

Report of the Board of Directors

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Reference
Key Number

100 INTRODUCTION

The Board held its quarterly Board of Directors (BOD) meeting on Saturday, July 11, 2009, and continued that meeting during work sessions throughout the remainder of the Annual Meeting. The Board of Directors and the NTEP Committee invited members to dialogue with the BOD on the following issues: Improving Standards Development, Mutual Acceptance Arrangements, Increasing Efficiency and Effectiveness, and participation internationally, i.e., OIML, CFTM, APLMF, and USNWG.

Table A identifies the agenda items in the Report by reference key number, item title, and page number. An item marked with an “**I**” after the reference key number is an informational item. An item marked with a “**V**” after the reference key number is a voting item. Table B lists the appendices to the report, and Table C shows the results of voting items.

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Reference Key Number	House of State Representatives		House of Delegates		Results
	Yeas	Nays	Yeas	Nays	
Adopt the Report (voice)					Adopted

Details of all Items
(In order by Reference Key Number)

1. I NCWM Automatic Temperature Compensation (ATC) Steering Committee

The ATC Steering Committee was formed in 2007 to assist NCWM in forming a consensus on issues before the Specifications and Tolerances Committee and the Laws and Regulations Committee. The Board receives quarterly activity reports from the Chair of the ATC Steering Committee. In addition, they review future Steering Committee activities and related NCWM work on this issue.

To date, the Steering Committee has forwarded numerous recommendations to the standing committees to assist them in the development of their respective agenda items. Following the 2008 Annual Meeting, the Steering Committee was asked to provide responses to comments and questions that were received by the Specifications and Tolerances Committee during its open hearings. The responses were provided to the Specifications and Tolerances Committee for consideration at the January 2009 NCWM Interim Meeting.

The Board of Directors will reassess the future of the ATC Steering Committee at the fall 2009 board meeting based on the outcome of temperature compensation issues in July 2009.

2. W Marketplace Surveys Update

This item was withdrawn.

At the 2009 Interim Meeting, the Board of Directors had selected a subject for a new marketplace survey. During the planning stages, it was determined that the survey would no longer take place.

This item is withdrawn until such time as the Board of Directors determines a survey will be done and a subject for the survey has been determined.

Any surveys conducted by NCWM will be in accordance with the survey protocol adopted by NCWM in 1999.

3. I Membership and Meeting Attendance

The Board continues to assess avenues for improving membership and participation at Interim and Annual Meetings. Membership and attendance are driven to some degree by the items on the agendas and by the economy. It is important that NCWM be active in notifying potential stakeholders of agenda items that may be of interest and warrant their attention. This effort will have an impact on both membership and attendance.

The following is a comparison of NCWM membership levels for the past 6 years.

NCWM Membership Report						
	June 2009	June 2008	June 2007	June 2006	June 2005	June 2004
Associate	822	848	863	837	828	837
Foreign Assc	53	56	53	61	41	42
Federal Gov't	10	9	9	13	12	18
NIST	14	15	14	12	9	18
State Gov't	696	831	825	847	828	890
Local Gov't	558	554	565	492	490	527
Int'l Gov't	24	22	31	23	31	21
Retired	196	232	221	215	225	225
Total	2373	2567	2581	2465	2483	2516

4. I NCWM Newsletter and Website

The Board is continuing to look for ways to monitor and improve the content of the newsletter and website. The first issue of the newsletter for 2009 was published in February rather than January. This allowed timelier reporting from the Board and Standing Committee Chairs on progress made on various agenda items during the January Interim Meeting. Members are encouraged to bring ideas and articles forward for inclusion in newsletters. Of particular interest are articles that would strike a chord with field inspectors and service industry.

Lindsay Hier, Project Coordinator for NCWM, is our webmaster. She has the expertise to make some improvements and enhancements to the website, some of which have already taken place. Approved meeting minutes from the Board of Directors quarterly meetings have been added to the "Members Only" portion of our website. This will allow membership insight into the work of the Board and its decision making. Soon, NCWM will be including the NCWM Policy Manual on its website.

Comments and suggestions for improvements to our newsletters and website should be directed to NCWM Headquarters at (402) 434-4880 or via e-mail at info@ncwm.net.

5. W Members-Only Access to NTEP Database

This item was withdrawn.

The Board is considering ways to add value to the NCWM membership. One proposal under consideration was to limit access to the searchable NTEP database to members only. Non-members would still be able to download PDF listings of certificate holders, certificate numbers, and models covered, but they would not be able to enter the searchable Certificates of Conformance database to view the certificates.

During the 2009 Interim Meeting, several concerns were brought to the Board. Manufacturers currently have the ability to direct customers to the NCWM website to view certificates. If the general public no longer has access, manufacturers may choose to post searchable NTEP databases on their own websites. The effect would be less exposure for NCWM as fewer people visit our website. Another concern was for companies who employ large numbers of service agents or inspectors. The cost of providing that many memberships can be prohibitive, but those individuals need access to the certificates. One suggestion is to create corporate or organizational memberships, but the Board will be cautious of any policy that could actually reduce membership.

The item was withdrawn from consideration following open hearings of the 2009 Annual Meeting in response to continued concerns consistent with those the Board received at the Interim Meeting.

6. I Meetings Update

Interim Meetings

January 24 - 27, 2010	Hilton Nashville Downtown, Nashville, Tennessee
January 23 - 26, 2011	The Fairmont Dallas, Dallas, Texas
January 2012	To be determined

Annual Meetings

July 12 - 16, 2009	Marriott Plaza Hotel, San Antonio, Texas
July 11 - 15, 2010	Crowne Plaza St. Paul Hotel, St. Paul, Minnesota
July 10 - 14, 2011	Holiday Inn Downtown at the Park, Missoula, Montana
July 2012	To be held in the Northeastern Region

After receiving recommendations from the Western Region for a location to conduct the 2011 Annual Meeting, the Board of Directors has selected the Holiday Inn Downtown in Missoula, Montana. The hotel is adjacent to the Clark Fork River and within easy walking distance to the downtown district, where one can enjoy food and entertainment that caters to tourists, the college crowd, and locals.

The 2012 Annual Meeting will be in the Northeast Region. The Board of Directors asks that members of NEWMA submit proposals to the Board of Directors for consideration. It is not necessary for members to enter into negotiation with hotels. Members may obtain site selection criteria from Don Onwiler, Executive Director, at (402) 434-4880 or e-mail to don.onwiler@ncwm.net.

NCWM is currently researching locations for the 2012 Interim Meeting.

7. I Participation in International Standard Setting

Chuck Ehrlich and other NIST Weights and Measures Division (WMD) staff briefed the NCWM Board and NCWM members on key activities of OIML and regional legal metrology organizations during our open hearings (see Appendix A).

Of particular interest is the CIML Meeting to be held at the Doubletree Hotel in Orlando, Florida, September 20 - 24, 2010. Those interested in attending should contact Charles Ehrlich, NIST at (301) 975-4834 or Lisa Warfield, NIST at (301) 975-3308 for more information. Interested vendors should contact Bob Murnane, Seraphin Test Measure at (609) 267-0922.

8. I Efficiency and Effectiveness

The Board is examining cost efficiency measures to control meeting and administrative costs. We welcome member feedback on this topic and any ideas to increase the effectiveness of the Conference.

Website

Regional Website Hosting: Two regional association websites are hosted through the NCWM website. In the past, regional associations have paid NCWM for updates to these websites on an hourly rate. This has caused the regional associations to economize by requesting updates to information posted on their sites only once or twice per year. The Board of Directors has considered a new plan for hosting that would require a reasonable flat rate annual fee to NCWM for hosting and updating regional websites. The purpose would be to keep the service affordable for the regions and promote keeping the information on the regional sites up to date.

At the May 2009 Board Meeting, the Board adopted the following policy for hosting regional websites:

1. NCWM will invoice the Treasurers of participating regional associations annually during the month of January in the amount of \$200.00 for hosting and maintenance of regional association websites.

2. Hosting fees will pertain to any routine website maintenance and updates that are performed in-house.
3. A bid will be provided to the regional association for any requested services that would involve fees outside the scope of normal maintenance. Additional costs for these services will be assessed to the regional association.
4. NCWM will contact the regional representative for each participating regional association on a quarterly basis requesting any updates to their respective web pages.

2009 Interim Meeting: The SWMA and the CWMA have expressed interest in the new flat-rate annual fee approach. The Board further developed a proposed policy for this approach. It is important to include a system of periodic reminders to regional associations. The Board is reviewing fees assessed to the SWMA and CWMA over the past couple of years. This information, in combination with input from the regions, will be used to establish an annual fee.

Proposal: Implement a policy for the NCWM hosting of regional websites to include the following elements:

1. NCWM will invoice the Treasurers of participating regional associations annually on January 1 in the amount of \$XXX for hosting and maintaining regional association websites.
2. Hosting fees will pertain to any website maintenance and updates that are performed in-house by NCWM staff.
3. Additional costs for services from NCWM's web host will be assessed to the regional association.
4. NCWM will contact the Chair for each participating regional association on a quarterly basis requesting any updates to their respective web pages.

Staffing

NCWM Staff: The recent transition in NCWM management has provided an opportunity for significant cost savings to NCWM. However, this transition must not sacrifice service to the NCWM stakeholders or our mission. It is the hope of the Board of Directors that, in fact, the cost savings will enable NCWM to enhance its level of service and effectiveness.

Meetings: The Board is implementing a plan whereby members may volunteer for meeting staffing. This will reduce meeting staffing costs and possibly provide local officials, who may not otherwise be able to attend, the opportunity to participate. Staffing needs will be assessed on an ongoing basis to ensure successful events for our members.

2009 Interim Meeting: All four members of NCWM staff attended the 2009 Interim Meeting. Vicky Dempsey, Montgomery County, Ohio, provided volunteer assistance for a portion of the week. NCWM staff also attended the 2009 Annual Meeting in San Antonio, Texas. An invitation was extended to the Texas Department of Agriculture to provide one or two volunteers that week. The level of attendance by NCWM staff for future meetings will be determined by the Board based on cost and necessity.

Specifications and Tolerances Committee: The Board is exploring the possibility of splitting the Specifications and Tolerances Committee into two separate standing committees – one for measuring instruments and one for weighing instruments. Historically, the agenda of the S&T Committee has been very demanding. By dividing the committee into more specialized scopes, it would:

- Effectively reduce the number of agenda items for a standing committee,
- Allow the committees to give more attention to the items that are on their respective agendas,
- Provide specialized expertise to each standing committee, and
- Expedite the standards development process.

The Board envisions that General Code items and codes that do not fall clearly into “weighing” or “measuring” would be addressed by some form of joint committee.

Travel

Travel Policy: The NCWM Travel Policy applies to any person traveling at NCWM expense. The policy will be amended to clarify that meals occurring before departure on the first day of travel and after return on the last day of travel do not qualify for reimbursement.

2009 Interim Meeting: The Board reviewed the NCWM Travel Policy and made the following amendments to take affect at the conclusion of that meeting.

Approved Travel Policy Changes:

- Maintain \$45 per day for meals and clarify that this includes tips,
- Reimburse breakfast if departing before 6 a.m. and lunch if departing before 11 a.m.,
- Reimburse lunch if returning after 2 p.m. and dinner if returning after 7 p.m.
- Reference “current” federal per diem for mileage and provide the website for accessing the rate, and
- Note on the expense form that there are no reimbursements for additional tips or phone calls.

9. W Bylaws Amendment: Article IX, Section 4 – *Ad Hoc* Committees, Subcommittees, Task Forces, and Study Groups

This item was withdrawn following the 2009 Interim Meeting.

Proposal: Amend Article IX, Section 4 as follows:

Ad hoc committees, subcommittees, task forces, and study groups are appointed by the Corporation Chairman from the active, advisory, ~~or~~ associate membership, or NCWM staff in any combination, as the need arises or the Corporation requests. All committees are subject to an annual review by the Board.

Discussion: The Board recognizes that full-time staff dedicated to NCWM could provide beneficial support and participation in the activities of special work groups. Currently, the bylaws may not provide the flexibility for use of NCWM staff in this manner.

2009 Interim Meeting: Comments from the open hearings did not support this item. Members deemed it unnecessary, stating that the current bylaws do not prohibit the Chairman from appointing NCWM staff to *ad hoc* committees, subcommittees, task forces, and study groups. The Board discussed potential future conflicts with current bylaws beyond the possibility of using NCWM staff. For example, there might be an opportunity to utilize the expertise of a person who is not a member of NCWM. An example might be legal support from our law firm.

The Board withdrew the proposal recognizing that there is a lot of talent in our membership, and we can draw on that.

10. I Strategic Planning

Now that the management transition to NCWM employees is complete, the Board of Directors is reassessing its short-term and long-term goals. The Board has developed a new strategic plan that will be updated and revised on a continual basis as goals are met, changed, or added. The purpose of the Strategic Plan is to ensure the organization is moving forward and in the right direction. Members may view the new and exciting Strategic Plan on the website at www.ncwm.net/members/.

Background

The Board dedicated the first day of its quarterly meeting to strategic planning, resulting in a new plan in the draft and development stage. The plan consisted of six primary goals with numerous strategies for achieving them. The work to further develop and refine the plan was continued at the May and July 2009 Board meetings. In July, the Board combined two of the goals, reducing the total to the five goals shown below.

1. Enhance the National Conference on Weights and Measures as a national and international resource for measurement standards development.
2. Promote uniform training for individuals involved in weights and measures.
3. Continue to improve the National Type Evaluation Program (NTEP).
4. Expand the role of the National Conference on Weights on Measures as a resource for state and local weights and measures programs.
5. Ensure financial stability of the NCWM.

The Board is continuing to refine the strategies and measurements for meeting these goals. One of the strategies for the second goal is the implementation of a National Certification Program for weights and measures officials. This strategy has been placed as a top priority. The Board is working closely with the Professional Development Committee (PDC) to achieve implementation in the very near future. More details are available in the PDC report.

Another strategy of high priority is to maintain viable support for NTEP laboratories under the third goal. The Board will be monitoring the number of full-time employees associated with the authorized laboratories and will continue to track evaluation time and backlog statistics to ensure that NTEP evaluations can be completed in a timely manner.

11. I Financial Report

The NCWM operates on a fiscal year of October 1 through September 30. Last year, NCWM underwent a management transition from contracting professional association management services to opening its own office with fulltime employees. This transition was complete as of October 1, 2008. The cost of the management transition as of September 30, 2008, was approximately \$155,000. This cost included obtaining office space, furniture, computers and other equipment, office supplies, salaries, etc. Anticipating cost savings going into the new fiscal year, the budget for October 1, 2008, through September 30, 2009, projects net revenue of approximately \$102,000. This budget included funding for five staff positions but only four have been necessary. Based on this, it is quite possible that NCWM can recover the total cost of transition in its first year under the new management structure. This ongoing cost savings should provide exciting opportunities for enhancing service and effectiveness in the near future.

The following is the balance statement as of June 30, 2009.

ASSETS	June 30, 2009
Current Assets	\$
Checking/Savings	
Associate Member Fund	4,478.14
Certificates of Deposit	619,115.50
Checking	37,513.43
Savings	169,903.70
Total Checking/Savings	<u>831,010.77</u>
Accounts Receivable	-500.00
Other Current Assets	<u>66,741.11</u>
TOTAL ASSETS	<u>897,251.88</u>
LIABILITIES & EQUITY	
Liabilities	
Other Current Liabilities	<u>5,466.64</u>
Total Liabilities	5,466.64
Equity	
Unrestricted Net Assets	-19,348.05
Opening Balance Equity	-92,738.10
Retained Earnings	688,607.06
Net Income	315,264.33
Total Equity	<u>891,785.24</u>
TOTAL LIABILITIES & EQUITY	\$ <u>897,251.88</u>

Jack Kane, Montana, NCWM Chairman
 Randy Jennings, Tennessee, Chairman-Elect
 Judy Cardin, Wisconsin, NTEP Chairman
 Will Wotthlie, Maryland, Treasurer
 Charles Carroll, Massachusetts, Northeastern Regional Representative
 Steven Malone, Nebraska, Central Regional Representative
 Stephen Benjamin, North Carolina, Southern Regional Representative
 Kirk Robinson, Washington, Western Regional Representative
 Stephen Langford, Cardinal Scale, At-Large
 Tim Tyson, Kansas, At-Large
 Robert Murnane, Seraphine Test Measure, Associate Membership
 Don Onwiler, NCWM, Executive Director
 Jim Truex, NTEP, Administrator
 Carol Hockert, Chief, NIST, Weights and Measures Division, Executive Secretary

Board of Directors

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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 and about NIST Weights and Measures Division at the WMD website www.nist.gov/owm. Dr. Charles Ehrlich, Group Leader of the International Legal Metrology Group (ILMG), can be contacted at 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>.*
- *The United States will host the annual meeting of the International Committee of Legal Metrology (CIML) in Orlando, Florida, September 20 - 24, 2010.*

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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 ¹	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 ²	SC	Technical Subcommittee
DR	Draft Recommendation ²	TC	Technical Committee
DoMC	Declaration of Mutual Confidence	WD	Working Draft ³
DV	Draft Vocabulary ²	USNWG	U.S. National Work Group
ILMG	International Legal Metrology Group		

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: draft documents approved at the level of the technical committee or subcommittee concerned and sent to BIML for approval by CIML.

³ 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 WD of a new document on the incorporation of measurement uncertainty into conformity assessment decisions in legal metrology. In April 2009, the Secretariat distributed the 1CD of a new document entitled “The role of measurement uncertainty in conformity assessment decisions in legal metrology.” International comments on this document are requested by September 2009. For more information on the activities of this subcommittee, please contact Dr. Charles Ehrlich at (301) 975-4834 or at 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. A new project on software verification was also approved by the CIML in October 2008. The ILMG participated in NCWM Software Sector meetings in Columbus, Ohio, in March 2009. Please contact Dr. Ambler Thompson at (301) 975-2333 or at ambler@nist.gov if you would like to discuss OIML software efforts.

TC 6 “Prepackaged products” (South Africa)

NIST hosted the OIML TC 6 in Gaithersburg, Maryland to continue 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 was held in March 2009 in South Africa. Please contact Ken Butcher at (301) 975-4859 or at kenneth.butcher@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 now chairs a working group that is drafting the separate sections of R 71 and R 85 that will include the specific requirements for specialized tanks. The postal ballot review period for OIML R 80-1 “Road and rail tankers” was completed in January 2009, and the document was published in May 2009. Please contact Ralph Richter at (301) 975-3997 or at 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 2008 in Burlington, Vermont, and the NCWM Annual Meeting in July 2009 in San Antonio, Texas. Measurement Canada has also been

a strong contributor to this effort. Subcommittee work is continuing on the development of R 117-2 “Test methods” and R 117-3 “Test report format.” Meetings of the IWG for R 117-2 were held in Paris in November 2008 and Vienna, Austria, in April 2009. 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 5 “Water Meters” (UK)

OIML, ISO, and CEN 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. A working draft was distributed in January 2009, and a joint meeting of the three organizations was held in May 2009 in Ottawa, Canada. The joint working group is now developing a new committee draft based on submitted comments and decisions made in Ottawa. Please contact Ralph Richter at (301) 975-3997 or at ralph.richter@nist.gov if you would like copies to participate in this project.

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). The 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 and the excessive testing requirements are currently being reviewed by the new Secretariat and TC 8/SC 7. A request for comments from interested parties in the United States concerning the revision of R 139 was sent out in January 2009. Another new Recommendation R 140, “Measuring systems for gaseous fuel” has also received CIML approval and was published in June 2008. 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: 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 43rd 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 John Barton at (301) 975-4002 or john.barton@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 this Recommendation has now been published. 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 106-1 were sent in July 2008, and it is anticipated that this document will receive final CIML approval in 2009.

The Subcommittee approved a revision of R 107 “Discontinuous totalizing automatic-weighing instruments (totalizing hopper weighers),” and final approval was granted by the CIML, and the document was published in July 2008. The Secretariat accommodated U.S. concerns on this document by inserting a statement 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. The 5 CD of OIML R 59 was distributed to the Subcommittee in February 2009. 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 Ottawa, Canada, to discuss comments on the 1 CD, and a TC 17/SC 8 meeting was hosted by NIST to discuss the 2 CD. At the NIST 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 this document. 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 43rd 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 Publication 16.

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,” and
- 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),” and
- 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,” and
- 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,” and
- 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, and
- 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 13th 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,” and
- 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,” and
- 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,” and
- 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,” and
- 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 14th Conference.

IV. Future OIML Meetings

The 44th CIML meeting will be held in Kenya in October 2009. The Committee thanked the United States for inviting the CIML to hold its 45th 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 for more information.

Asia-Pacific Legal Metrology Forum (APLMF) Meeting

The 15th 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).

Appendix B

Final Report of the NCWM Associate Member Committee (AMC)

**San Antonio, Texas
Minutes, July 13, 2009**

CALL TO ORDER:

Chairman Paul Lewis called the meeting to order at 12:15 p.m.

MINUTES:

A copy of the January 2009 meeting minutes was distributed. These minutes were reviewed and one change was made; under **AMC FUND DISBURSEMENT REPORTS**, the following was added to the third paragraph: “This motion was seconded and approved.” Alex Schuettenberg made a motion to approve the minutes with the changes and Steven Grabski seconded it. With no further discussion, the minutes were approved.

FINANCIAL CONDITION:

A copy of the financial report was distributed. Chairman Lewis reviewed the deposit/disbursements and reported a current balance of \$4,205.36 as of July 1, 2009. Steve Grabski made a motion to accept the Financial Reports and Al Schuettenberg seconded it. With no other discussion the Financial Report was accepted.

BOARD OF DIRECTORS REPORT:

Robert Murnane, the Associate Membership Representative on the NCWM Board of Directors, gave a report about board activities.

- The Total Transition Expense to transfer the NCWM office from Rockville, Maryland, to Lincoln, Nebraska, was \$184,000.
- There is a projected net income of \$185,000 by the end of fiscal year 2009.
- There is a projected surplus of \$42,000 for the 2010 budget.
- The website needs to be converted to a different platform. The hourly cost will go from \$150/hour to \$85/hour. Current annual hosting cost is \$6,600 vs. \$350 with the new host.
- At last count, there were 36 State Representatives at this meeting.
- Bob reported that there were discussions about splitting the S&T Committee into two groups: Weighing and Measuring. The reasons given were to improve quality and expedite workload.
- It was mentioned that the committee reports will no longer contain any written testimony in the hard copy of Pub 16; however, these testimonies will be on-line and in the CD version of Pub 16.
- The BOD strategic plans:
 - Investigating the possibility of opening a NCWM brick & mortar NTEP lab. (Some tests will be performed at the manufacturer’s facility)
 - Update contact information of Certificates of Conformance (CC) at no charge (changes will be made when the annual maintenance fees are paid).
 - Steve Langford discussed the proposed Verified Conformity Assessment Program (VCAP) checklist.
 - Still talking about moving the NTEP CC database to the members only website.
- The 2011 NCWM Annual Meeting will be in Missoula, Montana.

PROFESSIONAL DEVELOPMENT REPORT:

Steve Grabski, the Associate Membership Representative on the PDC, gave a report about the Committee's activities.

- A national training program is being created and a Beta exam will be ready by the end of the year.
- Tests will be given on-line with random questions.
- One re-test will be allowed if the initial test is failed.
- The Beta test will be free.
- There will be a fee to take the actual test.

LAWS & REGULATIONS REPORT:

Rob Underwood, the Associate Membership Representative on the L&R Committee, gave a report about the Committee's activities. The Committee will be hearing comments on the "Guidance on Allowing for Moisture Loss and Other Revisions" Section 260-1. Members of the AMC should highlight their questions and concerns during the open hearings because of the number of revisions to that section.

AMC FUND DISBURSEMENT REPORT:

Chairman Lewis reported on the disbursement:

- \$1,000 was requested by Charles Carroll from the State of Massachusetts for training but as of today Mr. Carroll has not submitted an Expense Reimbursement Form for AMC Training Funds.
- Kenneth Ramsburg from Maryland Weights and Measures requested \$1,500 for training. This request was at first denied because it was to reimburse a trainer of a single private company to come to Maryland to train inspectors on their equipment. Upon further questioning, it was revealed that several companies were asked to come and train; however, only one company accepted this request. With this information the request for \$1,500 was approved. Will Wotthlie was notified that the request for these funds was approved; Mr. Wotthlie recalled the request for the \$1,500.
- Steve Bommann from Colorado Weights and Measures requested \$1,000 for books, DVDs and CDs for training, and Jonathan Handy, also from the Colorado Weights and Measures, submitted an Expense Reimbursement Form for AMC Training Funds for \$272.78. A check was written for this amount to Colorado Weights and Measures.
- At the Interim Meeting in January, it was voted to give each of the four regions \$2,000 for training. Chairman Lewis reported that these funds were dispersed and read the letter that accompanied these disbursements. A thank you letter from NEWMA was also read.

FILLING VACANT POSITIONS:

- Steve Grabski accepted another one-year position on the PDC.
- Rob Underwood accepted another five-year position on the L&R Committee.
- Darrell Flocken accepted the Secretary/Treasurer position.
- Robert Murnane accepted the Vice Chair position.
- Paul Lewis accepted another five-year term on the AMC.
- Rob Underwood accepted another one-year term on the AMC.
- Steven Grabski accepted another two-year term on the AMC.
- Kathleen Madaras accepted another two-year term on the AMC.

OLD BUSINESS:

Proposed changes to the by-laws and training fund guidelines were presented by Steve Patoray and Bob Murnane and discussed.

NEW BUSINESS:

The PDC requested \$1,000 to purchase video equipment to record training seminars. Bob Murnane made a motion to give the PDC up to \$1,000 to purchase video equipment for training. Steve Grabski seconded the motion, and with no further discussion this motion was approved.

ADJOURNMENT:

With no further new business, Chairman Lewis adjourned the meeting at 1:55 p.m.

Respectfully submitted,

Paul Lewis, Chairman, AMC

The following individuals were in attendance:

Darrell Flocken – Mettler Toledo	Paul Lewis – Rice Lake Weighing Systems
Steven Grabski – Walmart	Kathleen Madaras – Fuel Merchants Association of New Jersey
Christopher Guay – Procter and Gamble	Kevin Mikoski – Irving Oil Terminals, Inc
Krister Hard af Segerstad – IKEA North America Services, LLC	Robert Murnane – Seraphin Test Measure
James Hewston – Scale Source	Pete O’Bryan – Foster Farms
Paul Hoar – Agri Fuels, LLC/NBB	Stephen Patoray – Consultants on Certification, LLC
Paul Hoffman – Kraft Foods Global, Inc	Rebecca Richardson – MARC IV Consulting
Zina Juroch – Pier 1 Imports	Alexander Schuettenberg – ConocoPhillips
Katherine Kirk – PETCO Animal Supplies Stores Inc.	Steve Steinborn – Hogan & Harson LLP
Dennis Kolsun – H.J. Heinz, Co.	Rob Underwood – Petroleum Marketers
Robert Lagg – Southwest Research Institute	Sayandro Versteyleen – PPI
Steve Langford – Cardinal Scale Manufacturing Co.	

Paul Lewis, Rice Lake Weighing Systems, Chair (2009)
Michael Gaspers, Farmland Foods, Inc, Vice Chair (2013)
Tom Herrington, Nestlé Foods, Secretary/Treasurer (2010)

Rob Underwood, Petroleum Marketer’s Assoc. (2009)
Chris Guay, Procter & Gamble, Chair (2010)
Dave Wankowski, Kraft Foods (2012)
Doug Biette, Sartorius North America (2012)
Darrell Flocken, Mettler-Toledo (2013)
Paul Hoffman, Kraft Foods (2013)

Associate Membership Committee

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