



# NCWM – NEWS

National Conference on Weights and Measures

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**Jim Truex** NTEP Administrator  
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**Elisa Stritt** Office Manager  
**Tyler Reeder** Project Coordinator

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## Chairman's Column

Kristin Macey, NCWM Chair — California Division of Measurement Standards



Dear NCWM Members,

Thank you to those who attended the 101<sup>st</sup> NCWM Annual Meeting in Denver, CO. It had all the elements of a great conference – a terrific venue, the atmosphere of being immersed in a group of people with shared passions, things to accomplish, things to learn, new individuals to meet, old friends to greet, and being re-energized upon leaving, full of fresh ideas to take back home. Many thanks to Elisa Stritt, NCWM's event planner extraordinaire, and the rest of the NCWM staff who made sure things ran smoothly during this year's meeting.

Did you notice the dozen or so employees from the Colorado Division of Oil and Public Safety at the conference? Their director Mahesh Albuquerque took advantage of the Observer registration fee for his employees at a steeply discounted rate for first-time conference attendees. Observers do not have voting privileges and the \$200 fee does not include attendance at special events, but this registration category affords a unique opportunity to people who might not otherwise get to witness the U.S. measurement standards development process. With better understanding, I'm sure these Colorado employees will find new purpose when doing their daily jobs using the NIST handbooks containing the NCWM standards.

people were able to attend thanks to a new NCWM policy that allows qualifying students to attend conferences for free. This is a great educational opportunity for students 7th grade through undergraduate level to see how professional meetings are conducted and the use of Robert's Rules of Order, observe the interaction between stakeholders at the open hearings, and learn about a variety of technical subjects. For some, it's the ultimate "bring your child to work" week to see what their parents do! For more information on NCWM meeting policies, visit [www.ncwm.net/about/policies/Meetings](http://www.ncwm.net/about/policies/Meetings).

The conference reports contain the final outcomes of agenda items, so I won't recount them all here. The biggest achievement this year was, at least to me, the final adoption of diesel gallon equivalent (DGE) units for the sale of natural gas. The new standard pairs with the gasoline gallon equivalent (GGE) that has been in place for compressed natural gas since 1994. With that done, NCWM must move on to other pressing issues. It is these issues that lead me to this year's theme, "Tradition and Technology: Finding the Right Balance."

An immediate critical need facing NCWM is the development of standards for transportation network measurement systems (TNMS) used by Transportation Network Companies such as Uber and Lyft. The problem is, TNMS don't fit neatly into the taximeter code in NIST Handbook 44. TNMS are strictly app based, enabled only through digital networks and GPS or location based services. There is no physical "device" per se; there are back end servers, cloud computing mathematics, and electronic receipts.

At this year's conference, two young

*Continued on page 2*

## Chairman's Column (cont.)

Together with NIST, I believe NCWM will find the right balance of regulation for these transportation services. We must, as soon as possible, define suitable standards as our society has already embraced this new type of technology.

The other "balancing" initiative this year is the Charter Team which was established last year under Jerry Buendel's leadership. The team, led by John Gaccione with help from Darrell Flocken, will continue its in-depth analysis of NCWM's business practices. There are many who have articulated that our standards setting process is too slow. The Charter Team has been charged to investigate and report on the key causes for this. I have confidence that the Team will identify the reasons for these delays and will recommend solutions. However, I have cautioned the Team against jumping towards decisions too soon. Unlike voluntary standards produced by other organizations, NCWM standards published in the NIST handbooks become law once adopted by individual states.

On a lighter note, another example of balancing technology and tradition was NCWM's attempt to roll out electronic voting at the 101<sup>st</sup> Annual Meeting. Suffice it to say things didn't go as planned, but NCWM staff was able to quickly revert back to manual vote counting and all ended well. We have full expectation that for the electronic voting system will work. Regulatory officials will get a practice session at the 2017 NCWM Interim Meeting in San Antonio.

As a former member of the Professional Development Committee, I am especially proud of that Committee's decision, with NCWM Board approval, to include basic exams for entry level inspectors and exams for use in licensing service agents. Jurisdictions and businesses need the ability to assess different phases of competency, and this new category of exams will allow individuals to demonstrate their knowledge at different stages in their careers.

*Continued on page 4*

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# Verified Conformity Assessment Program: Device Category Compliance Timelines Established

By Darrell Flocken, NTEP Specialist

At the 2016 NCWM Annual Meeting the NTEP Committee announced the compliance timelines for the remaining four device types, completing the list of devices identified in the VCAP Policy. These four device types are:

- Complete Scales
- Automatic Weighing System (AWS)
- Automatic Bulk Weighing Systems (ABWS)
- Belt-Conveyor Scale Systems (BCS)

The compliance timeline begins January 2017 for Complete Scales with the compliance timelines for the remaining device types added at a six-month interval beginning July 2017. The compliance timeline is defined as 18 months for device manufacturers and 24 months for holders of private label Certificate of Conformance. Additional timeline details can be found on the NCWM web site at:

<http://www.ncwm.net/ntep/conformity/vcap>.

## What weighing instruments are considered Complete Scales?

To get a better understanding of the types of weighing instruments that are included in the "Complete Scale" category it may be helpful to refresh ourselves on the focus area of the VCAP program. The program is designed to verify continued device performance, within published tolerance levels, when the device is subjected to influence factors from an external source. During the NTEP evaluation, the performance of the sample device was observed while changing the temperature in the operating environment and during changes in the supplied operating voltage. These influence factors are ones that cannot be duplicated during initial or subsequent field verification testing and therefore compliance verification must be performed at the manufacturer's level. If you are uncertain if your weighing instrument was subjected to influence testing, you only need to look at the Certificate of Conformance for that device. If the certificate mentions a temperature range and/or a specific voltage supply type, this weighing instrument is included in the VCAP device category.

When defining the boundaries of a Complete Scale, in respect to the VCAP program, you must also consider the scales capacity. Only scales with capacities of 2000 lb or less are included the VCAP program requirements.

The last thing to consider is NTEP's definition of a Complete Scale, while there is no definition of the exact combination of these two words; one needs only to look at the device marking requirements as shown in Handbook 44, Scales Code, Table S.6.3.a. to understand that a Complete Scale is defined as a *"Weighing, Load-receiving, and Indicating Element in the Same Housing or Covered on the Same CC"*.

Using these three considerations we can then get an idea of the weighing instruments that are considered Complete Scales. A list of these device type includes, but is not limited to, Computing, Non-computing, Point of Sale, Crane, Monorail, and Grain Test Scales.

## When is my next audit required to be completed?

This is the most frequent question I get when a new device type is added to the VCAP program. To answer this question, we must determine if the audit for a specific device type will be your first VCAP audit. If this is your first VCAP audit, you must have the audit successfully completed by the deadline identified in the published timeline for your device. If this is not your first audit you only have to have proof that you performed the required sample testing on all weighing instruments that fall into the new device type, during your next scheduled audit. For example; if your last audit was performed in August 2016, you are not required to have an audit for complete instrument by the June 2018 compliance date. However, when you are audited in August 2019 (based on the three-year audit cycle) you will be expected to show that all complete instruments traceable to active NTEP CC's were added to your list of device types and that sample testing was completed by the June 2018 compliance date.

Watch for future editions of the NCWM Newsletter for more information on the additional device types.

## New on the NCWM Website!

Any organization that maintains memberships with NCWM may request to post job opportunities within their organizations on the NCWM website at <http://www.ncwm.net/resource/employment-opportunities>. These listings are viewable by the general public.

If you wish to post employment opportunity information, please send inquiries to [don.onwiler@ncwm.net](mailto:don.onwiler@ncwm.net). Please include the following:

- The position title
- Either a link to a website describing the position and application process, or a document containing that information
- The closing date



## Chairman's Column (cont.)

This year the NCWM Promotional Tool Kit Committee will continue to expand its offering of statistics, promotional tools, and informational videos. This will enable weights and measures officials to generate support for their programs.

This fall a new video on fuel dispensers and fuel quality will be posted on the NCWM website. After that, the Toolkit Committee will begin work on videos about package inspections, LPG, and grain moisture meters. I have asked Steve Benjamin, Committee chair, to include a video to promote and simplify the understanding of metrology. This is because a) twice over in two separate state jurisdictions I have personally had to fight for metrology laboratory funding, and b) metrology is the heart and soul of weights and measures, and integral to everything we do.

Congratulations to Jimmy Cassidy (Cambridge, MA), new NCWM Chair-Elect and to Steve Giguere (Maine), who will serve as NEWMA Representative on the Board of Directors until 2019. Congratulations

also to the following people on their appointment to their respective committees: Josh Nelson (OR) to the Specifications and Tolerances Committee; Hal Prince (FL) and Michelle Wilson (AZ) to the Laws and Regulations Committee; Marco Mares (San Diego County, CA), Gene Robertson (MS), Lori Jacobson (SD), and Safety Liaison Julie Quinn (MN) to the Professional Development Committee.

I will visit with some of you at the Western and Southern regional association meetings this fall, and hope to see all of you at the NCWM Interim Meeting in San Antonio, TX, January 8 - 11, 2017. If you have suggestions, comments, and concerns, please let me know. I can be reached at [kristin.macey@cdfa.ca.gov](mailto:kristin.macey@cdfa.ca.gov).

Best to all,

*Kristin Macey*

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# NCWM Interim Meeting

January 8 - 10, 2017 / San Antonio, Texas



Photo courtesy of [www.visitsanantonio.com](http://www.visitsanantonio.com)

## ACCOMMODATIONS

The Hyatt Regency San Antonio  
123 Losoya Street  
San Antonio, TX 78205  
P. (888) 421-1442

**Reservation Deadline:** December 15

**Group Name:** 2017 NCWM Interim Meeting

**Register Online Today at:**

[www.ncwm.net/sems/event\\_detail/2017-interim-meeting](http://www.ncwm.net/sems/event_detail/2017-interim-meeting)

## Calling for Proposals!

Submit your proposals to amend the weights and measures standards by the listed regional deadlines.

Form 15 can be found at [www.ncwm.net/resource/forms](http://www.ncwm.net/resource/forms).

Follow the instructions on the form and indicate the regions where you are submitting the proposal.

Please submit to [don.onwiler@ncwm.net](mailto:don.onwiler@ncwm.net).

### WWMA

**Deadline:** August 26, 2016

### SWMA

**Deadline:** September 30, 2016

### CWMA

**Deadline:** September 16, 2016

### NEWMA

**Deadline:** October 10, 2016

## '16 - '17 NCWM Board of Directors

### CHAIRMAN

**Kristin Macey**

California Division of Measurement Standards

### CHAIR - ELECT

**James Cassidy**

Director / Sealer of Weights and Measures  
City of Cambridge, Massachusetts

### NTEP COMMITTEE CHAIR

**Jerry Buendel**

Program Manager  
Washington State Department of Agriculture

### TREASURER

**Raymond Johnson, Jr.**

New Mexico Department of Agriculture

### ACTIVE MEMBERSHIP - WESTERN

**Brett Gurney**

Utah State Department of Weights and Measures

### ACTIVE MEMBERSHIP - SOUTHERN

**Kenneth Ramsburg**

Maryland Department of Agriculture

### ACTIVE MEMBERSHIP - NORTHEASTERN

**Steve Giguere**

Maine Department of Agriculture

### ACTIVE MEMBERSHIP - CENTRAL

**Craig VanBuren**

Michigan Department of Agriculture and Rural Development

### AT-LARGE

**Chuck Corr**

Archer Daniels Midland Company

### AT-LARGE

**Julie Quinn**

Director  
Minnesota Department of Commerce

### ASSOCIATE MEMBERSHIP

**Christopher Guay**

Procter and Gamble, Co.

### NCWM EXECUTIVE DIRECTOR

**Don Onwiler**

National Conference on Weights and Measures

### NTEP ADMINISTRATOR

**Jim Truex**

National Conference on Weights and Measures

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**Carl Cotton**

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Measurement Canada

# One Tool: # 1 Inspection Software

## WinWam Software

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WinWam Software is a collection of four powerful modules, which can be purchased separately or together. All of the Weights & Measure modules have been built to perform inspections in accordance with NIST regulations.

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## Package Checking

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- Category A & B Sampling Plans
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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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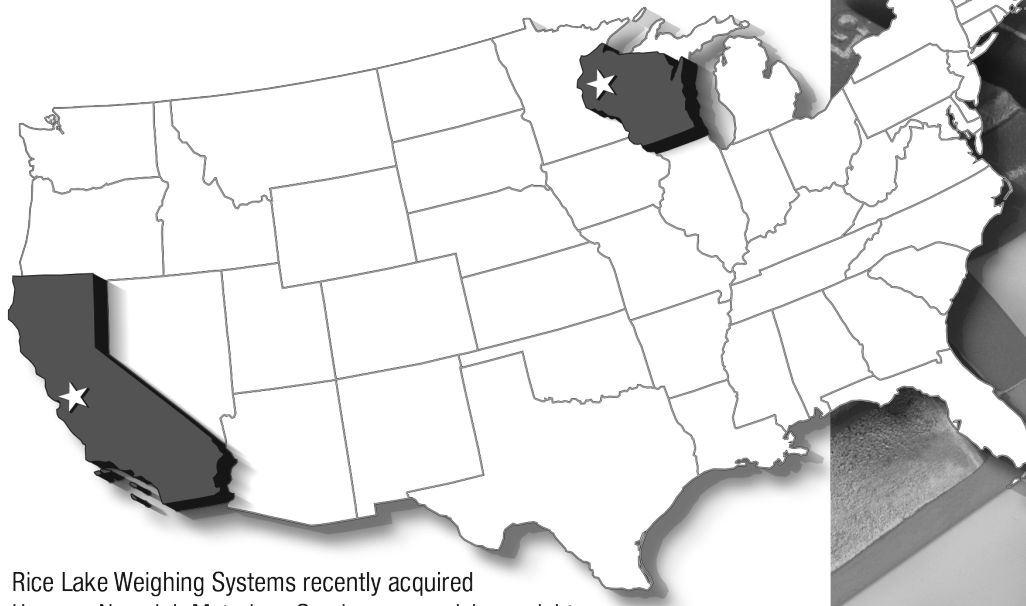
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# Rice Lake Weighing Systems Welcomes Heusser Neweigh to the Metrology Family



Rice Lake Weighing Systems recently acquired Heusser Neweigh Metrology Services, a precision weight calibration and metrology laboratory based in Concord, California. Heusser Neweigh is accredited to ISO/IEC 17025 by A2LA (American Association for Laboratory Accreditation) and specializes in a variety of metrology and calibration services including:

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## NCWM WELCOMES NEW MEMBERS (5/1/16 - 8/1/16)

### **A&D Engineering**

Markus Jansons

### **Alameda County Dept. of Weights & Measures**

Humberto Izquierdo

### **Albertsons**

Adam Hiatt

### **Athens County Auditor's Office**

Jeremy Tolson

### **Authentix**

Dave Munz

### **Bassman, Mitchell, Alfano & Leiter Chtd.**

Jeffrey Leiter

### **Bjornson Oil Company**

Matt Bjornson

### **Blum & Ray, LLC**

Michael Blum

### **Buckeye Scale, LLC**

Steven Smith

### **Bucks County Weights & Measures**

Thomas Rorvik

### **CA Dept. of Food and Ag.**

Toni Bulai

Tom Mendleski

### **Certified Scale Protection Company**

Denis Nelson

### **City of Boston**

Angel Nazario

### **Colorado Division of Oil and Public Safety**

Alberto Villagomez

### **CWPM**

Grier Bailey

### **DICKEY-john**

Mike Schackel

### **Dinatouch, Inc.**

Hank Tan

### **FL Dept. of Agriculture and Consumer Services**

Richard Kimsey

### **General Motors**

Stephen Kirby

### **Guangdon South China Sea Electronic Measuring Technology, Co., Ltd.**

Yuepeng Wu

### **ICM, Inc.**

Steven Vander Griend

### **K&K Management Solutions**

Karla Schilling

### **Kosan Crisplant**

Joachim Laursen

### **LPG & NH3 Supply, Inc.**

Scott McClelland

### **MD Dept. of Agriculture**

Roger Martin

### **MS Dept. of Agriculture and Commerce**

Charles Champagne

Michael Daley

Joshua Hinton

Jason Lancaster

Anthony McNeese

Coda Medlin

Ronnie Parker

### **Monterey County Ag. Commissioner's Office**

Glenn Sakasegawa

### **National Motor Freight Traffic Association**

Matthew Erim

### **Nebraska: FCSP - Weights & Measures**

Thomas Demuth

Kurt Wenninghoff

### **NM Dept. of Agriculture**

James Butterfield

Michael Scott Gutierrez

### **NMi Certin B.V.**

Kees Van Willenswaard

### **Oakland Corporation**

Daniel Oakland

### **Ocean County, NJ**

Vincent Giambona

### **OH Dept. of Agriculture**

Barry Stone

### **Orion Registrar, Inc.**

Frank Mitchel

### **POUL TARP AS**

Klaus Engelbreth

### **Qwash, Inc.**

Harlan Anderson

### **Right Weigh, Inc.**

Thomas Arm

### **Rush Business Solutions, LLC**

Philip Rush

### **San Diego County Dept. of Agriculture/W&M**

Jonathan Garcia

Margaret Maloney

### **Scaleit USA**

Jason Ford

### **SICK, Inc.**

Sameer Parmar

### **SD Weights & Measures**

Brenda Sharkey

### **Southwest Research**

Robert Legg

### **Stanislaus County Ag. Commissioner**

Deana Guerrero

### **Stephens Mfg., Co.**

Johnny Chapman

Robert Lankford

### **Summit County Weights & Measures**

Kenneth Knodel

### **Sutter County Weights & Measures**

Nicolas Oliver

### **The Kroger Co.**

Jeff Edelen

### **Toshiba Global Commerce Solutions**

Kellie Francis

### **Town of Wilbraham**

Susan Petzold

### **Virginia Retail Merchants Association**

Petrina Jones

### **Wal-Mart Stores, Inc.**

Janet Goeking

### **Wal-Mart/Sam's Club**

Roy Garcia

### **Wisconsin DATCP**

Joel Kohlman

NCWM thanks you all for getting involved and making a difference in the field of weights and measures!

# 101<sup>st</sup> NCWM Annual Meeting:

## Award Recipients

**The NCWM Distinguished Service Award** recognizes members who have made a long-term commitment of service and leadership to the NCWM. Recipients have made significant contributions to the enhancement of the organization as a whole through committee service, important contributions to standards development, served as a resource for knowledge and advanced the vision and mission of NCWM.

The 2016 recipients were:

**MARK COYNE** - Brockton, Massachusetts

**CAROL HOCKERT** - NIST, Office of Weights & Measures

### **Committee Service Award**

Raymond Johnson (Board of Directors)  
Steve Giguere (Board of Directors)  
Christopher Guay (Board of Directors)  
Rich Lewis (L&R)  
Angela Godwin (PDC)  
Mahesh Albuquerque (S&T)

### **NCWM Chairman Award**

Jerry Buendel

### **NTEP Chairman Award**

Ronald Hayes

### **Presiding Officers**

Tim Chesser  
Steve Harrington  
Laurence Nolan  
Jack Walsh

### **Chaplain**

Constantine Cotsoradis

### **Parliamentarian**

Lou Straub

### **Sergeant-at-Arms**

Rich Holcomb  
Alberto Villagomez  
Scott Wagner

### **Associate Membership Committee**

Chair – Bill Callaway  
Vice-Chair – Richard Shipman  
Secretary/Treasurer – David Calix

### **Nominating Committee**

Chair – Ronald Hayes  
Stephen Benjamin

Charles Carroll  
Kurt Floren  
John Gaccione  
Joe Gomez  
Randy Jennings

### **Credentials Committee**

Chair – Fran Elson-Houston  
Philip Wright  
Matt Maiten  
Darrell Flocken

### **Attendance Award - 5 years**

Sprague Ackley  
Holly Alfano  
Ann Boeckman  
Bill Callaway  
Matthew Curran  
Mark Flint  
Frank Greene  
Steven Harrington  
John Hughes  
Doug Killingsworth  
Tom Palace  
Lance Robertson  
Kevin Upschulte  
Jane Zulkiewicz

### **Attendance Award - 10 years**

Tim Chesser  
Dave Rajala

### **Attendance Award - 15 years**

Loretta Carey  
Constantine Cotsoradis  
Paul Lewis

### **Attendance Award - 20 years**

Rodney Cooper

### **Attendance Award - 25 years**

Tina Butcher  
Christopher Guay

### **Attendance Award - 35 years**

Charles Carroll

Congratulations to all  
**2016 NCWM Award Recipients**  
and thank you on behalf of the  
National Conference on Weights and  
Measures membership.

# Voting Record for the 101<sup>st</sup> NCWM Annual Meeting

July 24 - 28, 2016 | Denver, Colorado

Item	House of State Representatives	House of Delegates	Result
Board of Directors			
120-4	Voice Vote		Adopted
120-5	Yea: 51 Nay: 22		Adopted
To Accept the Report	Voice Vote		Adopted
Laws & Regulations Committee			
Consent Calendar: 231-1, 232-2, 232-4, 232-5, 260-2, 260-3, 260-5	Yea: 37 Nay: 0	Yea: 48 Nay: 0	Adopted
232-6	Yea: 26 Nay: 11	Yea: 20 Nay: 21	Returned to Committee
232-7	Yea: 36 Nay: 1	Yea: 43 Nay: 0	Adopted
*232-8	Yea: 30 Nay: 7	Yea: 30 Nay:11	Adopted
237-1	Yea: 37 Nay: 1	Yea: 34 Nay 3	Adopted
237-2	Yea: 39 Nay: 0	Yea: 48 Nay: 0	Adopted
237-6	Yea: 16 Nay: 16	Yea: 34 Nay: 8	Returned to Committee
260-1 To hear the amendment	Yea: 36 Nay: 0	Yea: 30 Nay: 1	Amendment was heard
260-1 To amend	No Vote		Moved by Committee to Informational Status
To accept the Report	Voice Vote		Adopted
Specifications & Tolerances Committee			
Consent Calendar: 310-1, 310-2, 320-2, 320-3, 330-1, 330-3, 331-1, 331-2, 331-4, 332-1, 332-2, 332-3, 332-4, 332-7, 334-1, 335-1, 337-1, 338-1, 338-2, 339-1, 354-2, 354-3, 354-4, 358-1, 358-2, 358-3, 360-4	Yea: 38 Nay: 0	Yea: 45 Nay: 0	Adopted
330-2	Yea: 36 Nay: 3	Yea: 39 Nay: 10	Adopted
*337-2	Yea: 30 Nay: 7	Yea: 30 Nay: 11	Adopted
339-2	Yea: 29 Nay: 7	Yea: 40 Nay: 6	Adopted
354-1	Yea: 35 Nay: 1	Yea: 49 Nay: 0	Adopted
To Accept the Report	Voice Vote		Adopted

\* Items 232-8 and 337-2 were voted upon as a block.



# Safety in Standard Operating Procedures

By Brett Gurney, Utah Department of Agriculture and Food, Weights and Measures Program

At approximately 3:00 am, a fire alarm goes off in a hotel. Some guests quickly grab items they need, follow standard evacuation procedures and exit down the stairs. Others sleep through the alarm, while others choose to ignore the fire alarm and stay in the comfort of their bed hoping the alarm will subside. Some may unknowingly exit the building improperly. Some may evacuate the building following an unsafe procedure by taking short cuts by going down the elevator.

This event actually occurred at a Weights and Measures Conference and brings to mind some questions.

Do we have standard operating procedures (SOP) to follow for emergencies during weights and measures inspections? Do we have standard operating procedures that will reduce the risk of injury for our daily inspection routine?

What is a standard operating procedure? A Standard Operating Procedure is defined by Wikipedia as:

*"a set of step-by-step instructions created by a business to help workers carry out routine operations. Their purpose is to achieve efficiency, quality output and uniformity of performance, while reducing miscommunication and failure to comply to industry regulations."* [https://en.wikipedia.org/wiki/Standard\\_operating\\_procedure](https://en.wikipedia.org/wiki/Standard_operating_procedure)

Recently, our Utah Weights and Measures Program was tasked with developing and implementing standard operating procedures. A meeting was held and procedures were developed. It became evident that standard operating procedures are important in all aspects of our weights and measures program. It was also acknowledged that safety guidelines need to be a part of our procedures.

We may need to review our own standard operating procedures and look to see if safety is included. Are we doing it the safest way? If not, we should take the necessary time to implement safe practices during inspections. We may need to begin by selecting one area to improve upon. Once completed, choose another, then another and so on.

Other questions that come to mind include:

- When do I need an SOP?
- How often should an SOP be written?
- Do I write an SOP that includes safety procedures?
- Is it necessary for safety to be included in all SOP's?

- Are we following the safety guidelines outlined in our SOP?
- Is the SOP a recommendation or does your jurisdiction require it?
- Are we in a hurry or too busy to follow the SOP?
- Are we letting our guard down?

Take the time necessary to review SOP's and make changes when needed. Don't get too busy to take the required time for proper review. Meet with inspectors and verify they understand the procedures. Make sure safety equipment is available. Keep SOP's current with current policy and practices. SOP's should be current and updated to reflect changing process and procedures.

Does the inspector take time to follow the procedure? Does the inspector feel that there is not enough time to do the job safely?

Other questions to ponder include:

- Should I jeopardize my safety by not following safety guidelines identified in an SOP that may cause injury?
- Would my ability to be employed be compromised if my leg, ears, fingers, etc. were injured?
- Do I take the necessary steps and keep myself safe by following a written SOP?
- Do I understand the dangers/hazards in my job?
- Am I aware of possible hazards such as; open exposed electrical wires, dangerous insects/animals hiding where I inspect?
- Am I putting myself at risk when performing every day duties? Is my equipment safely bonded/grounded?
- Am I following safety precautions?

We must always have a high level of detailed thinking. Think about what you're doing while you're doing it. Keep your mind focused on what you're doing while performing the job so you don't skip an important step that may jeopardize your safety or the public's.

Although everyone may want to do the right thing safely, everyone's version of the right thing is likely to be different. If SOP's are not followed there will be inconsistency.

Everyone needs to know the procedures. Procedures must be accurate, understandable to everyone, and revised periodically to reflect current conditions. Having accurate and detailed safety instructions ensures that every person follows the procedures the same way each time. The need for implementing safety in standard operating procedures is essential.



# NTEP Certified



## Liquid Controls Positive Displacement Meters, LCMass Coriolis Mass Meters, and Sponsler Turbine Meters

The employees of Liquid Controls (LC) would like to recognize the service provided by the members of the National Conference on Weights and Measures (NCWM). Since we sold our first flowmeter to the United States Air Force in 1956, Liquid Controls has enjoyed considerable success, evolving into a stable, profitable company relied on by both employees and customers. In our 50 plus years of business, we have employed thousands of skilled workers who have crafted millions of quality products that continue to accurately measure liquids for businesses all around the world. Liquid Controls' success would have been impossible without the NCWM. By holding LC and all manufacturers accountable, the NCWM plays an indispensable role in sustaining a healthy, competitive marketplace where hard work and craftsmanship are rewarded. The employees at Liquid Controls are proud of, and comforted by, the vital role that the NCWM plays in our industry, and we applaud the proficiency of those at the NCWM who take on that role.

### SPONSLER TURBINE METERS

½ to 4"  
1½ to 1,200 GPM  
Solvents, gasoline,  
diesel, fuel oil, ethanol,  
LPG, and DEF

NTEP CC 04-097



### LCMASS CORIOLIS MASS METERS

1-1/2" to 4"  
Water, alcohols,  
solvents, gasoline,  
diesel, LPG, NH3,  
and DEF

NTEP CC 16-061



### LIQUID CONTROLS POSITIVE DISPLACEMENT METERS

1½ to 8"  
6 to 1,200 GPM  
Refined fuels, aviation,  
LPG, ethanol, and general  
solvents

NTEP CC 99-141



For more information, contact Liquid Controls | 105 Albrecht Dr. | Lake Bluff, IL 60044 | T: 800.452.5262 | F: 847.295.1057 | [www.lcmeter.com](http://www.lcmeter.com)





# 2017 NCWM Interim Meeting Registration Form

January 8-11, 2017 / San Antonio, Texas

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 who has retired member status.

☐ **Observer:** A first-time attendee; allows full participation in all sessions and discussions, but does not include the Chairman's Reception.

☐ **1 Day (Sunday):** Attendee will have meeting privileges on Sunday 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:
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Note: a \$25.00 fee will be added to on site registrations

	Registration Fees Before (12/15/16)	Registration Fees After (12/15/16)	Chairman's Reception	Light Breakfast
<b>NCWM Member</b>	\$225.00	\$275.00	included	included
<b>Non-Member</b>	\$300.00	\$350.00	included	included
<b>Retired Member</b>	\$0.00	\$0.00	included	included
<b>Observer</b>	\$100.00	\$150.00	\$35.00	included
<b>Attend Sunday ONLY</b>	\$100.00	\$150.00	included	N/A
<b>Guest</b>	N/A	N/A	\$35.00	\$30.00 (4 day package)

## SPECIAL EVENTS

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 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

No verbatim recordings using a device such as, but not limited to, an audio or video recorder, stenotype, or stenographer are permitted. Written reports will serve as the official record for meetings.

**Register Online At:**

[www.ncwm.net/sems/event\\_detail/2017-interim-meeting](http://www.ncwm.net/sems/event_detail/2017-interim-meeting)



Looking Ahead...

# 102<sup>nd</sup> NCWM Annual Meeting

July 16 - 20, 2017 / Pittsburgh, Pennsylvania



Photo courtesy of VisitPITTSBURGH

Visit [www.ncwm.net/sems/event\\_detail/2017-annual-pa](http://www.ncwm.net/sems/event_detail/2017-annual-pa) for further details!

## Submit 2017 Special Award Nominations Today!

Throughout the long and rich history of NCWM, many people generously contributed their time and talents to our mission. These individuals hail from state, local and federal government, as well as private industry. They have provided leadership, insight, expertise, training, and much more for the sake of equity in the market place. Three special awards have been established so that NCWM's membership can properly thank such professionals.

**Nominations must be submitted by December 31 of each calendar year.**

**Note:** Officers serving on the Board of Directors and NCWM employees are not eligible to receive awards while serving in those positions.

The award categories are **Lifetime Achievement**, **Distinguished Service**, and **Contributions**.

Visit [www.ncwm.net/meetings/annual/awards](http://www.ncwm.net/meetings/annual/awards) for further details!



## National Conference on Weights and Measures

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

# Event Calendar

## August 2016

### NTEP Weighing Sector Meeting

Denver, Colorado  
August 23 - 24

## September 2016

### WWMA Annual Meeting

Honolulu, Hawaii  
September 11 - 15

### NTEP Grain Analyzer Sector Meeting

Kansas City, Missouri  
September 13 - 14

### NTEP Software Sector Meeting (Joint Meeting)

Kansas City, Missouri  
September 14

### NTEP Measuring Sector Meeting

Denver, Colorado  
September 20 - 21

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

## October 2016

### CWMA Interim Meeting

St. Charles, Missouri  
October 3 - 5

### SWMA Annual Meeting

Arlington, Texas  
October 16 - 19

### NEWMA Interim Meeting

Portsmouth, New Hampshire  
October 25 - 26

## January 2017

### 2017 NCWM Interim Meeting

San Antonio, Texas  
January 8 - 11

## May 2017

### NEWMA Annual Meeting

Saratoga Springs, New York  
May 15 - 18

### CWMA Annual Meeting

Lincoln, Nebraska  
May 22 - 25

\*Further meeting details will be announced closer to the meeting dates at [www.ncwm.net/meetings](http://www.ncwm.net/meetings).