



NCWM - NEWS

National Conference on Weights and Measures

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Chairman's Column

Kristin Macey, NCWM Chair — California Division of Measurement Standards



Dear NCWM Members,

Are you taking full advantage of your NCWM membership? I'd like to think that over the years I have, and I hate to think where I would be now in my career if I had not.

I introduced this year's theme in the context of how increasingly difficult it is to develop timely, uniform, and equitable weights and measures standards in light of the fast paced innovations in the marketplace. Since I came to California from Colorado in 2007, I've had lots of first-hand experience in dealing with new technology. Innovations such as commercial hydrogen and electric fueling systems and transportation network company apps come to mind. Fortunately in California, weights and measures is made up of a state/county partnership between the California Department of Food and Agriculture and the California Agricultural Commissioners and Sealers Association (CACASA). It has been a blessing to have this state/county collaboration. There are many gifted county officials, and many hands make light work.

They say you can't work in a vacuum. Amen. If it weren't for the educational opportunities offered at NCWM and regional weights and measures association meetings, and by NIST OWM, I would never have matured as an inspector. Nor would I have gotten

to know weights and measures officials in other jurisdictions who gave me sage advice when I most needed it. I would never have been forced out of my comfort zone and onto a committee (actually, lots of them) which gave me an opportunity for professional growth and technical knowledge. I would never have understood the reason behind changes to the NIST Handbooks, and I think it's important for regulators to know why they're doing things a certain way. I never would have met my husband. I never would have moved out of Colorado and ended up as state sealer for California. Or ever become your current NCWM chairman. None of it would have happened if I hadn't become an NCWM member.

When, ten years ago, California officials were faced with developing standards for hydrogen fueling systems, we knew we could count on help from NIST OWM and the NCWM process. A national work group for hydrogen was assembled with experts from industry and regulators and we noodled through the impact of this new technology. Today, there are more than 30 retail hydrogen stations throughout the country are open for business. A similar process was recently instituted for electric vehicle fueling systems and industry is now poised to provide devices for commercial applications.

Many people in the weights and measures profession will never have the opportunity to attend a NCWM meeting, so the regional weights and measures conferences afford members a personal connection with the work they do and the way in which our U.S. standards are developed.

Continued on page 2

They all meet at least once a year (Northeast (NEWMA) and Central (CWMA), twice a year), to conduct a grassroots review of carryover and new proposals. These meetings provide a real bang for the buck if your budget doesn't allow NCWM attendance. Also, they are often bundled with classroom training for field officials. This year, NIST will be offering training at the following regional conferences: price verification and CNG training (NEWMA), medium capacity scale training (CWMA), and livestock scale training at the Western (WWMA).

The annual NCWM conference is fast approaching (July 16 – 20 in Pittsburgh, PA), and you may be wondering whether or not to attend. Yes, you should! I hope I've convinced you that NCWM conferences are an investment in yourself and your career. It also allows you to bring fresh ideas back to your organization, so it's an investment for them as well. You'll get to meet the technical experts and leaders, face to face. You can't get these networking opportunities or establish relationships from a phone call or online learning channels, and the next time you need help you'll already have a connection with the person. If you are an industry member with new technology, please come and educate us. Committee members who understand the purpose and workings of new technology are better able to hone an agenda item such that it can be presented for vote and adoption as a standard. Remember that the observer fee for first-

time attendees is a fraction of the regular registration fee. This is an opportunity for those in the north east region to expose their staff to the conference by inviting them to attend.

What does this year's conference promise for attendees? There are over 30 voting items, on everything from ready-to-eat foods to transportation network measurement systems. There will be two very informative training sessions: "The Life Cycle of Petroleum from Well to Retail" and "Planning and Coordinating a National Market Place Survey." Three special groups will present updates on their activities: 1) The Charter Team, tasked with researching and proposing standards development process improvement options, 2) the Professional Development Committee, which has developed basic competency exams, and 3) the newly formed Safety Task Group which is identifying safety issues of particular relevance to weights and measures.

The Chairman's Reception and a very special outing at the famous Carnegie Science Museum featuring three floors of exhibits to explore and delicious dinner will add a little fun to round out the week's hard work.

Thank you for the honor and privilege to serve as this year's chairman of NCWM. I look forward to seeing many of you in Pittsburgh.

Kristing Maury

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NTEP CC: 11-112

"Fuel delivery has changed forever"

NTEP Column: "The Importance of Initial Verification"

By Jim Truex, NTEP Administrator

I have always personally advocated the importance of the first inspection and test of a new device installed for use in commerce. The "initial verification" of a new device is important for verifying many things.

- 1) That the device under verification complies with *NIST, Handbook 44* requirements and the information stated on the NTEP certificate (features, options, etc.).
- 2) That the device (and other main elements) are marked properly, are compatible, and the system complies with the applicable requirements of *NIST, Handbook 44*.
- 3) That the device was installed in a proper manner (suitability, position of equipment for the user and consumer, approach requirements for large capacity scales, length of discharge hose for retail meters) etc.
- 4) That the installer performed the job properly.
- 5) Confirmation to the owner of the device that he or she purchased a suitable device and the device was installed properly, so they got what they paid for.
- 6) Confirmation for NTEP that the production device is in compliance and the information provided on the NTEP certificate is correct.

If the regulatory authority does not conduct a comprehensive initial verification of a new installation it is a disservice to their constituents. That being said, previous conformity assessment efforts have told us that states have many different ideas and approaches regarding initial verification. Previous efforts have shown us that most states are not willing to complete a comprehensive or even simple checklist

to document initial verification results. While not ideal, it is clear that many states are simply unable to assist NTEP with a comprehensive conformity assessment effort through initial verification. My conclusion is that they just do not currently have the budget and workforce resources.

NTEP needs the help of the regulatory officials, service technicians and inspectors to identify devices that do not conform to the certificate, in other words are not the same as the device being described on the NTEP certificate. NTEP does not approve devices, rather NTEP evaluates devices, issues certificates for devices and has a responsibility to ensure production devices continue to comply with the certificate.

NCWM has attempted to make it as easy as possible for you to report noncompliance issues found during initial verification to NTEP. Using the NCWM website www.ncwm.net, click on NTEP, then "Conformity Assessment", then "Initial Verification". There you will find an "Initial Verification Report" that can be completed to provide feedback to NTEP. (Note: the verification report form can only be accessed by NCWM members and only needs to be used to report non-compliance issues.) The report asks for very minimal information and can be completed in a minute or two.

We hope this article has helped answer some questions for regulatory officials and that it will encourage more to assist NTEP with conformity assessment through initial verification. If you have additional questions or would like to discuss the content of this article, contact Jim Truex at jim.truex@ncwm.net.

Employment Opportunities

NCWM is proud to serve the weights and measures community, both private and public sectors, by listing employment opportunities in related fields. Any organization that maintains memberships with NCWM may request positions be posted online for public viewing at www.ncwm.net/resource/employment-opportunities.

If you wish to post employment opportunity information, please send inquiries to don.onwiler@ncwm.net.

NCWM WELCOMES NEW MEMBERS (1/20/17 - 4/24/17)

2nd Sight BioScience
Monika Cetnarowski

AMCS Group
Emily Walters

Argonne National Laboratory
Theodore Bohn

AZ Dept. of Agriculture: Weights and Measures

Kevin Allen
Lloyd Austin
Michael Brooks
Ephram Cordova
Mauro Nieves
Linda Wetzel
Charles Zach

BP
Beverly Michels

Butte County W&M
Uriah Johnson

California SubMetering
Sterling Gilbert

Catsquared
Brandon Butler

City of Neenah
Katie Osthelder

Colorado Division of Oil & Public Safety

Kyle Campbell
Orren Doss
William Holman

Robert Schlegel
Amy Wilson

Control Module Inc. (EVSE LLC)
David Parmelee

Effegielle SRL
Irene Dilda

FL Dept. of Agriculture & Consumer Services
Valeria Cheeping
Jenys Douglas

Fusion Automation Inc.
David Ferrie

Gravity Measurement, Inc.
Z. Rick Pang

Griffith Energy Services, Inc.
John Hall

LDJ Manufacturing Inc.
Fred Buser

Les Balances Papp
Sebastien Rocher

LW Measurements LLC
Paula Butterworth

Maine Department of Agriculture, Conservation and Forestry
Travis Schafer

Maryland Department of Agriculture
Shelley Bello
Brian Flagg

Measurement Canada
Paige Vinten

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Alberto Flores

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Dr. Douglas Olson

Oil & Gas Process Solutions
Mike Brown

ParTech, Inc.
Rick Elliot

RDT Systems Inc.
Eziel Fleischman

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Tracie Hershberber

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Sunlight Supply, Inc.
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Syracuse Scale Co., Inc.
John Venner

Telefonix Inc.
John Hipchen

Truck and Engine Manufacturers Association
Roger Gault

Tuthill Transfer Systems
Craig Cavanaugh

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Diane Fox

NCWM Member Benefits!



Complimentary:

- NIST Handbooks 44, 130, and 133
- NCWM-News Subscription (3 issues/per year)
- Workgroup & Sector Meeting Registration
- Professional Certification Exams
- Posting of Employment Opportunities

Discounts:

- NCWM Meeting Registration
- NCWM Publication 14
- NTEP Application & Annual Maintenance Fees

Online Access to:

- Member Directories
- Board Meeting Minutes
- NCWM Strategic Plan and Policies

Opportunities:

- Serve on Committees, NTEP Sectors & Task Groups
- Networking

Encourage your colleagues to join today at
www.ncwm.net/about/membership/renew-join

102nd NCWM Annual Meeting

July 16 - 20, 2017 | Pittsburgh, Pennsylvania

The Annual Meeting is the high point of our year where all the hard work pays off. At this meeting, stakeholders will debate important proposals to amend the United States standards for weights and measures. When the debating is done, the votes will be cast.

Our committees have their work cut out for them with some very full and diverse agendas. Committee agendas can be viewed at www.ncwm.net/meetings/annual/publication-16.

Special Presentations Include:

The Life Cycle of Petroleum from Well to Retail

An overview on motor fuels from exploration of crude oil to retail gasoline and diesel. The presentation will cover refining to ASTM standards, pipeline and state requirements, pipeline and terminal additives, ethanol and biodiesel and finish at the retail station.

Planning and Coordinating a National Market Place Survey

Presentation on conducting an effective nationwide marketplace survey. Guidance on survey planning, training participants, inspection documentation, evaluation of survey results and sharing/publishing survey results.

Our Special Event Will Be:

The Carnegie Science Center

One of four Carnegie Museums in the Pittsburgh area, the Carnegie Science Center provides entertainment and inspiration in a way that connects science and technology to our daily lives. We will have exclusive access to exhibits on 3 levels of the center!

Our meeting will be held at the historic Omni William Penn Hotel. Built in 1916, and recently renovated, it has been host to movie stars, politicians, heads of state and leaders in business and industry.

Make your hotel reservations before **June 23, 2017** and register online at www.ncwm.net/sems/event_detail/2017-annual-pa.



'16 - '17 NCWM Board of Directors

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California Division of Measurement Standards

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- Allow variations due to moisture loss
- Calculates SEL and Standard Deviation
- Dynamically calculates Rc/Rt for tare
- Calculates conversion factors for volume inspections
- Calculates Cost Error, Average Error, Average Cost Error % Error



Device Inspection

WinWam Device Inspection Software is designed to perform and record Handbook 44 inspections. WinWam Device Inspection Software supports all devices specified in Handbook 44 including but not limited to: scales, (apothecary, computing, livestock, shipping, vehicles, etc.) meters, LP Gas, LMD, linear devices, timing devices, etc. Whether acceptance or maintenance WinWam calculates tolerances for nearly all tests.

WinWam Device Inspection Software provides a comprehensive database of business establishments with a complete inventory of devices. Full detail inspection data allows management the ability to better measure economic impact of the W&M program.

Price Verification

WinWam Price Verification Software is designed in accordance with NIST Handbook 130. The Software runs standalone or with a handheld scanner. Software calculates error, lot cost error, net dollar error and calculates Over / Under Ratio. Accommodates Intentional Under-charge and Not On File.

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Working Around Stinging Insects

By Mike Sikula, New York

After a long cold winter, most weights and measures officials are preparing to take on testing better done in warmer weather (e.g. vehicle scales, dispensers at marinas, propane meters, animal scales, etc.). With these tests often comes the surprising and sometimes painful run-in with stinging insects such as bees and wasps. For years, I have heard inspectors tell me that bees must love petroleum because we seem to find them all the time near propane and gasoline tanks. So, as you make your plans to take on your outdoor duties please keep the following in mind:

- When it comes to bees, wasps and hornets the stinger is a modified egg-laying tube. So, if you get stung, it was a female.
- Each species has a different favorite nesting spot but, in general, be on the lookout for them under eaves, platforms, inside housings and junction boxes, in the ground near your work area or in any type of abandoned items (e.g. tires, crates, cars, etc.)
- Generally, most stings will result in a temporary injury, which includes pain, swelling, and redness around the sting. However, sometimes the effects can be more severe, even life-threatening, depending on where you are stung and what allergies you have. **BE CAREFUL!**
- In rare cases, a severe allergic reaction can occur. This situation is life threatening and can cause "anaphylaxis" or anaphylactic shock. In these instances, 911 must be called immediately!
- Before starting work at a site, look around; be wary of any insects flying in and out of a hole or location. Also, listen for any insect buzzing sounds.
- Power equipment such as motors and pumps can aggravate insects and cause them to swarm.
- Avoid wearing perfumes, colognes, scented soaps, or powders as they contain fragrances that can attract insects.
- If you encounter stinging insects at a job site, try to avoid swatting at them as this only aggravates them more. Do not try spraying them with insecticide as this may lead to a swarm attacking.
- Dealing with stinging insects is the responsibility of the device owner/manager. Calmly leave the area and report to them so they can take appropriate action. An exception to this would be if you have disturbed a nest and hear "wild" buzzing. In this case protect your face with your hands and run from the area immediately.
- Weights and measures inspectors work in a wide variety of areas and may encounter potential hazards on the job. The best defense is knowledge and a plan for how to handle situations when things go wrong.

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102nd NCWM Annual Meeting Details

July 16 - 20, 2017 | Pittsburgh, Pennsylvania



Meeting Location:

Omni William Penn Hotel
530 William Penn Place
Pittsburgh, PA 15219
1-800-THE-OMNI

Group Rate: \$129.00 + tax

Reservation Discount Deadline: June 23, 2017

Use the Group Code

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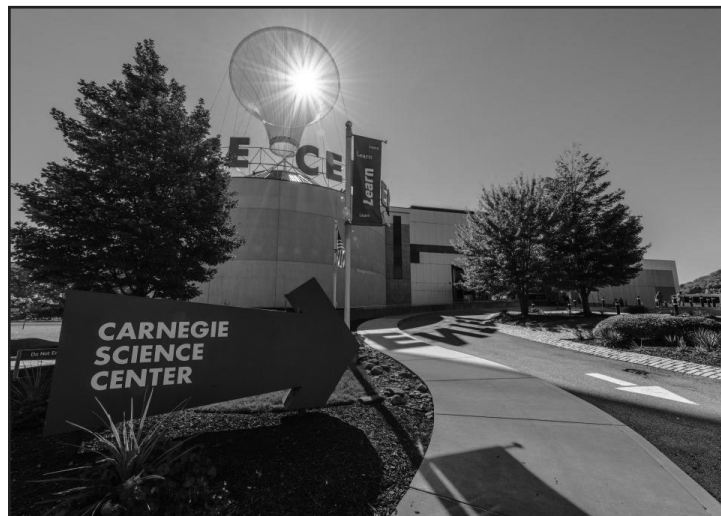
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- *Note: Discount code applies only to those registered for our meeting*

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Events:

Our Chairman's Reception will honor NCWM Chair Kristin Macey from the state of California. Please see the registration form on the next page for details.

The Special Event will be hosted at the Carnegie Science Center. Meet in the hotel lobby at 5:00 p.m. on Wednesday, July 19 to load buses. Please bring your ticket and name badge!

Be sure to submit your registration form by June 23 to secure discounted rates!

102nd Annual Meeting Registration Form**July 16-20, 2017 / Pittsburgh, Pennsylvania**

Please complete registration form legibly. Illegible forms may delay processing times. Submit form in one of the following ways:

E-mail: elisa.stritt@ncwm.net**Mail:** 1135 M Street, Suite 110 / Lincoln, NE 68508**P.** 402.434.4880**F.** 402.434.4878**ATTENDEE INFORMATION**

Select Registration Option:

☐ **NCWM Member**☐ **Non-Member**☐ **Retired Member:** A person with retired member status.☐ **Observer:** A first-time attendee; allows full participation in all sessions and discussions, but does not include voting privileges or special events.☐ **1 Day (Sunday):** Attendee will have meeting privileges on Sunday ONLY.☐ **1 Day (Tuesday):** Attendee will have meeting privileges on Tuesday ONLY.

Member ID #:

Name:

Name for Badge:

Organization / Jurisdiction:

Title:

Street Address:

City:

State:

Zip Code:

Country:

Phone Number:

Email Address (Required):

ATTENDEE'S GUEST INFORMATION

Name:

Name for Badge:

Note: a \$25.00 fee will be added to on site registrations

	Registration Fees Before (6/23/17)	Registration Fees After (6/23/17)	Chairman's Reception	Light Breakfast	Special Event
NCWM Member	\$400.00	\$450.00	included	included	included
Non-Member	\$475.00	\$525.00	included	included	included
Retired Member	\$0.00	\$0.00	included	included	\$60.00
Observer	\$200.00	\$250.00	\$35.00	included	\$60.00
Attend Sunday ONLY	\$100.00 (member) \$150.00 (non-member)	\$100.00 (member) \$150.00 (non-member)	included	N/A	N/A
Attend Tuesday ONLY	\$100.00 (member) \$150.00 (non-member)	\$100.00 (member) \$150.00 (non-member)	N/A	included	N/A
Guest	N/A	N/A	\$35.00	\$30.00 (4 day package)	\$0.00 under age 5 \$30.00 ages 6-13 \$60.00 ages 14+

SPECIAL EVENTS

	Will <u>Your Guest</u> Be Having the <u>Light Breakfast</u> : <input type="checkbox"/> Yes <input type="checkbox"/> No
Will <u>You</u> Be Attending the <u>Chairman's Reception</u> : <input type="checkbox"/> Yes <input type="checkbox"/> No	Will <u>Your Guest</u> Be Attending the <u>Chairman's Reception</u> : <input type="checkbox"/> Yes <input type="checkbox"/> No
Will <u>You</u> Be Attending the <u>Special Event</u> : <input type="checkbox"/> Yes <input type="checkbox"/> No	Will <u>Your Guest</u> Be Attending the <u>Special Event</u> : <input type="checkbox"/> Yes <input type="checkbox"/> No



National Conference on Weights and Measures

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

Event Calendar

Be sure to mark your calendar for all the upcoming NCWM, NIST and regional meetings.

May 2017

CWMA Annual Meeting

Lincoln, Nebraska
May 22 - 25

July 2017

102nd NCWM Annual Meeting

Pittsburgh, Pennsylvania
July 16 - 20

August 2017

NTEP Grain Analyzer Meeting

Kansas City, Missouri
August 16 - 17

NTEP Weighing Meeting

Houston, Texas
August 22 - 23

September 2017

WWMA Annual Meeting

Scottsdale, Arizona
September 24 - 28

October 2017

NTEP Measuring Meeting

Houston, Texas
October 3 - 4

SWMA Annual Meeting

North Little Rock, Arkansas
October 8 - 11

CWMA Interim Meeting

St. Charles, Missouri
October 16 - 18

January 2018

NCWM Interim Meeting

St. Pete Beach, Florida
January 21 - 24

*Further meeting details will be announced closer to the meeting dates at www.ncwm.net/meetings.