



# WEIGHLOG

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

SPRING - SUMMER 2003

## SMA Memeber Companies

Avery Weigh-Tronix, Inc.

Cardinal Scale Manufacturing Co.

Fancor, Inc.

Hobart Corporation

Hottinger Baldwin Measurements

John Chatillon & Sons, Inc.

LTS Scale Corporation

McKesson Automation Systems

Measurement Systems International, Inc.

Mettler-Toledo, Inc.

Sartorius Corporation

Systems Associates, Inc.

Vishay Transducers



## ROBERT J. SCHULLER RE-ELECTED PRESIDENT

Robert J. Schuller, general manager, weigh wrap, Hobart Corporation, Troy, Ohio, was re-elected president of the Scale Manufacturers Association during the 58th Annual Meeting in Marco Island, Florida.

Founded in 1945, Schuller is SMA's 31<sup>st</sup> president.

Richard G. Norden, president, & COO, Fancor, Inc., Kansas City, Missouri, was re-elected vice president.

Elected to three-year terms on the SMA Board of Directors were:

Jay Visco, OEM sales manager, HBM, Inc., Marlboro, Massachusetts.

Robert J. Schuller, general manager, weigh wrap, Hobart Corporation, Troy, Ohio.

Carryover members of the Board are:

Stephen Langford, vice president, marketing, Cardinal Scale Manufacturing Company, Webb City, Missouri.

Richard G. Norden, president, & COO, Fancor, Inc., Kansas City, Missouri.



Danel and Sabine Bruno (HBM, Inc.) congratulate Bob and Tam Schuller (Hobart Corporation) on his re-election as SMA President.

Todd Manifold, general manager, light industrial PO, Mettler-Toledo, Inc., Columbus, Ohio.

Completing a term as Director was Paul Huber, of A&D Weighing.

## TECHNICAL COMMITTEE APPOINTMENTS

Nigel Mills, Hobart Corporation, was re-appointed to a new three-year term on the SMA technical committee.

Doug Biette, Sartorius Corporation and Tim O'Brien, Vishay Transducers were appointed to three-year terms.

Carryover members are Darrell Flocken, Mettler-Toledo, Inc., Leon Lammers, Avery Weigh-Tronix, Inc., Stephen Langford, Cardinal Scale Mfg. Company, Dave Quinn, Fancor, Inc., and Mark Knowles, HBM, Inc.

## OFFICERS

### President

**Robert J. Schuller**  
*Hobart Corporation*

### Vice President

**Richard G. Norden**  
*FANCOR, Inc.*

### Immediate Past President

**David R. Castle**  
*Avery Weigh-Tronix, Inc.*

### Executive Director

**Robert A. Reinfried**  
*SMA*

## DIRECTORS

### Term expires 2004

**Todd Manifold**  
*Mettler-Toledo, Inc.*

**David R. Castle**  
*Avery Weigh-Tronix, Inc.*

### Term Expires 2005

**Stephen Langford**  
*Cardinal Scale*

**Richard G. Norden**  
*FANCOR, Inc.*

### Term Expires 2006

**Jay Visco**  
*HBM, Inc.*

## STAFF

### Technical Director

**Daryl E. Tonini**

### Technical Assistant

**Philip G. Hannigan**

### Meeting Coordinator

**Kimberly MacLaren**

## USB Standard Work Resumes

The SMA Technical Committee has decided to move forward with a Universal Serial Bus standard. The standard has been in a dormant status pending a better definition of a better technical and marketplace need to proceed. The initial work was done under the co-chairmanship of George Brazis, Avery Weigh-Tronix and Larry Hicks, Cardinal. Companies who have indicated interest in participating in the renewed effort are: Avery Weigh-Tronix, Inc. (George Brazis), Cardinal (Larry Hicks), Mettler Toledo (Larry Eichman), and Sartorius (Joe Lupfer). In addition to the USB Standard group's draft, Sartorius has offered to make available their USB work for this effort.

Review of the documents is about to get underway. Other member companies interested in participating or following the standard are requested to contact Phil Hannigan at SMA headquarters.

## Vehicle Truck Scale Characterization Standard is on SMA Web Site

Among the several SMA Standards available for free on the SMA Web Site, this standard is particularly useful. It is intended to provide criteria for characterizing the service life of a vehicle scale based on the CLC rating of the platform.

This knowledge can be used by potential scale owners and operators to select the proper scale for the application.

The criteria cover all drive-on vehicle scales that have a CLC rating specified by the manufacturer. They apply to both mechanical and electronic devices. On-board vehicle scales are not included.

## Arkansas Announces New Policy for Annual Testing of Devices

James C. Scott, Director, Arkansas Bureau of Standards has announced that recent legislation, Act 112 of 2003 requires owners of weighing and measuring devices used in commercial transactions to employ the services of an Arkansas Registered Service Agent to annually inspect, calibrate if necessary, and certify their devices for accuracy. Effective January 1, 2004 the Bureau of Standards will no longer perform annual testing of commercial devices.

Performing the annual certification inspection, approval decal specifications, sealing the device and processing the Official Annual Test Report was presented in June to interested parties at a seminar in Little Rock. Those companies doing business in Arkansas and who were not represented at the meeting are urged to contact Mr. Scott.



SMA Technical Director, Daryl Tonini, and newly elected SMA Director, Jay Visco (HBM, Inc.), welcome NCWM Chairman, Ross Andersen (NY W&M) to the SMA Annual Meeting.

## OIML Mutual Acceptance Agreement (MAA) Moves Forward

Dr. Charles Ehrlich, NIST/WMD reports that the Workshop on the OIML MAA and Checklists documents is now over, and Jean Francois Magana, BIML Director and Co-Secretariat of OIML TC3/SC5 (Conformity Assessment), and he have just completed revision of these documents based on the comments received and discussion at the Workshop. Several clarifications and compromises were achieved at the Workshop. Dr. Ehrlich and Magana are very optimistic that the MAA will pass the next postal vote and be put on the voting Agenda of the next CIML meeting in November, 2003, in Kyoto.

There are three documents coming out of the meeting: 1) the revised MAA document, 2) the revised Checklists document, and 3) a draft letter and Report that Ehrlich has prepared on the Workshop that covers the key issues discussed and what was agreed. He believes that there is nothing in these documents that is contrary to the direction and views that the U.S. (and particularly NCWM/NTEP) has taken in pursuing development of the MAA. Copies of these documents are available from Dr. Ehrlich.

Ehrlich states his belief that the most important components concerning NCWM/NTEP are that issuing authorities (intending to issue test reports under the MAA) and their testing laboratories will need to be either accredited or peer-reviewed (at their own expense, as has always been envisaged), with on-site visits required, and a representative from the "participant", which would be NCWM/NTEP, would need to serve on an "ad-hoc committee on participation review" (again at their own expense) for each category of instrument they wish to cover. (4.9 and 4.10 in MAA)

The most important new modification, from the NCWM/NTEP perspective, is that "additional" test requirements (beyond those required in the corresponding OIML Recommendation) are allowed without restriction on how different they are from OIML requirements, but they must be agreed upon (on good technical grounds) by the other members of the ad-hoc committee. Another noteworthy modification is that an OIML certificate will now automatically be issued along with the test report under the MAA, to 'validate' the test report. (5.3, 4.4 and 1.1 in MAA)

Dr. Ehrlich would be happy to talk to anyone about this, and will, of course, be prepared to discuss this with the Board or others at the Reno NCWM meeting. Contact information for Chuck Ehrlich is as follows:

Dr. Charles D. Ehrlich  
Group Leader, International Legal Metrology Group  
Weights and Measures Division  
Technology Services  
National Institute of Standards and Technology  
STOP 2600  
Building 820, Room 234  
Gaithersburg, Maryland 20899-2600

phone: (301) 975-4834  
fax: (301) 975-5414  
e-mail: [charles.ehrlich@nist.gov](mailto:charles.ehrlich@nist.gov)



Steven and Dawn Beitzel (Systems Associates, Inc.) join Monica and Darrell Flocken (Mettler-Toledo, Inc.) during a break in the SMA Annual Meeting Banquet.



"Together again for the n<sup>th</sup> time", David and Shirley Quinn (FANCOR, Inc.) enjoy getting re-acquainted with Rose Marie and Leon Lammers (Avery Weigh-Tronix Inc.) at the SMA Annual Meeting.

## **SMA PRODUCTION MEETS TYPE WHITE PAPER AVAILABLE ON WEB SITE**

The SMA Production Meets Type (PMT) program is a refinement of the National Type Evaluation Program (NTEP) that allows a manufacturer to declare to their consumers, with audited certainty, that the NTEP approved weighing and measuring products that they certify as PMT compliant will maintain accurate weight readings in the presence of temperature and other influence factors required by NTEP and Handbook 44 "Specifications and Tolerances". A White Paper on the program, describing "What it is", "Why it is needed", and "What it means to the consumer", is available for viewing and download on the SMA Web Site's Home Page - [www.scalemanufacturers.org](http://www.scalemanufacturers.org). Check it out.

## **PROPOSAL FOR ACCEPTABLE SYMBOLS SENT TO WEIGHING SECTOR**

At the NTEP Weighing Sector Meeting in September 2002, the SMA Technical Committee was requested to provide input regarding acceptable symbols for use on scales submitted for NTEP approval. This input will be the baseline from which the Sector Committee will start the discussion to develop its matrix of approved symbols for incorporation in paragraph 74, Publication 14.

The Technical Committee is basing its recommendations upon SMA Draft Revision 2 (April 2002), Human Interface Standard, Printed and Displayed Symbols and Pictograms which references a DIN standard DIN 8125-1:2000-02 (Graphic Symbols for the Weighing Industry). Copies of the proposal for "Acceptable symbols for Use on Weighing Devices" are available from the SMA office.

## **WEIGHING SECTOR TO MEET AT WWMA**

The NTEP Weighing Sector has scheduled its annual meeting September 11-13, 2003 in Fresno, California immediately preceding the Western Weights and Measures Association 46<sup>th</sup> Annual Conference. The meeting site will be the Piccadilly Inn University adjacent to the Fresno State University campus. Room reservations must be made by July 19 to insure space in the block of rooms reserved for the WWMA. The hotel's reservation phone number is 1-800-468-3587.

## **REVISION OF OIML D19 and D20 BEGUN**

The U.S. Technical Advisor for the International Organization for Legal Metrology (OIML) Secretariat for TC3, Metrological Control and TC3SC1, Pattern approval and verification has announced initiation of work to revise OIML documents D19 "Pattern evaluation and pattern approval" and D20 "Initial and subsequent verification of measuring instruments and processes".

The Secretariat has studied the existing documents and has concluded that the most efficient revision of D19 and D20 would be to combine them into a single document. A draft title for this combined document could be "Principles of metrological control of measuring instruments: type approval and verification". This combined document would also include appropriate concepts from other applicable, related OIML documents.

In addition the revision would reflect the recent evolutions in the 2003 edition of the OIML certificate system, D27 "Initial verification of measuring instruments utilizing the manufacturer's quality management system," and the draft document "Framework for a mutual acceptance arrangement (MAA) on OIML type evaluations". The terminology would be updated to reflect the current terminologies reflected in the Vocabulary for International Legal Metrology (VIML) and the Vocabulary for International Metrology (VIM).

These proposals are consistent with decisions of the International Working Group meeting of TC3 in June 1999. Those interested in this activity are requested to contact Dr. Ambler Thompson for a copy of the voting form. His phone number is (301) 975-5414, email: [ambler@nist.gov](mailto:ambler@nist.gov).

## W&M DIRECTOR DISCUSSIONS ADDRESS SMA QUESTIONS AT CWMA AND NEWMA

What has become known as the NTEP Directors' Discussion Breakfast event at regional weights and measures meetings for a number of years now has a new name and format. Due to SMA budget constraints, the by-invitation breakfast venue has been modified to a directors' discussion of questions which have been solicited by SMA from the NCWM S&T Committee, NTEP laboratories and the NIST Weights and Measures Division. These by-invitation sessions are now referred to as W&M Directors' Discussions and are being placed on the regional programs at the start of a program day. This format has been used successfully in 2003 at the Central Weights and Measures meeting in Grand Rapids, Michigan, and at the Northeastern Weights and Measures Association meeting in Grantville, Pennsylvania,

The questions for discussion in 2003 are:

- Does your jurisdiction routinely report to NTEP problems found during the initial field verification of devices and, if so, in what form is this report made?
- The use of 'active' junction boxes is becoming more common for larger capacity scales. A typical installation may have this box installed in the scale pit or under an access cover. Does this cause any additional concerns over the more common 'inactive' type?
- Given that H44 specifies that given classes of scales are suitable for typical applications, (UR.1 and Table 7a) and that scales not suitable for general use must be marked (Table 6.3a, note 13). Should we expect NTEP to make decisions about the suitability of most scale designs for use in specific applications?
- To what extent does your jurisdiction have the resources available to participate in an initial verification program? What would be your expectations if such a program were instituted?

In addition to the above, David Quinn, Fairbanks, is making a brief presentation in response to a question addressed by the directors in 2002:

During a field inspection of a Class III truck scale, it is found that an Original Equipment Manufacturer's load cells have been replaced with cells from another manufacturer. What Certificates of Conformance are looked at and what procedures are used to determine whether the scale is still covered by the manufacturer's CC?

If the load cells are replaced with "remanufactured" cells, how do you determine that they were repaired/remanufactured by the OEM or his authorized agent? How do you detect if a load cell has been remanufactured?

The responses to this question in 2002 showed that this important aspect of heavy capacity scale inspection is not being carried out for a number of reasons. Quinn's presentation gives inspectors a way to make the necessary determinations without having to address issues like entry into "confined spaces".

The Directors' answers to the questions are recorded and compiled and posted on the SMA website, [www.scalemanufacturers.org](http://www.scalemanufacturers.org), each year on a non-attributable basis.

## PLANNING MEETING ON W&M TRAINING

NIST Weights and Measures Division is in the process of developing a Strategic Plan for Training. To this end, an initial draft has been prepared and a meeting convened on June 18-19 at the Gaithersburg Holiday Inn. Weights and Measures officials in attendance were: Ross Andersen, New York Bureau of Weights and Measures and Chairman, NCWM; Constantine Cotsoradis, Kansas Department of Agriculture/W&M; Mark Coyne, Brockton Weights and Measures; Kenneth Deitzler, Pennsylvania Bureau of Rides and Measurement Standards; Brett Gurney, Utah Department of Agriculture & Food; Steve Hadder, Florida Department of Agriculture & Consumer Services; Stephen Pahl, Texas Department of Agriculture; Randy St. John, Jr., Pennsylvania Food Merchants Association; and Daryl Tonini, Scale Manufacturers Association. Presenters were: Henry Oppermann, Tina Butcher and Ross Andersen. Tom Coleman served as facilitator for the meeting. Lynn Sebring was the recorder for the proceedings.

Objectives of the meeting were to identify how the W&M community can work together to develop and deliver training and to obtain perspectives and input on key issues affecting our ability to effectively develop and deliver weights and measures training. Among the trends and environment affecting training delivery (1) decreasing resources, (2) staff turnover, (3) a general decrease in W&M officials' expertise, (4) significant lack of uniformity in enforcement practices, (5) decreasing technical depth and (6) a rapidly changing marketplace.

The discussion of these needs led into a recognition that multiple mechanisms/formats for training delivery are required, and the format of existing materials need to be reorganized with shorter sessions and with basic scales and measuring as core cores. A core group of instructors to provide training on behalf of WMD should be looked at, and alternative inspection approaches need to be explored.

**UPCOMING MEETINGS OF  
INTEREST TO SMA  
MEMBERS**

**NCWM 88<sup>th</sup> Annual Meeting**  
John Ascuaga's Nugget  
Sparks, Nevada  
July 13-17, 2003

**NTETC Weighing Sector  
Annual Meeting**  
Picadilly Inn University  
Fresno, California  
September 11-13, 2003

**Western W&M Association  
Annual Meeting**  
Picadilly Inn University  
Fresno, California  
September 14-19, 2003

**Southern W&M Association  
Annual Meeting**  
Hyatt Charlotte at South Park  
Charlotte, NC  
October 4-8, 2003

**SMA Fall Meeting**  
**LaPlaya Beach Hotel**  
Naples, Florida  
November 5-8, 2003

**NCWM Interim Meeting**  
Hyatt Regency Bethesda  
Bethesda, MD  
January 25-28, 2004

**SMA Annual Meeting**  
**Hotel TBD**  
Florida  
April 21-24, 2004

**Central W&M Association  
Annual Meeting**  
DoubleTree Hotel  
Omaha, NE  
May 2-6, 2004

**Northeast W&M Association  
Annual Meeting**  
Best Western  
Portsmouth, NH  
May 10-12, 2004



February 28, 2003

*Bill Goodpaster, my best and closest friend passed on today, February 28, 2003, succumbing to the cancer that had invaded his body.*

*I have known Bill since before WWII, when he left to serve in the Army in Europe. Upon his return he went to work for the same company I did, The Webb Corp. He worked there until 1948 when he left to move to Sacramento, CA., where he found employment with the LR Murphy Scale Company. I stayed on at Webb Corp. until 1958. When I left Webb, I immediately called Les Murphy and made arrangements to go to Sacramento to discuss making Murphy Scales in the Midwest. I was again brought in contact with Bill Goodpaster.*

*By 1973, our company had grown so, that with Bill Goodpaster's assistance, Cardinal bought the Murphy organization, including Denver, Colorado, where Bill had a satellite plant of Murphy. He immediately became the Vice President of the Sacramento plant, a position he held until his retirement in 2001.*

*Bill ran the Sacramento plant as if he owned it, and I trusted him completely. A wonderful, likeable person with many friends, he was revered by the entire scale industry. Bill worked hard at making scales and his contributions to the success of Cardinal Scales are immeasurable.*

*Bill, we will miss you.*

A handwritten signature in cursive script that reads "William Perry".

## **MEMBER COMPANY NEWS**

**SMA Members, Tedeo- Huntleigh and Sensortronics, along with Celtron, are now all part of Vishay Transducers.** The company headquarters is at 677 Arrow Grand Circle, Covina, California 91722. They can all be contacted through the Vishay Web Site, <http://www.vishaymg.com>, which carries links to all of the Vishay brands.

Mark Armstrong, Transducers Senior Sales Manager of the Americas, is the company's SMA Official Representative. He can be contacted at 800-626-2616.



# Scale Manufacturers Association Positions

For The Annual Meeting  
88th National Conference on Weights and Measures  
July 13-17, 2003  
John Ascuaga's Nugget Hotel  
Sparks, Nevada



## Agenda of the Board of Directors

### Conformity Assessment

SMA is concerned over the progress the BOD has made this past year. Also, SMA would like BOD input on the following:

1. Does the NCWM, Inc. consider SMA's CA program to be verified under the NCWM Pub 14 draft dated 4/14/03?
2. What criteria will the NCWM, Inc. use to verify other programs?

## Agenda of the NTEP Committee

### 501-2 Test Data Exchange Agreements

SMA restates its support for Test Data Exchange Agreements.

## Agenda of the S & T Committee

### General Code

#### 310-1 V G-S.1. Identification; Software Based Devices, and Appendix D; Definition of Built for Purpose Device

SMA Opposes this as a voting item. It creates an unequal playing field between Built for Purpose and Not Built for Purpose devices. SMA requests that it be rewritten so that Built for Purpose and Not Built for Purpose devices have the same requirements. SMA is providing proposed language and it will be provided NLT June 1.

### Scale Code

#### 320-1 V S.1.12. Manual Gross Weight Entries and UR.3.9. Use of Manual Gross Weight Entries

SMA Takes No Position on this item.

#### 320-2 V S.1.2.3. Prescription Scale with a Counting Feature, Table S.6.3.b. Note 13, S.6.6. Counting Feature Minimum Piece Weight and Number of Pieces, S.2.5.3. Class I and Class II Prescription Scales with a Counting Feature, Table 3 Parameters for Accuracy Classes Footnote 2, N.1.10. Counting Feature Test, T.N.3.10. Prescription Scales with a Counting Feature, UR.3.11. Recommended Minimum Count, UR.3.5. Special Designs, and Footnote 5

SMA Supports this item.

#### 320-3 V S.6.4. Railway Track Scales

SMA Supports this item.

#### 320-4 V Appendix D; Definition of Counter Scale

SMA Opposes this item. Without consideration of the shift test issue (previously part of the proposal), the changed definition has no value. SMA recommends the shift test be returned to the Weighing Sector. SMA supports definitions based on design rather than application.

**320-5 V N.1.3.4. Vehicle Scales, Axle-Load Scales, and Livestock Scales With More Than Two Sections, N.1.3.4.1. Vehicle Scales, Axle-Load Scales, and Combination Vehicle/Livestock Scales, N.1.3.4.2. Prescribed Test Pattern and Test Loads for Livestock Scales and Combination Vehicle/Livestock Scales With More Than Two Sections and N.1.3.8. All Other Scales Except Crane Scales, Hanging Scales, Hopper Scales, Wheel-Load Weighers, and Portable Axle-Load Weighers**

SMA Supports this item.

**320-7 V T.N.8.3.1. (a) Power Supply, Voltage and Frequency**

SMA Supports this item.

**320-9 V Appendix D; Definition for Concentrated Load Capacity (CLC); Dual Tandem Axle Capacity**

SMA Supports this item.

**320-10A V Appendix D; Definition of Substitution Test and Substitution Test Load**

SMA recommends an editorial change to strike the word “unknown” SMA Supports the definitions, as amended.

**320-10B V N.1.X. Substitution Test and T.X. Tolerances for Substitution Test**

SMA recommends an editorial change to strike the word “unknown” SMA Supports the definitions, as amended.

**320-10C V N.1.X. Strain-Load Test and T.X. Tolerances for Strain-Load Test**

SMA recommends adoption of the existing definition of a Strain-Load Test that appears in HB 44, Table 4, that says:” The tolerance applies only to the known test load.”

Rationale: It is already used that way in the Handbook and is much clearer as it exists.

**320-11 I N.1.3.4.1. Weight Carts**

SMA Supports this item.

### **Automatic Weighing Systems**

**324-1 Tentative Status of the Automatic Weighing Systems Code**

SMA supports the tentative code status pending resolution of the issues surfaced in the working group.

### **Multiple Dimension Measuring Devices**

**358-1 Tentative Status of the Multiple Dimension Measuring Devices Code**

SMA supports the Northeastern and Western Weights and Measures Associations’ recommendation that the item remain an informational until a work group can review the code requirements.

### **Developing Items**

**Item 1 N.1.3.4.1 Weight Carts**

The SMA supports this item.

**Item 2 T.M.3.X. Vehicle Scale Equipped Only With Weighbeam and Used to Weigh Aggregate**

The SMA takes no position on this item at this time.