification, and accreditation. Consideration will also be given to information technology and statistical methods to increase or decrease verification intervals based upon proven instrument performance. For more information on this activity, contact Dr. Ambler Thompson at (301) 975-2333 or at ambler@nist.gov.

*TC 3/SC 5 “Conformity assessment” (United States and BIML)*

The Subcommittee held a meeting in May 2008 to discuss the revision of the documents B 3 (Certificate System) and B 10 (MAA). The meeting included discussion of a new document on the incorporation of measurement uncertainty into conformity assessment decisions in legal metrology; in January 2008, a revised WD was sent to the BIML and other technical advisors for review. For more information on this activity, contact Dr. Charles Ehrlich at (301) 975-4834 or at [charles.ehrlich@nist.gov](mailto:charles.ehrlich@nist.gov).

*TC 5/SC 2 “Software” (Germany and BIML)*

The new OIML Document D 31 “General requirements for software-controlled measuring instruments” was approved by the CIML in October 2008 and will serve as guidance for software requirements in International Recommendations by OIML technical committees. The United States participated in the technical work on this document and submitted votes and comments on several drafts of the document. The ILMG participated in NCWM Software Sector meetings in Lake Tahoe, California, and Little Rock, Arkansas, in October and May 2007. Please contact Dr. Ambler Thompson at (301) 975-2333 or at [ambler@nist.gov](mailto:ambler@nist.gov) if you would like to discuss OIML software efforts.

*TC 6 “Prepackaged products” (South Africa)*

In September 2007, NIST hosted the OIML TC 6 at NIST in Gaithersburg, Maryland. There was continued discussion on the issue of an OIML International Quantity Mark, referred to as an IQ Mark. The IQ Mark, designed to eliminate trade barriers, would be a program that would allow for an international system of acceptance of prepackaged goods. Receiving countries want imported packages to meet all requirements and packers in exporting countries want to ensure prepackages will not be rejected after arriving in the destination country. Such a program would also require that participants meet specific requirements in order to participate in a program for quantity control and marking of prepackaged goods.

The United States is participating in a work group that is developing guidelines on good manufacturing practices and additional documentation for selected criteria that would be used in the IQ Mark’s accreditation programs. It was agreed that all members of the TC 6 would send out a questionnaire to all current stakeholders, including industry, and federal and state agencies seeking input to specific questions. NIST WMD surveyed U.S. industry, including the largest manufacturers of packaged goods, in April 2008 and found no support for the IQ Mark effort. The United States believes the effort to manage and certify quality control systems will add costs to all participating suppliers. Even though there is significant opposition to the IQ Mark effort from several countries (including the United States), the technical committee continues to move forward with this project. A TC 6 meeting is scheduled for March 2009 in South Africa. Please contact Lisa Warfield at (301) 975-3308 or at [lisa.warfield@nist.gov](mailto:lisa.warfield@nist.gov) if you would like more information about the work of this subcommittee or to participate in any of these projects.

*TC 8/SC 1 “Static volume and mass measurement” (Austria and Germany)*

Two revised Recommendations, OIML R 71 “Fixed storage tanks” and R 85 “Automatic level gages for measuring the level of liquid in fixed storage tanks,” received final approval in October 2008. The United States, however, had serious opposition to the inclusion of specialized tanks (including pressurized tanks and non-vertical tanks) in the scope statements of both R 71 and R 85 because the requirements in the Recommendations did not fully reflect this inclusion. The United States has agreed to chair a work group that will draft the separate sections or separate appendices of R 71 and R 85 that will include the specific requirements for specialized tanks. OIML R 80 “Road and rail tankers” is currently being revised, and final approval is expected in 2009. Please contact Ralph Richter at (301) 975-3997 or at [ralph.richter@nist.gov](mailto: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)*

OIML R 117-1 “Dynamic measuring systems for liquids other than water, Part 1: Metrological and technical requirements” has undergone an extensive revision. The Recommendation obtained 100 % international “yes” votes and final CIML approval in October 2007 and was published in March 2008. The revision incorporates new instrument technologies and includes a merger with OIML Recommendations R 86 “Drum meters” and R 105 “Mass flowmeters.” The ILMG has worked closely with the USNWG, Germany, and the Netherlands on this effort. Meetings of the USNWG on flowmeters were held during the NCWM Annual Meeting in July 2007 in Utah and the NCWM Annual Meeting in July 2008 in Burlington, Vermont. Measurement Canada has also been a strong contributor to this effort. Subcommittee work on the development of R 117-2 “Test methods” and R 117-3 “Test

report format” has begun. If you have any questions or would like to participate in the next phases of this project, please contact Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov.

*TC 8/SC 6 “Measurement of cryogenic liquids” (United States)*

The Secretariat (United States) requested that Participating members and U.S. stakeholders decide if there was sufficient justification for opening a new project to revise R 81 “Dynamic measuring devices and systems for cryogenic liquids.” The response received by the Secretariat indicated that a revision of R 81 was justified 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, (3) Annex C to include current recommendations for density equations, and (4) existing sections into three distinct parts similar in format to recently-developed OIML Recommendations. The Secretariat will ask members of TC 8/SC 6 to review and formally comment on R 81. The Secretariat is also forming a national work group to establish a U.S. position on the appropriate updates to the document. To obtain more information or to participate in this project, please contact Juana Williams at (301) 975-3989 or juana.williams@nist.gov.

*TC 8/SC 7 “Gas metering” (Netherlands)*

In October 2007, the CIML approved the merger of TC 8/SC 7 (with France and Belgium as Co-secretariats) and TC 8/SC 8 “Gas meters” (with Netherlands as Secretariat). Netherlands has assumed responsibility of this newly merged technical subcommittee. In October 2007, the CIML approved a new Recommendation R 139 “Compressed gaseous fuel measuring systems for vehicles.” The United States voted “no” on this document at the CIML meeting because some of the systems testing requirements were considered to be excessive and very expensive, and there are presently no testing facilities anywhere in the world that can fully perform all of the tests. The Recommendation is scheduled for a revision in the near future that should address these excessive testing requirements.

Another new Recommendation R 140, “Measuring systems for gaseous fuel” also received CIML approval in October 2007. This Recommendation is intended for large pipelines with large flow rates and high operating pressures.

OIML R 137-1 “Gas meters” was published in 2007. It combines and replaces three old Recommendations that will soon be withdrawn: R 6 “General provisions for gas volume meters,” R 31 “Diaphragm gas meters,” and R 32 “Rotary piston gas meters and turbine gas meters.” Development of R 137-2 “Test methods” is now underway. Please contact Ralph Richter at (301) 975-3997 or ralph.richter@nist.gov if you would like to obtain a copy of any of these gas measurement documents or if you would like to participate in future work of this subcommittee.

*TC 9 “Instruments for measuring mass” (United States)*

At the 43<sup>rd</sup> CIML meeting in October 2008, the CIML approved a new work item to begin revision of OIML R 60:2000 “Metrological regulation for load cells.” It is anticipated that this revision will cover everything from the basic principles of R 60 (e.g., tolerances and accuracy classes) to exploring the addition of new requirements. For more information on these efforts, please contact Steve Cook at (301) 975-4003 or steven.cook@nist.gov.

*TC 9/SC 1 “Nonautomatic weighing instruments” (Germany and France)*

The revision of R 76 “Non-automatic weighing instruments” is of major importance to U.S. interests because the Recommendation serves as the foundation for a majority of the laws and regulations that govern weighing instruments around the world. The revision includes new language addressing metrological controls for type evaluations, conformity, initial and subsequent inspections, suitability of separable components and requirements for metrological software. The USNWG was consulted concerning proposals to harmonize NIST Handbook 44 and R 76. Most recently, the United States voted “yes” on R 76-2 “Test report format,” and it was published in December 2007. For more information on these efforts, please contact Steve Cook at (301) 975-4003 or steven.cook@nist.gov.

*TC 9/SC 2 “Automatic weighing instruments” (United Kingdom)*

The Recommendation R 134-1 “Automatic instruments for weighing road vehicles in motion – total load and axle weighing” has been approved by CIML and published. U.S. comments concerning terminology and document scope were incorporated in the document. The test report format of this document, R 134-2, has been approved by the Subcommittee and is going through a final editorial process at the BIML.

The 3 CD of R 106 Parts 1 and 2, “Automatic rail-weighbridges” were distributed by the Secretariat to members of TC 9/SC 2 in September 2007. In distributing the 3 CD, the Secretariat commented that although the 2 CD achieved majority approval, there were substantial comments and some amendments to the technical requirements of the 2 CD. Comments and a U.S. “yes” vote on the 4 CD of R 106 Parts 1 and 2 were sent in July 2008.

The Subcommittee approved a revision of R 107 “Discontinuous totalizing automatic-weighing instruments (totalizing hopper weighers),” and final approval was granted in October 2007 by the CIML. However, the Secretariat first accommodated U.S. concerns by inserting into the document that national legislation will dictate whether the automatic zero-tracking feature is allowed in a country. If you would like to receive copies of these documents or work on these projects, please contact Richard Harshman at (301) 975-8107 or at harshman@nist.gov and John Barton at (301) 975-4002 or john.barton@nist.gov.

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

The Co-secretariats (China and the United States) 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 NTEP Grain Sector. A TC 17/SC 1 meeting was hosted by NIST in September 2007 to discuss the comments to the 4 CD. At the TC 17/SC 1 September 2007 meeting, the Subcommittee also discussed harmonization of the Recommendation for moisture with the TC 17/SC 8’s Recommendation for protein. In October 2008, the Secretariat of TC 17/SC 1 was jointly allocated to China and the United States. Please contact Diane Lee at (301) 975-4405 or at diane.lee@nist.gov if you would like to participate in this work group.

*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. A work group meeting was held in September 2006 in Ottawa, Canada, to discuss comments on the 1 CD. A TC 17/SC 8 meeting was hosted by NIST in September 2007 to discuss the 2 CD. At the September 2007 meeting, the TC 17/SC 8 also discussed comments concerning the maximum permissible errors (MPEs) and harmonization of the TC 17/SC 8 Recommendation for protein with the TC 17/SC 1 Recommendation for moisture. Please contact Diane Lee at (301) 975-4405 or at diane.lee@nist.gov if you would like to participate in this work group.

**OIML Mutual Acceptance Arrangement (MAA)**

Note: The report on the OIML Mutual Acceptance Arrangement (MAA) has moved. It can now be found in the NTEP section of the Publication 15. For further information on the MAA and its implementation, please contact Dr. Charles Ehrlich at charles.ehrlich@nist.gov or at (301) 975-4834 or by fax at (301) 975-8091.

**II. Report on the 43<sup>rd</sup> CIML Meeting in Sydney, Australia, October 2008**

The International Committee of Legal Metrology (CIML) opened with addresses given by Mr. Alan E. Johnston, CIML President.

The Committee welcomed Montenegro as a new Corresponding Member and expressed its appreciation for the growing interest shown by many countries in joining the OIML. The Committee instructed its President and the Bureau to continue to raise the level of awareness of the advantages of OIML membership in order to encourage the widest possible participation in the International Legal Metrology System.

The Committee took note of the ongoing work on the revision of the MoUs with ISO and the IEC and instructed the Bureau to pursue this revision taking into consideration the specific aspects of importance to legal metrology and to the OIML.

The Committee noted the importance given to OIML publications and conformity assessment and certification systems in the implementation of the World Trade Organization/Technical Barriers to Trade (WTO/TBT) Agreement. It instructed the CIML President and the BIML Director to continue to cooperate with the WTO and to promote the OIML as an organization facilitating compliance with the WTO/TBT Agreement.

The Committee emphasized the importance of maintaining close relations with organizations representing legal metrology stakeholders and encouraged them to participate in OIML work. It instructed the CIML President and the BIML Director to continue to identify such stakeholder organizations and to raise their awareness of OIML work.

The CIML decided that a new or revised draft OIML document or recommendation that has received CIML approval shall be available on the OIML website immediately after approval. This will allow manufacturers and OIML issuing authorities to begin preparing to issue Certificates before the document completes the final editing process and is actually published. However, OIML Basic Certificates will not be allowed until the date of final publication. The date from which an OIML MAA Certificate can be issued is specified in the corresponding DoMC.

As soon as an OIML Recommendation including the Test Report Format is published, the relevant OIML Recommendation is automatically included in the OIML Basic Certificate System. The Bureau will publish the appropriate information on the website. If a new version of an OIML Recommendation is published, the earlier version is maintained in the OIML Basic Certificate System or in the relevant OIML DoMC together with the new version.

The CIML discussed several issues concerning the OIML Mutual Acceptance Arrangement (MAA); information concerning these discussions and the committee's resolutions can be found in the NTEP section of the Publication 15.

The Committee expressed its appreciation to the BIML staff for providing the first training session to TC/SC Secretariats in April 2008 and instructed the BIML to extend and update this training to those Secretariats that did not participate in the first session.

The CIML approved the following publications in Australia:

- R 85-3:2008 “Automatic level gauges for measuring the level of liquid in stationary storage tanks, Part 3: Report format for type evaluation”
- R 99-3:2008 “Instruments for measuring vehicle exhaust emissions, Part 3: Report Format”
- D 29:2008 “Guide for the application of ISO/IEC Guide 65 to assessment of measuring instrument certification bodies in legal metrology”
- D 30:2008 “Guide for the application of ISO/IEC 17025 to the assessment of testing laboratories involved in legal metrology testing”
- D 31:2008 “General requirements for software controlled measuring instruments”

The CIML decided to disband OIML TC 10/SC 5 “Hardness standardized blocks and hardness testing machines” (in favor of using ISO hardness standards) and approved the withdrawal of the following OIML hardness publications:

- V 3 “Hardness testing dictionary (quadrilingual)”
- R 9 “Verification and calibration of Brinell hardness standardized blocks”
- R 10 “Verification and calibration of Vickers hardness standardized blocks”
- R 11 “Verification and calibration of Rockwell B hardness standardized blocks”
- R 12 “Verification and calibration of Rockwell C hardness standardized blocks”
- R 36 “Verification of indenters for hardness testing machines”
- R 37 “Verification of hardness testing machines (Brinell system)”

- R 38 “Verification of hardness testing machines (Vickers system)”
- R 39 “Rockwell hardness machines”

The CIML also approved the withdrawal of the following publications:

- R 121 “The scale of relative humidity of air certified against saturated salt solutions”
- D 15 “Principles of selection of characteristics for the examination of measuring instruments”

The CIML approved the following new work items:

- Revision of V 1:2000 “International Vocabulary of Legal Metrology”
- Revision of R 16:2002 “Mechanical non-invasive sphygmomanometers”
- Revision of R 18:1989 “Visual disappearing filament pyrometers”
- Revision of R 49:2006 “Water meters intended for the metering of cold potable water and hot water”
- Revision of R 60:2000 “Metrological regulation for load cells”
- Revision of R 91:1990 “Radar equipment for the measurement of the speed of vehicles”
- Revision of the requirements in R 138 on measuring container bottles by TC 6
- Revision of D 1:2004 “Elements for a Law on Metrology”
- Revision of D 11:2004 “General requirements for electronic measuring instruments”
- New project: Document “Software – Methods and means of verification”

The Committee allocated the Secretariats of the following Technical Committee and Subcommittees:

- TC 7/SC 4 “Measuring instruments for road traffic” allocated to the United States;
- TC 12 “Instruments for measuring electrical quantities” allocated to Australia;
- TC 17/SC 1 “Humidity” allocated jointly to China and the United States.

The Committee voted to renew the contract of Mr. Ian Dunmill, Assistant Director of the Bureau.

### **III. Report on the 13<sup>th</sup> International Conference on Legal Metrology in Sydney, Australia, October 2008**

The Conference made the recommendation that CIML members make their regulatory requirements available to the public on the Internet and that they update their Member State data on the OIML website with links to these national websites.

The Conference made the recommendation that CIML members complete the inquiry on the implementation of OIML Recommendations as accurately as possible and as soon as possible and further made the recommendation that Member States update it each time a new or revised national regulation is adopted.

The Conference made the recommendation to CIML members to keep their other governmental agencies informed of OIML work and invite them to contribute to this work.

In order to better assist developing countries, the Conference considered it important that OIML D 1 “Elements for a law on metrology” be revised to take account of the latest developments in world trade, such as conformity assessment, certification, and globalization. The Conference instructed the CIML to start a revision of OIML D 1.

The Conference sanctioned the following publications previously approved by the Committee and made the recommendation that Member States use them as the basis for their national regulations as far as possible:

- R 21:2007 “Taximeters”
- R 35-1:2007 “Material measures of length for general use, Part 1: Metrological and technical requirements”
- R 49-1:2006 “Water meters intended for the metering of cold potable water and hot water, Part 1: Metrological and technical requirements”
- R 49-2:2006 “Water meters intended for the metering of cold potable water and hot water, Part 2: Test methods”
- R 51-1:2006 “Automatic catchweighing instruments, Part 1: Metrological and technical requirements, Tests”
- R 65:2006 “Force measuring system of uniaxial material testing machines”
- R 76-1:2006 “Non-automatic weighing instruments, Part 1: Metrological and technical requirements, Tests”
- R 82:2006 “Gas chromatographic systems for measuring the pollution from pesticides and other toxic substances”
- R 83:2006 “Gas chromatograph/mass spectrometer systems for the analysis of organic pollutants in water”
- R 107-1:2007 “Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers), Part 1: Metrological and technical requirements – Tests”
- R 116:2006 “Inductively coupled plasma atomic emission spectrometers for the measurement of metal pollutants in water”
- R 117-1:2007 “Dynamic measuring systems for liquids other than water”
- R 134-1:2006 “Automatic instruments for weighing road vehicles in motion and axle-load measuring, Part 1: Metrological and technical requirements – Tests”
- R 137-1:2006 “Gas Meters, Part 1: Requirements”
- R 138:2007 “Vessels for commercial transactions”
- R 139:2007 “Compressed gaseous fuel measuring systems for vehicles”
- R 140:2007 “Measuring systems for gaseous fuel”

The Conference directly sanctioned the following publications (without prior CIML approval) and made the recommendation that Member States use them as the basis for their national regulations as far as possible:

- R 56:2008 “Standard solutions reproducing the electrolytic conductivity”
- R 71:2008 “Fixed storage tanks, General requirements”
- R 85:2008 “Automatic level gauges for measuring the level of liquid in stationary storage tanks”
- R 99-1:2008 “Instruments for measuring vehicle exhaust emissions, Part 1: Metrological and technical requirements”
- R 99-2:2008 “Instruments for measuring vehicle exhaust emissions, Part 2: Metrological controls and performance tests”
- R 141:2008 “Procedure for calibration and verification of the main characteristics of thermographic instruments”
- R 142:2008 “Automated refractometers: Methods and means of verification”

The Conference took note of the comments made by some Member States regarding the necessity of revising the following publications as soon as possible:

- R 71:2008 “Fixed storage tanks, General requirements”
- R 85:2008 “Automatic level gauges for measuring the level of liquid in stationary storage tanks”
- R 139:2007 “Compressed gaseous fuel measuring systems for vehicles”

The Conference sanctioned the withdrawal of the OIML hardness publications listed in the CIML section of this report and also the following publications:

- R 74 “Electronic weighing instruments”
- R 121 “The scale of relative humidity of air certified against saturated salt solutions”

The Conference encouraged Member States to actively participate in the development and revision of OIML mutual acceptance and recognition systems. Member States were encouraged to participate in these systems, to actively promote them to all concerned parties, and to help make them acceptable in their countries.

The Conference approved the latest draft of the OIML Strategic Plan and instructed the CIML to implement it and to report on the progress in its implementation at the 14<sup>th</sup> Conference.

#### **IV. Future OIML Meetings**

The 44<sup>th</sup> CIML meeting will be held in Kenya in October 2009. The Committee thanked the United States for inviting the CIML to hold its 45<sup>th</sup> meeting in the United States in 2010 and accepted this invitation.

#### **V. Regional Legal Metrology Organizations**

##### Meeting of the SIM General Assembly and SIM Legal Metrology Work Group (LMWG)

The SIM General Assembly was held in San Pedro, Honduras during the first week of October 2008. Dr. Humberto S. Brandi, Director of Scientific and Industrial Metrology (SIM) at INMETRO Brazil, is the SIM President (elected last year). Marcos Senna (senna@inmetro.rs.gov.br), also of INMETRO in Brazil serves as the new Chairman of the SIM Legal Metrology Work Group (LMWG). A meeting of the SIM LMWG was held in

March 2008. Topics that were discussed at the meeting included composition of the SIM Legal Metrology Work Group, SIM Legal Metrology directory, survey on training needs and their implementation, events organization costs (translation, mikes, data-show, etc.), events calendar (dates, venue, organization committee, instructors, etc.), budget for 2008 - 2009, and correspondence/communications in LMWG. Please contact Dr. Ambler Thompson at (301) 975-2333 or at [ambler@nist.gov](mailto:ambler@nist.gov) for more information.

Asia-Pacific Legal Metrology Forum (APLMF) Meeting

The 15<sup>th</sup> APLMF meeting was held October 22 - 24, 2008, in the Hunter Valley, Australia (two hours north of Sydney). The Peoples Republic of China holds the Presidency and Secretariat of the APLMF. The United States was represented by Dr. Charles Ehrlich, who serves as Chairman of the APLMF Work Group on Mutual Recognition Arrangements. APLMF activities are facilitated through its seven work groups. The most active is the work group on Training Coordination, chaired by Australia. There were three training courses and a workshop given by APLMF this year. The training courses were offered primarily to assist the developing countries in APLMF, covering requirements in the following OIML Recommendations: automated sphygmomanometers (blood pressure instruments), water meters, and a train-the-trainer course on scales. The workshop was on Metrology in Food Safety, Agricultural Products, and Product Safety. Future priorities for APLMF training courses were identified as OIML R 117 (flowmeters for liquids other than water, for which the United States is now Co-secretariat), OIML R 46 (Electricity Meters), and Traffic Safety OIML R 126 (Breathalyzers) and R 91 (Radar Devices). The next meeting of the APLMF will be in Thailand (date and venue are yet to be decided).