



# WEIGHLOG

SCALE MANUFACTURERS ASSOCIATION, INC.  
6724 Lone Oak Blvd. • Naples, Florida 34109  
<http://www.scalemanufacturers.org>

## SMA Member Companies

### REGULAR MEMBERS

Avery Weigh-Tronix, Inc.

Cardinal Scale Manufacturing Co.

Fancor, Inc.

Hobart Corporation

Hottinger Baldwin Measurements

LTS Scale Corporation

McKesson Automation Systems

Mettler-Toledo, Inc.

Sartorius Corporation

Systems Associates, Inc.

Vishay Transducers

### ASSOCIATE MEMBERS

A&D Engineering, Inc.

Doran Scales, Inc.

Flintec, Inc.

Rice Lake Weighing Systems



SCALE MANUFACTURERS ASSOCIATION, INC.

SUMMER 2005

## RICHARD G. NORDEN RE-ELECTED PRESIDENT

Richard G. Norden, president, & COO, Fancor, Inc., Kansas City, Missouri, was re-elected president of the Scale Manufacturers Association during the 60th Annual Meeting at the Radisson Suite Beach Resort on Marco Island, Florida.

Todd Manifold, general manager, light industrial PO, Mettler-Toledo, Inc., Columbus, Ohio, was re-elected vice president.

Members of the Board are:

Immediate Past President: Robert J. Schuller, general manager, weigh wrap, Hobart Corporation, Troy, Ohio.

Executive Director: Bob Reinfried.

Director: Doug Biette, vice president, technical operations, Mechatronics Division.

Director: Vacant. (Note, Jay Visco, oem segment sales manager, Vishay Transducers, Covina, California, was in the position but has subsequently left the company and the industry. We thank him for his service to the association while he was with us and wish him well in his new pursuits.)



President, Rick Norden, awards Steve Langford a certificate of appreciation for his service on the SMA Board of Directors where he has served since 2003.

## TECHNICAL COMMITTEE APPOINTMENTS

Stephen Langford, Cardinal Scale Manufacturing Company, Lou Straub, FANCOR, Inc., and Mark Knowles, Hottinger Baldwin Measurements, were re-appointed to new three-year terms on the SMA technical committee with terms expiring in 2008 while Mark McCombs, Vishay Transducers, was appointed to a two year term expiring in 2007.

Carryover members are, Doug Biette, Sartorius Corporation, Nigel Mills, Hobart Corporation, Darrell Flocken, Mettler-Toledo, Inc., Leon Lammers, Avery Weigh-Tronix.

Darrell Flocken remains chair and Steve Langford remains vice chair. Phil Hannigan remains technical assistant to the committee.

## OFFICERS

### **President**

Richard G. Norden  
FANCOR, Inc.

### **Vice President**

Todd Manifold  
Mettler-Toledo, Inc.

### **Immediate Past President**

Robert J. Schuller  
Hobart Corporation

### **Executive Director**

Robert A. Reinfried  
SMA

## DIRECTORS

### **Term Expires 2006**

Robert J. Schuller  
Hobart Corporation

### **Term expires 2007**

Todd Manifold  
Mettler-Toledo, Inc.

### **Term expires 2008**

Richard G. Norden  
FANCOR, Inc.

Doug Biette

Sartorius Corporation

## STAFF

### **Technical Assistant**

Philip G. Hannigan

### **Meeting Coordinator**

Kimberly MacLaren

## NTEP Directors Questions for 2005 Decided at SMA Annual Meeting

Since 1997, in the interest of promoting uniformity of interpretation throughout the NTEP community, the Scale Manufacturers Association has developed three or four questions per year that would be asked of the State Directors at each regional Weights and Measures Association meeting throughout that year. Each year we ask for candidate questions about the NTEP program from SMA, NIST/OWM, NCWM, and State Directors. The candidate questions are balloted and scored by degree of interest. At the SMA Annual Meeting the final list for the year is determined.

The following questions will be discussed in the 2005 round.

### **QUESTION ONE:**

Once the NCWM Conformity Assessment Program is in place, do you envision your inspectors doing anything different and, if so, what?

### **QUESTION TWO:**

The VCAP committee has created a sub-committee to develop an Initial Verification Process. Do you agree that initial verification testing should be more complete than subsequent verification testing? If you agree, are you interested in participating in the development and/or the testing of this process?

### **QUESTION THREE:**

A distribution company, located outside your jurisdiction, sells a price-computing scale to a user within your jurisdiction. The scale purchaser is instructed, by documentation included with the scale, to contact a local scale service company, or weights and measures inspector, for information on placing the scale in commercial use. What other requirements, if any, do you place on the distribution company?

---

## SMA WELCOMES BACK DORAN SCALES

Doran Scales was welcomed back to SMA as an Associate Member during the Annual Meeting in April. William J. Podl, CEO and President, is the company official representative while Mark W. Podl, VP and Engineering Director, serves as the company's alternate representative.

SMA membership is comprised of companies dedicated to the best interests of the scale industry as a whole; to the owners and users of scales, who are entitled to the best practical weighing equipment which can be produced; and to the public, which is so dependent upon accurate and dependable weights.

SMA has three classes of membership: **Regular**, **Associate** and **Corresponding**. For more information on SMA, Membership Qualifications, and Dues, please visit our Web site, [www.scalemanufacturers.org](http://www.scalemanufacturers.org).

## SMA's 60th ANNUAL MEETING ANOTHER SUCCESS



Dave Castle (Avery Weigh-Tronix), Paul Lewis (Rice Lake Weighing), Darrell Flocken (Mettler-Toledo, Inc.), Mark Podl (Doran Scales, Inc.), Steve Beitzel (Systems Associates, Inc.) and Wes Diggs (NCWM) take notes during a presentation at the Annual Meeting.

The SMA's 60th Annual Meeting convened at the Radisson Suites Beach Resort on Marco Island, Florida, from Wednesday, April 20 to Friday, April 22, 2005. The abbreviated format, 3 vs. 4 days continued to be popular. Thirteen of the fifteen member companies were represented as well as representatives from GSE Scales and Group Four Transducers who attended as potential members.



Jay Visco (Vishay Transducers), Todd Manifold (Mettler-Toledo), Rick Norden (FANCOR, Inc.) and Nick Marck (Vishay Transducers) listen to presentation at the General Session of the SMA 60th Annual Meeting.

Attendees had an opportunity to directly hear and discuss the status of weights and measures issues before the National Conference on Weights and Measures from the NCWM Chair, G. Weston (Wes) Diggs. Members also had an opportunity to directly hear and discuss the status of proposals and programs at the NIST Office of Weights and Measures from Henry Oppermann, the Chief of that division. Those attending the Technical Committee meeting also had an opportunity to interface directly with Steve Cook, a key scale systems staff member of the Weights and Measures Division, who discussed national and international technical issues.

Technical Committee reported that the revision of the NTEP Maps that we adopted at the Fall Meeting is being well received and meets current needs. Readers may recall that the NTEP Adoption Status Map was replaced with one that shows **States that Require a NTEP CoC** regardless of their formal adoption of the NTEP program. A second map shows **States that Require Registration of Service Agencies and Service Personnel**. The Committee agreed to pursue development of a third map that shows **Sales Personnel Registration Required**. The first two are available for download on the SMA Web Site. The third will also be downloadable when we complete it. The Technical Committee reported that there is no need for a SMA USB Protocol. Those companies that need one have already produced one. The Committee did determine that there is a need to examine emerging technologies and prepare SMA Standard Interface Protocols for those technologies in advance of their widespread adoption in the marketplace.



L-R Doug Biette (Sartorius Corporation), Steve Torres (Group Four Transducers), Paul Lewis (Rice Lake Weighing Systems), Joseph Antkowiak (Flintec, Inc.), Nigel Mills (Hobart Corporation) and Steve Langford (Cardinal Scale Manufacturing Company) respond to comments by Jerry Wang (A&D Engineering) at the Technical Committee Meeting.

An Industry Round Table was conducted and allowed the members to share their perceptions of the business climate and the problems that confront the industry.

The meeting also included an outside reception and dinner where the weather was perfect and the guests were treated to a wonderful Florida sunset.



L-R Jay Visco (Vishay Transducers), Leon Lammers (Avery Weigh-Tronix), Steve Beitzel (Systems Associates, Inc.), Jeff Robidoux (Flintec, Inc.) Mark Knowles (Hottinger Baldwin Measurements), and Mark Podl (Doran Scales, Inc.) at the Technical Committee Meeting.

**UPCOMING MEETINGS OF INTEREST TO  
SMA MEMBERS**

**Western W&M Association Annual Meeting**

Ritz Carlton, Phoenix AZ  
September 11 - 15, 2005  
<http://www.westernwma.org>

**Central W&M Association Interim Meeting**

The Lodge, Bettendorf, IA  
September 18 - 20, 2005  
<http://www.cwma.net>

**NTETC Weighing Sector Annual Meeting**

Columbus, OH  
September 25-27, 2005

**Northeast W&M Association Interim Meeting**

Location TBD  
October 5 - 6, 2005

**Southern W&M Association Annual Meeting**

Millennium Maxwell House Hotel,  
Nashville, TN  
October 23 - 26, 2005  
<http://www.swma.org>

**SMA Fall Meeting**

Beaver Run Resort, Breckenridge, CO  
November 9 - 11, 2005  
<http://www.scalemanufacturers.org>

**NCWM 91st Interim Meeting**

Omni Hotel, Jacksonville, FL  
January 22 - 25, 2006  
<http://www.ncwm.net>

**Central W&M Association Annual Meeting**

Holiday Inn Dayton Mall, Miamisburg, OH  
April 30 - May 3, 2006  
<http://www.cwma.net>

**NCWM 91st Annual Meeting**

Chicago Marriott, Chicago, IL  
July 9 - 13, 2006

**Southern W&M Association Annual Meeting**

Annapolis, MD  
November 5 - 8, 2006  
<http://www.swma.org>

**Wes Diggs Reports on NCWM and NTEP Issues at Fall Meeting**



Wes Diggs addresses the SMA Annual Meeting.

G. Weston (Wes) Diggs, Chair of the National Conference on Weights and Measures, provided an overview of the status of major items of interest regarding the NCWM and NTEP. Some of his points are grouped and summarized below.

The relationship between the NCWM and NIST: Both organizations have areas and priorities where their interest and funding coincide and they have areas and priorities where they do not. They have scheduled several meetings whose purpose will be to understand their differences and common areas of agreement.

Handbook 44 Revision/Update: The handbook is used by most States to enforce Weights and Measures. It is the basis of NTEP Publication 14 requirements. The NCWM controls Publication 14 through the NTEP committee. He is concerned that industry and others are using the NTEP Sectors to get Publication 14 changes that, in turn, back into Handbook 44 rather than using the NCWM process to change Handbook 44 first. There is also a need to get rid of legacy items in Handbook 44.

Conference involvement in International Legal Metrology: NIST is committed to International Legal Metrology by statute. The NCWM's interest in International Legal Metrology comes by way of the Mutual Acceptance Arrangement (MAA) and its potential impact on its laboratories. The NCWM will participate in the MAA only as a Utilizing Participant and will not sign on to it as a full participant unless and until it is able to become an Issuing Authority.

Necessity for a NCWM Lab: The NCWM will not become an Issuing Authority until it has laboratory resources to support issuance of OIML Certificates. It will take some time to sort out the laboratory issue. Will they upgrade one or several State laboratories? Should they contract out to private laboratories to do the testing? Should NCWM fund and build a new laboratory that meets all of the requirements?

The SMA sincerely appreciates the continuing support that the officers of the National Conference on Weights and Measures have provided to our association and their efforts to enable their officers to meet with us at our Annual and Fall meetings.

## Henry Oppermann Reports on OIML and NIST Issues at Annual Meeting

**Editors Note:** *Some time after the SMA Annual Meeting, we learned that Henry Oppermann was retiring from government service and moving his family to New Orleans, Louisiana. We deeply appreciate his service to the weights and measures community throughout his service and, especially, the close working relationship that he fostered and maintained between him, his staff, and the Scale Manufacturers Association. We wish him nothing but success and contentment in his next chosen endeavors. At the SMA Technical Committee meeting, which was held in conjunction with the NCWM Annual Meeting in July, the SMA, represented by Executive Director, Bob Reinfried, presented Henry with a plaque to commemorate his service.*



Bob Reinfried presents Henry Oppermann with a plaque in appreciation of his service to the country, the industry, and our Association on the occasion of his retirement from government service.

At the SMA Annual Meeting, Henry Oppermann, Chief, Weights and Measures Division, National Institute of Standards and Technology, provided an update on NIST and OIML activities, as well as his perceptions of problems, issues, and opportunities in the national weighing and measuring environment. Some of his points are grouped and summarized below.

With the onset of OIML Directive D11 "General requirements for electronic measuring instruments", NIST sees no need to continue support of OIML Requirement R74 "Electronic weighing instruments", of which the U.S. has been the sponsor. Unless the SMA has an objection to withdrawing R74, they intend to propose withdrawal at the next OIML meeting.

NIST is examining the impact of adoption of OIML directives in the U.S. on State and local inspectors and labs. They believe there will be very little impact on field inspectors but there may be an impact on laboratories.

They have conducted a survey of the States to determine what is needed to revive support for weights and measures programs. They have benchmarked the programs and have conducted a needs assessment. They have not released the report since they are concerned with the accuracy of the data and, more importantly, what the data means. Their data may be helpful to SMA as it conducts its survey though the details of data sharing will have to be mutually agreed upon.

One thing that did come out of the survey is that Weights and Measures officials want model W&M programs available against which they can benchmark their own programs. OWM is working on one. Part of that will be to determine which EPOs are no longer useful or relevant considering the advance of W&M technologies. They would like SMA to provide inputs on elements of an ideal program.

They are looking at the best practices and workarounds of the "frontier jurisdictions" - i.e. jurisdictions that have good local support, funding, and well managed programs.

They believe there is a need for a seminar and/or workshops for new weights and measures administrators and directors. Of the many new people appointed to these positions in the last three years, only two have weights and measures experience. This is not a good omen for the future unless these people are brought together and familiarized with the critical issues. The first workshop was scheduled for one to two days in the summer. SMA was invited to provide inputs on topics that should be covered.

They are continuing their mission to move the U.S. to a voluntary adoption of the metric system.

They are asking Congress to rewrite the Packaging Standards Act to allow consumer packages to have net contents only in metric with unit pricing in pound and metric units. They believe that globalization is changing the U.S. attitude towards the metric system, especially in the area of exports.

## NEWS YOU CAN USE

In case you did not receive a paper copy of the latest NIST Weights and Measures Quarterly, it is available as a PDF document from the home page of the NIST Office of Weights and Measures at the following link: <http://ts.nist.gov/ts/htdocs/230/235/owmhome.htm>

Some items of particular importance to many members are summarized below:

### How Useful Is Your Audit Trail Device Security CD?

Juana Williams of NIST/WMD wants to know if you are satisfied with the computerbased training (CBT) CD-ROM on Audit Trail Device Security (NIST SP 1010), which was released in August 2004. Since its release, WMD distributed over 500 CDs to weights and measures officials and device manufacturers. Each CD was shipped with a postage-paid customer satisfaction card to encourage users to send us feedback about the CD. Thanks to everyone who returned a customer satisfaction card. Your feedback helps WMD improve its training program to better serve you. If you have not yet taken the time to send in your comments, please take five minutes to complete the card. Let us know what features you valued most and which elements you would like to see changed. If there are other topics you want developed into training materials, indicate that on the card as well. Each card is preaddressed and requires no postage to return. After completing the card, just fold it in half, tape it shut, and drop it in the mail. Copies of the CD are still available at no charge; if you need CDs, extra cards, or User Guides, please contact WMD by email at [owm@nist.gov](mailto:owm@nist.gov), by telephone at 301-975-4004, or by fax at 301-926-0647.

Three new directives from the European Community will have a direct effect on your manufacturing businesses:

#### ***RoHS: DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL - of 27 January 2003 - on the restriction of the use of certain hazardous substances in electrical and electronic equipment***

- Effective July 1, 2006 - Can't use certain heavy metals (lead solder, cadmium, etc.).
- Big effect on soldering and flame retardance in circuits and wires among others.
- Have to be compliant by June 30, 2006.
- Measuring equipment will most likely be included.
- US may not be far behind - The Northeast Governors Conference has recently committed to prohibiting heavy metals regardless of equipment.

#### ***WEEE: DIRECTIVE 2002/96/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL - of 27 January 2003 - on waste electrical and electronic equipment***

- Effective August, 2005 (2 Wheel Trash Barrel Symbol).
- Will require Manufactured before and after August 2005 date on equipment to determine what can be grandfathered.

#### ***DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL - of 15 December 2004 - on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC***

- This document will impact the testing and certification of all electronic equipment including scales.

# SMA POSITIONS AND VOTING OUTCOMES AT THE NCWM ANNUAL MEETING - 2005

Each year the SMA devotes a lot of its time and resources to identifying technical issues that are proposed for addition to NCWM Handbook 44 and other regulatory weights and measures documents. Our purpose is to encourage good ideas and to thwart ideas that may solve parochial problems but might cause problems elsewhere in the weights and measures universe. We endeavor to explain our viewpoint and work hard to bring others to see our point of view. This year we were mostly successful but failed to prevail in one or two issues. The results of the voting on issues of importance to SMA are shown below.

## **310-1 (I) G-S.1. Identification; Built-for-Purpose Software-Based Devices, Table G-S.1. Identification, G-S.1.1. Location of Marking Information for Not-Built-For-Purpose, Software-Based Devices, and Appendix D; Definition of Not-Built-for-Purpose Device**

The SMA opposed this item in its current form and recommended that it be withdrawn.

Rationale: The current proposal encompasses more than the original intent.

### [NCWM Final Vote](#)

The S&T Committee withdrew this item from their agenda and recommended interested parties to develop and resubmit a new proposal if appropriate.

## **320-1 (V) S.1.1. (c) Zero Indication; Requirements for Markings or Indications for Other than Zero Indications**

The SMA opposes this item.

Rationale: The current process, as allowed by S.1.1.c., is sufficient to prevent facilitation of fraud.

### [NCWM Final Vote](#)

The S&T Committee changed the status from voting to informational to allow additional time to assess whether or not marking could be displayed as part of the indication rather than being physically marked on the device. (This not the direction we want this item to go. We want the item to be dropped.)

## **320-2 (V) S.1.8.4. Recorded Representations, Point-of-Sale Systems; Footnote 1**

The SMA supports this item.

### [NCWM Final Vote](#)

This item was on the “voting consent calendar”. The “voting consent calendar” items were passed; hence, this item was approved.

## **320-3 (V) U.R.1.6. Computing Scale Interfaced to a Cash Register**

The SMA opposes this item but recommends the removal of (a) thru (d).

Rationale: Paragraphs (a) thru (d) impose application restrictions.

### [NCWM Final Vote](#)

The S&T Committee adopted the SMA position and the item passed 13 to 0.

## **320-4 (V) S.2.1.3. Scales Equipped with an Automatic Zero-Setting Mechanism (Zero Tracking), S.2.1.3.1. For Scales Manufactured Before January 1, 2007 ; Maximum Load Rezeroed, S.2.1.3.2. For Scales Manufactured After January 1, 2007 ; Maximum Load Rezeroed, and S.2.1.3.3. Automatic Zero-Setting Mechanism (Zero Tracking) on Class III L Devices**

The SMA opposes this item as written. The SMA would support the item with the following changes:

**S.2.1.3.1. For Scales with CoCs issued Before January 1, 2006 ; Maximum Load Rezeroed,**

**S.2.1.3.2. For Scales with CoCs issued After January 1, 2006 ; Maximum Load Rezeroed,**

Rationale: 1. It is much easier for a field inspector to determine CoC’s issue date of a device than the manufacture date.

2. Reduces the resource burden on the manufacturer.

3. SMA believes that this is an OIML harmonization issue and has not technical justification.

### [NCWM Final Vote](#)

This item was on the “voting consent calendar”. The “voting consent calendar” items were passed; hence, this item was approved. The committee did not accept the SMA recommendation to use the CC issue date and remained with the date of manufacturer. Changed implementation date to 2007.

## **320-5 (V) Table S.6.3.b. Notes For Table S.6.3.a. Note 3; Nominal Capacity and Value of the Scale Division and Appendix D ; Definition of Reading Face**

The SMA supports this item.

### [NCWM Final Vote](#)

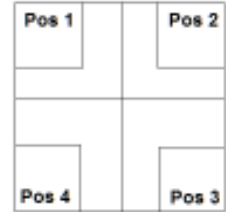
This item was on the “voting consent calendar”. The “voting consent calendar” items were passed; hence, this item was approved.

**SMA POSITIONS AND VOTING OUTCOMES AT THE NCWM ANNUAL MEETING - 2005 (Continued)**

**320-6 (I) N.1.3.1. Bench or Counter Scales, N.1.3.8. All Other Scales Except Crane Scales, Hanging Scales, Hopper Scales, Wheel-Load Weighers, and Portable Axle-Load Weighers, and Appendix D; Definitions of Bench Scale and Counter Scale**

1. The SMA supports this item.
2. The SMA believes the Figure 2 is in error and is inconsistent with the wording of the proposal. The weight positions should be moved to the outside corners and the Load Bearing Points should be removed since they are irrelevant.

*(Note: Figure 2 is still wrong, or inconsistent. Removed Load Bearing Points per SMA suggestion but kept the circles and renamed them "Corner Positions" instead of using squares as they did in figure 1.)*



**NCWM Final Vote**

This item remained informational; however, the committee did modify Figure 2 as recommended by the SMA. The committee is still looking for more test data to support this item.

**320-8 (V) T.N.4.5. Time Dependence, General, T.N.4.5.1. Time Dependence; Class II, III, and III Nonautomatic Weighing Instruments, T.N.4.5.2. Time Dependence; Class III Non-automatic Weighing Instruments, T.N.4.6. Time Dependence (Creep) for Load Cells During Type Evaluation, T.N.4.6.1. Permissible Variations of Readings, T.N.4.6.2. Apportionment Factors, and Definitions of  $D_{max}$ ,  $E_{max}$ , and Non-automatic Weighing Instrument**

The SMA supports only T.N.4.5.

The SMA does not support the additional paragraphs and sub-paragraphs.

Rationale: The change in T.N.4.5. provides Handbook 44 traceability to, and rationale for, this Publication 14 test.

**NCWM Final Vote**

This item passed by a vote 27 to 10 in the house of representatives and 28 to 8 in the house of delegates.

**320-9 (V) List of International Symbols Noted as Acceptable**

The SMA supports this item provided:

1. The description is changed to "List of Common International Symbols".
2. The Symbols themselves are cleaned up and made consistent in size and font.
3. Remove "Non-Acceptable" column and "Device Application" column.
4. Change column head "Term" to Function, and column head "Acceptable" to Symbol.
5. Add note stating that there are other approved common symbols that are not included in this list.

**NCWM Final Vote**

The CWMA and NEWMA supported the SMA position. The item remained informational.

**360-5 Developing Issues**

**Part 2, Scale Code: Modify Table 4 Minimum Test Weights and Test Loads**

SMA suggests adding a fifth row to Table 4:

Table 4. Minimum Test Weights and Test Loads <sup>1</sup>			
Device capacity	Minimums (in terms of device capacity)		(where practicable)
	Test weights (greater of)	Test loads <sup>2</sup>	
250,001 kg (500,001 lb)	30,000 kg (62,500 lb)	25 %	Test weights to dial face capacity, 1 000 d, or test load to used capacity, if greater than minimums specified  During initial verification, a scale should be tested to capacity.

**NCWM Final Vote**

The S&T committee agreed with the SMA proposal and recommended that this be moved to voting in January 2006.