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Chairman's Column

Brett Gurney, NCWM Chairman — State of Utah



Dear NCWM Members,

Our meeting in Tulsa, Oklahoma has come and gone. If you were able to attend, there were great opportunities to experience first-hand how standards are developed. The opportunities to obtain information regarding the many topics and discussions were invaluable.

Thank you to our NCWM employees. They do such a great job! Thank you to our host: the State of Oklahoma. Thank you to members who are serving on our standing committees, subcommittees, task groups, NIST, and to anyone else who is serving in some capacity. We appreciate the working relationship and technical advice we receive from the NIST, Office of Weights and Measures.

Thank you to all of our NCWM members and attendees who made the meeting successful. We cannot do it without you. Your participation and involvement help make the conference a success. I encourage you to get involved in any way you

can. NCWM experiences success from the ideas, comments and work from those who participate. We need input from everyone. Thank you for your support and entrusting me as the next NCWM Chairman.

I appreciate and thank Carl Cotton, Lance Robertson, and Luciano Burtini of Measurement Canada for their continued support and expertise. It was a great pleasure to meet Bala Panti of Nigeria, and Ronny Cornelis and Robert Peterson of Curaçao. We welcome them and hope they will continue to participate in our conference.

I would like to congratulate our new officers and members of the Board of Directors:

Chair-Elect

Craig VanBuren (MI)

SWMA Representative

Hal Prince (FL)

NEWMA Representative

Jack Walsh (Town of Wellesley, MA)

CWMA Representative

Ivan Hankins (IA)

At-Large

Rebecca Richardson (MARC-IV Consulting)

Continued on page 2

I appreciate the words from Under Secretary of Commerce for Standards and Technology and NIST Director, Dr. Walter G. Copan, who gave the NCWM Honorary President's address. He stated, "The founders of our nation realized how essential it was to have a trusted system of weights and measurements. This would ensure that our country could flourish, and that commerce would be fair." He reminded us that George Washington, in his first State of the Union Address in 1790, said "Uniformity in the currency, weights, and measures of the United States is an object of great importance, and will, I am persuaded, be duly attended to".

Weights and measures has been an important aspect of consumer/business relationships for centuries. In the early days of our country's history a need for weighing and measuring standardization was recognized. Standards were developed.

The theme I selected for this year is **"Valued Traditions & New Innovations - Confidence in Every Transaction"**. A focus of Weights and Measures is to assure consumers get what they paid for and that businesses get paid for goods and services they sell. Weights and measures will need to continue to develop and improve standards to foster fair competition and assure that a fair marketplace is in place for all parties.

Our nation's citizens and businesses depend on us. The way we purchase items and the way we measure continue to improve. We must continue to be proactive. The future is bright with new technology, weights and measures will need to be part of this future. We must remember valued traditions are important, and keeping up with technology, new innovations, and maintaining confidence in the marketplace is essential.

I know I am not telling you anything new. When you think about it, weights and measures have a huge impact on commerce. Small weighing and measuring errors can translate into millions of dollars which would be detrimental to the marketplace. Businesses and consumers need confidence in the marketplace. They depend on an "even playing field" and that all weights and measures are correct and accurate.

We need the support from those who make important decisions about our jurisdictions. Resources are

needed to ensure weights and measures are fair and equitable in the marketplace. Inspectors, equipment, administrative staff, experience and knowledge are but a few of the elements needed for a successful jurisdiction.

I wish every NCWM member had the opportunity to attend a National Conference on Weights and Measures meeting. Realizing that is not possible, I am interested in ways to improve our outreach.

A goal of mine is to continue the outreach to the jurisdictions who are not taking the opportunity to frequently participate in NCWM. How can we help you? A task group has been formed to find ways to reach out to jurisdictions. NCWM will gain much by your involvement. Likewise, each jurisdiction can gain much from being involved. Think of the benefits we each can achieve. The education and input we receive by participating, attending open hearings, technical sessions and the never ending networking opportunities are important. Sharing and keeping up with current topics and taking what you learn to your own jurisdiction is a great start. You and your organization are missing out if you are not participating.

NCWM's Strategic Plan calls for expanding the role of NCWM as a source of support for state and local weights and measures programs. Beginning in 2018, the NCWM will conduct a biennial survey regarding fuels, lubricants and automotive products to assist weights and measures program administrators.

NCWM Professional Certification continues to move forward. Beginning September 1, NCWM is offering new online Basic Competency Exams and will implement mandatory exam proctoring for these exams and the Professional Certification Program Exams. Integrity of these exams must be safeguarded.

The Charter Team continues to examine how we can improve our process. The Safety Awareness Subcommittee has made great strides. I look forward to seeing the future progress of our Cannabis, Credit Card Skimmer and Professional Tool Kit task groups.

A Point of Sale System (POS) - Tare Task Group is being formed with a goal of determining how to provide consumers and operators necessary information,

whether on a receipt or displayed on the POS system itself, to verify if charges for items weighed at checkout are based on net weight. This is similar to the opportunity provided to them by retail computing scales used in direct sale applications. The task group will meet as needed between now and the NCWM Interim Meeting where it will give a report on its progress.

I appreciate the work of the NTEP EVSE and Multiple Dimension Measuring Device work groups, FALS and PALS subcommittees and others.

I congratulate and have appointed the following people to serve in their respective committees. I am proud of their willingness to serve.

Specifications and Tolerances Committee

Loren Minnich (KS) - 1 year term

Jason Glass (KY) - 5 year term

Laws and Regulations Committee

Doug Rathbun (IL) - 5 year term

Associate Member - Prentiss Searles (American Petroleum Institute) - 5 year term

Professional Development Committee

Scott Ferguson (MI) - 5 year term

Associate Member - James Pettinato (FMC Technologies Measurement Solutions, Inc.) - 5 year term

Nominating Committee - 1 year terms

Chair - James Cassidy (City of Cambridge, MA)

Stephen Benjamin (NC)

Mark Coyne (Town of Sharon, MA)

Ronald Hayes (MO)

Tim Lloyd (MT)

Kristin Macey (CA)

Kenneth Ramsburg (MD)

Credentials Committee

Stuart Strnad (TX) - 3 year term

Presiding Officers - 1 year terms

Doug Musick (KS)

Jane Zulkiewicz (Town of Barnstable, MA)

Tim Chesser (AR)

Kevin Schnepp (CA)

Chaplain - 1 year term

Constantine Cotsoradis (Flint Hills Resources)

Parliamentarian - 1 year term

Louis Straub (Fairbanks Scales, Inc.)

Sergeant-at-Arms - 1 year term

Jacques Daniel (WI)

Greg Loreck (WI)

I look forward to seeing you at your regional meetings and be sure to mark your calendar for our 2019 NCWM Interim Meeting in Charleston, South Carolina from January 13-16.

Let's work together to accomplish our goals. NCWM needs your input and participation. Let stakeholders know how important it is for them to participate in our process. Let me know what our great organization can do to help you! Please share your ideas, concerns and questions. I can be reached at bgurney@utah.gov.

Thank you,



Brett Gurney, NCWM Chairman

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.

NTEP Column

“Weighing Device Terms, Abbreviations and Definitions”

Jim Truex, NTEP Administrator



NTEP receives inquiries pertaining to the terminology and proper interpretation of information found on NTEP Certificates of Conformance. We are sharing some of the common terms, abbreviations and definitions found on certificates for weighing devices. It is recommended you familiarize yourself with this information. The definitions listed are all referenced from *NIST Handbook 44*.

concentrated load capacity (CLC) –

Also referred to as Dual Tandem Axle Capacity (DTAC), it is the capacity rating of a vehicle or axle-load scale, specified by the manufacturer, defining the maximum load applied by a group of two axles with a centerline spaced four feet apart and an axle width of eight feet for which the weighbridge is designed. The concentrated load capacity rating is for both test and use.

d, value scale division –

See “scale division, value of (d)”

e, value of verification scale division –

See “verification scale division, value of (e)”

verification scale division, value of (e) –

A value, expressed in units of weight (mass) and specified by the manufacturer of a device, by which the tolerance values and the accuracy class applicable to the device are determined. The verification scale division is applied to all scales, in particular to ungraduated devices since they have no graduations. The verification scale division (e) may be different from the displayed scale division (d) for certain other devices used for weight classifying or weighing in pre determined amounts, and certain other Class I and II scales.

e_{\min} (minimum verification scale division) –

The smallest scale division for which a weighing element complies with the applicable requirements.

Load cell certified for multiple cell use, multiple cell application load cell –

A load cell intended for use in a weighing system which incorporates more than one load cell. A multiple cell application load cell is designated with the letter “M” or the term “Multiple”.

Note: If a load cell is marked for multiple cell applications (M), it cannot be used in single cell applications. [NCWM Publication 14 Technical Policy]

N –

The number of sections in a scale, when using CLC formula.

n, number of scale divisions scale division, number of (n) –

Quotient of the capacity divided by the value of the verification scale division. $n = \text{Capacity} / e$

n_{\max} (maximum number of scale divisions) –

The maximum number of scale divisions for which a main element or load cell complies with the applicable requirements. The maximum number of scale divisions permitted for an installation is limited to the lowest n_{\max} marked on the scale indicating element, weighing element, or load cell.

scale multiple, multiple of a scale –

In general, the multiplying power of the entire system of levers or other basic weighing elements. (On a beam scale, the multiple of the scale is the number of pounds on the load receiving element that will be counterpoised by one pound applied to the tip pivot of the weighbeam).

v_{\min} (minimum load cell verification interval) –

The smallest load cell verification interval, expressed in units of mass* into which the load cell measuring range can be divided.

If you have additional questions or would like to discuss the content of this article, contact Jim Truex at jim.truex@ncwm.net.

Voting Record of the 103rd NCWM Annual Meeting

July 15 - 19, 2018 | Tulsa, Oklahoma

Item	House of State Representatives	House of Delegates	Result
Board of Directors			
To Accept the Report	Voice Vote		Adopted
Laws & Regulations Committee			
Consent Calendar: PAL-1, PAL-2, NET-1, MOS-4, MOS-10, FLR-5, NET-5	Yea: 40 Nay: 0	Yea: 55 Nay: 1	Adopted
MOS-7	Yea: 25 Nay: 14	Yea: 36 Nay: 16	Returned to Committee
MOS-8	Yea: 40 Nay: 0	Yea: 54 Nay: 2	Adopted
FLR-9	Yea: 39 Nay: 1	Yea: 48 Nay: 8	Adopted
Specifications & Tolerances Committee			
Consent Calendar: LPG-1, CLM-3, WTR-2, CDL-3, TXI-1	Yea: 41 Nay: 0	Yea: 56 Nay: 0	Adopted
SCL-6	Yea: 34 Nay: 6	Yea: 50 Nay: 6	Adopted
ABW-4	Yea: 28 Nay: 12	Yea: 39 Nay: 13	Adopted
LMD-2	Yea: 38 Nay: 2	Yea: 49 Nay: 6	Adopted
VTM-1	Yea: 41 Nay: 0	Yea: 54 Nay: 1	Adopted
To Accept the Report	Voice Vote		Adopted
Professional Development Committee			
To Accept the Report	Voice Vote		Adopted
National Type Evaluation Committee			
To Accept the Report	Voice Vote		Adopted
Nominating Committee			
To Elect the Slate of Officers as presented in the Report	Voice Vote		Adopted

2018 NCWM Lifetime Achievement Award

This year's **NCWM Lifetime Achievement Award** recipient was Aves Thompson from the State of Alaska.

Thompson represented the State of Alaska at NCWM meetings for two decades. During that time, he served our organization in many ways, including the Resolutions Committee, Liaison Committee which he chaired in 1992, the NIST Handbook 133 Working Group in 1996 and 97, the Executive Committee prior to incorporation, and Board of Directors following incorporation, NCWM Chairman in 1999 and NTEP Committee Chairman in 2000.

Aves was Chairman of the Working Group on Development of the NCWM Business Plan in 1997 and 98. This was a very challenging time for NCWM, but he was a visionary who sought to strengthen the Conference. He helped oversee the incorporation of NCWM as a not-for-profit and the selection of an association management company to handle the daily business, meeting planning and membership services of NCWM. During the ten-year term of that management contract, NCWM grew into the successful, independent, self-managed organization that it is today.

Through those transforming years, it was also necessary to build a newly defined relationship with the NIST Office of Weights and Measures; a relationship that would experience changes in roles and responsibilities and experience some growing pains along the way. That effort has been successful, thanks in large part to the Memorandum of Understanding that he helped forge between NIST and NCWM in 1997.

Almost immediately after the organization's incorporation, he was involved in NCWM's next challenge of assuming full management and administration of the National Type Evaluation Program. This involved hiring a NTEP Administrator, reissuing all active NTEP Certificates and educating the management staff on what the program is and what it would take to manage it. As our NTEP Committee Chairman, he facilitated the resolution of a challenge to a NTEP Certificate of Conformance. This demonstrated that NCWM was firmly grounded and positioned to handle the responsibilities that came with administering NTEP.

There are some additional notes from his service record. He made the first appointment of an associate member to a standing committee. He represented NCWM at the Asian-Pacific Legal Metrology Forum in Indonesia and at an OIML meeting in Paris. He also was part of a strategic planning session in Ottawa on reciprocity in type evaluation between NCWM and Measurement Canada.

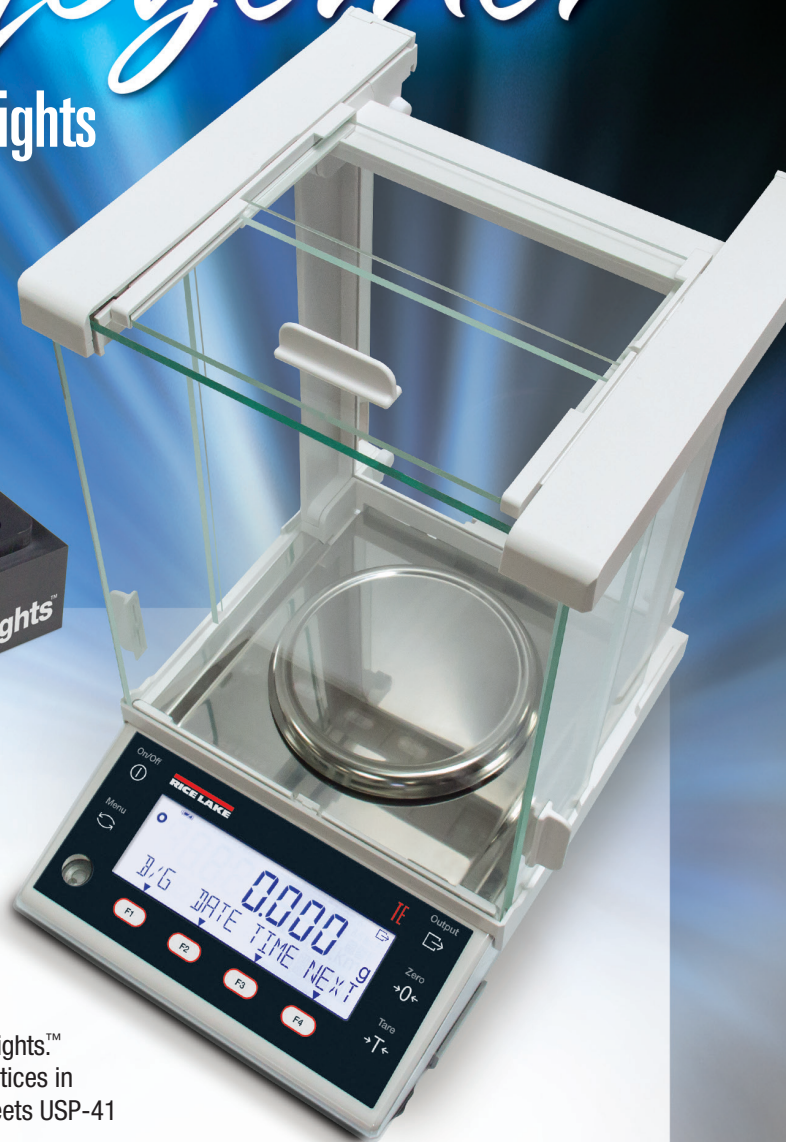
He left public service in 2005, to be Executive Director of the Alaska Trucking Association where he continues to work today. But it is for his friendship, his elegant style of leadership and his vision that positioned NCWM for the 21st century that he has been recognized with NCWM's most prestigious award.

We congratulate **Mr. Aves Thompson** as the 2018 NCWM Lifetime Achievement Award recipient.



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103rd NCWM Annual Meeting

Additional Award Recipients

OUTSTANDING CONTRIBUTIONS AWARD

Recognizes members who have made notable contributions to NCWM standards, policy, administrative support or other services deemed worthy of recognition. Recipients have been NCWM members for at least five years.

The 2018 recipients were:

Marilyn Herman, Herman and Associates
Randy Jennings, Tennessee

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 2018 recipients were:

Stephen Benjamin, North Carolina
Jerry Buendel, Washington
Georgia Harris, NIST OWM
Paul Lewis (Ret.), Rice Lake Weighing Systems

COMMITTEE SERVICE AWARDS

Board of Directors – Chuck Corr
Board of Directors – Kenneth Ramsburg
L&R Committee – John Albert
L&R Committee – Rebecca Richardson
PD Committee – Lori Jacobson
PD Committee – Richard Shipman
S&T Committee – Tim Chesser

NCWM CHAIRMAN AWARD

James Cassidy

NTEP CHAIRMAN AWARD

Kristin Macey

SPECIAL RECOGNITION AWARDS

Presiding Officers

Tim Chesser
Kevin Merritt
Loren Minnich
Jack Walsh

Chaplain

Constantine Cotsoradis

Parliamentarian

Lou Straub

Sergeant-at-Arms

Mike Bookout
Scott Novak
Jarrod Sanders

Nominating Committee

Stephen Benjamin
Mark Coyne
Frank Greene
Ivan Hankins
Richard Lewis
Chair – Kristin Macey

Credentials Committee

Chair – Lori Jacobson

Associate Membership Committee

Secretary/Treasurer – Bob Wiese
Vice-Chair – Mark Flint
Chair – Bill Callaway

ANNUAL ATTENDANCE AWARDS

5 years

Ruben Arroyo
Ronny Cornelis
Scott Ferguson
Ron Gibson
Ronald Johnson
Michael Lynch
John McGuire
Doug Musick
Tyler Reeder
Gene Robertson
Scott Simmons
Roberta Willhite
Michelle Wilson
Elaine Vieira
Russ Vires

10 years

Rex Brown
David Calix
Ivan Hankins
Ryenne Hartman
William Hornbach

Russ Lewis
Kristin Moore
Rebecca Richardson
Tim White

15 years

Raymond Johnson
Jack Walsh

20 years

Stacy Carlsen

25 years

Marilyn Herman
Neil Nover

40 years

Ross Andersen

*Congratulations to all
2018 NCWM Award Recipients!*



Massload Technologies is upgrading manufacturing equipment and the following items are being offered for sale.

- Deadload Tester, 5-step lever style, applied weights (lbs) 2,400; 3,600; 13,000; 29,000; 51,000; 72,000
- Two gas-fired Lucifer Box Furnace S7000 with PLC controller (for heat treating austenizing/tempering)
- Marquench oil tank with pump and cooler



For more details contact:

Larry van den Berghe, President & CEO
larry@massload.com

2019 NCWM Interim Meeting

January 13 - 16 | Charleston, South Carolina

The Interim Meeting is the time of our year where proposals are brought forth for discussion. At this meeting, stakeholders will discuss important proposals to amend the United States standards for weights and measures. When open hearings are finished, committees will deliberate and report the status of each item.

Our committees have their work cut out for them with some very full and diverse agendas. Committee agendas are available at:

www.ncwm.net/meetings/interim/publication-15

Meeting Location

Francis Marion Hotel
387 King Street
Charleston, SC 29403
P. (843) 722-0600



Group Rate: \$139.00*

*Use the Group Code “**NCWM 2019**”

Hotel Discount Deadline: December 20, 2018

[CLICK HERE](#) to make your hotel reservation!



Meeting Events

The **Chairman’s Reception** will honor Brett Gurney from the State of Utah. The reception will be Sunday, January 13th at 5:30 p.m. *Attire is business casual.*

**Be sure to submit
your registration form
by December 20
to secure discounted rates!**



All photos courtesy of DiscoverSouthCarolina.com

See You There!

NCWM Welcomes New Members (4/16/18 - 8/15/18)

Alameda County
Cathy Pinkerton-Roache

BASF
Jason Holmes

Bizerba USA, Inc.
Ralk Clement

Boveda
Charles Rutherford

**California Division of
Measurement Standards**
Christina Daniels
Sam Ferris

Capital Scale Co.
Travis Will

Cardinal Scale Manf. Co.
Chris Corbett

Chenago County, NY
Eric Davis

City of North Adams, MA
Mark Bushee

Clover Network Inc.
Ross Peterson

**Colorado Division of Oil
and Public Safety**
Murray Brown
Dan Likes
Chuck Simmons
Jeremy Templin

Coti Global Sensors
Andy Bolden

**Creative Mobile
Technologies LLC**
Chris Plunkett

Explorer Pipeline
Elizabeth Locklear

**Federal Ministry of Industry,
Trade and Investment**
Bala Panti Abdullahi

FlintLoc
Owen DeWitt

FreightSnap, LLC
Kevin O'Rourke

GEC
Amith Kalaghatagi

**Globe Cube Innovations
LLC dba TheGoldCube**
Nakia Geller

GWF MessSysteme AG
Stefan Christen

Hammel Scale of KC
Jerrod Anderson

Hardy Process Solutions
Julio Ibarra

Intercomp
Chris Berg

Kings County, CA
Jimmy Hook

**L.A. County Ag. Comm/
Weights and Measures**
Kejainae Clayton
Ray Gurango
Rick LeFeuvre
Michelle Nguyen
Donna Pangilinan
Daniel Quintero
Amer Saleemi

Liquid Controls
Noelle Weber

Marathon Petroleum Co.
Tamara Paik

Measurement Canada
Diane Allan

Mettler-Toledo, LLC
Vere Miller

**Michigan Department of
Agriculture**
Richard Beeler
Lauren Lee
William Sylvester

**Mississippi Department of
Agriculture and Commerce**
John Eddleman

Ron Jordan
Rebecca Manning

MM Hayes Co., Inc.
Kevin Reedy

Monmouth County W&M, NJ
Evan Berman
David Brabazon
Sarah French
James Heath
Douglas Tedesco
Christopher Trezoglou

Myriad Mobile
Jeremy Burns

NACS
Douglas Kantor

Nebraska: FSCP - W&M
Vicki Eastman
Traci Dragoo
Jamie Johnson
Andrew VanHoozer

**Nevada Division of
Measurement Standards**
Kiara Riske
Nathan Waldron

**North Carolina Department
of Agriculture**
Chad Dillon
Jared Green

Ohaus Corporation
George Hatzimanuel

Orleans County W&M, NY
Ronnie Mannella

PCMS Datafit
Lucas Hennessey

PDI
Steven Kuzuf

**Pennsylvania Department
of Agriculture Bureau of
Weights and Measures**
Russell VanFossen

Prometalicos
Luis Giraldo

**Retail Grocers Association,
Kansas**
John McCormick

Schaeffer Metal Products
Jacob Schaeffer

**South Dakota Weights and
Measures**
Eric Janke

Southwest Fabricators
Troy Minyard

**TÉCNICAS DE
ELECTRÓNICA Y
AUTOMATISMOS, S.A.**
Josep Oller

**Texas Department of
Agriculture**
Christina Osborn

The Lubrizol Corporation
Lilla Voros

Termofisher Scientific
Stuart Mueller

TMI
Gabriel Salvia

ULINE
Aisha Mendoza

USMeter LLC
Moquey Marquross

Vulcan Materials Co.
Justin Higdon

**Wellness Connection
of Maine**
Alexander Cook

**West Virginia Weights and
Measures Division of Labor**
Michael Brammer
Othar Dolin
Rance White

Yamato Corporation
Sean Clark

103rd NCWM Annual Meeting Highlights!

July 15-19, 2018 | Tulsa, Oklahoma



We had some great food at our Chairman's Reception!



From left: Loretta Carey (FDA), Larry Patton (IN), Ronald Johnson (D.C.)



Neal Nover (WinWam) and Jean Kliethermes (MO)



From left: Bob Murnane (Seraphin) and Jerry Buendel (WA)



From left: Kurt Floren (L.A. Co., CA), Warren Dias (L.A. Co., CA), Ernesto Banta L.A. Co., CA), Roberta Willhite (San Bernardino Co., CA) all officials of various California counties



NCWM Chairman James Cassidy and his wife Kerry



Professional Development
Committee Chair
Lori Jacobson (SD)



Specifications and Tolerances
Committee Chair
Ivan Hankins (IA)



Laws and Regulations
Committee Chair
Ethan Bogren (NY)



From left: Ellen Walsh, Angel Nazario,
Jack Walsh, Elaine Vieira, Greg Grillo,
Brian Oliver all Commonwealth of
Massachusetts



Dr. Walter Copan (NIST, OWM)
gave an inspiring address
to our attendees



From left: Jim Willis (NY), Rebecca Richardson (MARC-IV
Consulting), Kevin Upschulte (MO)



"Passing of the Gavel" from
James Cassidy to Brett Gurney

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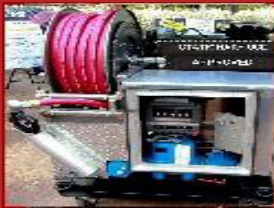
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Member	\$170	\$110	\$80	\$55	\$110	\$80
Non-Member	\$340	\$220	\$160	\$110	\$220	\$160

One Tool: # 1 Inspection Software

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There is only one Software product that addresses all of your Weights & Measures Inspection needs. That tool is WinWam Software.

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.

One Tool and # 1 Inspection Software. WinWam is the most widely used Weights & Measures inspection software on the market. Currently, thirty-one (31) states have purchased WinWam, along with numerous county and city governments.



Package Checking

WinWam Package Checking Software is designed for W&M officials and quality assurance professionals to perform standard and random inspections in accordance with NIST Handbook 133. WinWam Package Checking Software guides you through the inspection process. Error, MAV, Cost Error are calculated for each test. Color displays allow easy identification of Pass Fail or Gray Areas. Some of the features include:

- Category A & B Sampling Plans
- Automatically Calculates MAV's Normal USDA Standard, USDA Fluid, Bark Mulch, Polyethylene Sheeting
- 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.

Hypertext Handbooks

Hypertext Handbooks are a collection of on-line reference manuals in which the user can view government regulations, search on a particular topic and print any part of the handbook with the touch of a button.

2018 Hypertext Handbooks available now!

Nover Engelstein & Associates, Inc. Developers and sole source providers of WinWam Software

3000 Atrium Way, Suite 2203 Mount Laurel NJ 08054

phone: (856) 273-6988 web-site: www.winwam.com e-mail: sales@winwam.com

Safety Column

Is it Safe to Run Gasoline Through a Large Volume Prover?

Mike Sikula, NYS Weights & Measures



Weights and Measures inspectors regularly test vehicle tank meters (VTMs) on trucks delivering combustibles such as fuel oil, kerosene and diesel fuel but may also test trucks delivering flammables like gasoline (forward flammables will be referred to as gasoline). There are always important safety issues that need to be addressed when testing petroleum, however, gasoline is particularly dangerous and additional precautions must be taken. One of these precautions is the electrical system on the prover. Field standard volumetric provers must comply with the requirements of the National Electrical Code, any applicable National Fire Protection Association (NFPA) requirements for use around flammable liquids and gases, and any other regulatory requirements for working around and with hazardous materials. For older provers or provers that have been refurbished, compliance to these specifications may be uncertain and should be verified before use.

Basic petroleum product properties:

Product	Flash Point	Hazard	Volatility
Fuel Oil	100 °F	Combustible	Low
Gasoline	-45 °F	Flammable ¹	High

¹ Gasoline is easily ignited by heat, sparks or flames.

When metrologists calibrate a large volume prover they verify the volume and do several checks evaluating the construction of the prover for metrological stability but do not verify the explosion proof status of the motor and electrical connections as they are not electrical experts. When a metrologist seals and issues a calibration certificate for a large volume prover they are not endorsing its use for a specific product (e.g. gasoline), they are only certifying the volume delivered from the device when filled to the reference mark.

NIST Handbook 105-3 (2010) “Specifications and Tolerances for Graduated Neck Type Volumetric Field Standards” specifies requirements for large volume provers. Section 4.7 “Other Requirements” of 105-3 addresses safety-related items, including grounding and wiring. The explosion proof status of a prover may be impacted by electrical repairs and/or refurbishing. Each state/jurisdiction should evaluate their prover(s) and decide on it’s appropriate use. If a prover has limitations it is advisable to clearly and conspicuously mark the prover with the limitation.

Handling gasoline in any quantity poses safety concerns due to the flammability of the vapors. Handling gasoline in large quantities (e.g. 100 gallons) is dangerous and proper precautions must be taken. Before testing a meter using gasoline as the test liquid make sure you have the right equipment and are properly trained. Do not take unnecessary risks!



Comparing Price and Quantity:

Weights and Measures Inspectors test packages to verify net quantity based on the labeled contents. This allows consumers to compare price and quantity with confidence, knowing that they are getting what they pay for at the supermarket. [Contact your weights and measures authority](#) with questions or concerns.

***Purchase your new NCWM hats and polos
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EVENT CALENDAR

2018

September

WWMA Annual Meeting
Cheyenne, Wyoming
September 16 - 20

NTEP Measuring Sector Meeting
Baltimore, Maryland
September 25 - 26

October

NEWMA Interim Meeting
Norwich, Connecticut
October 2 - 4

SWMA Annual Meeting
Jacksonville, Florida
October 7 - 10

CWMA Interim Meeting
St. Charles, Missouri
October 15 - 17

2019

January

2019 NCWM Interim Meeting
Charleston, South Carolina
January 13 - 16

March

NTEP Lab Meeting
Tulsa, Oklahoma
March 26 - 28

May

CWMA Annual Meeting
Canton, Ohio
May 6 - 9

Looking Forward...

104th NCWM Annual Meeting

July 14 - 18, 2019 | Milwaukee, Wisconsin

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 will have their work cut out for them with some very full and diverse agendas. Committee agendas will be available closer to the meeting dates at:

www.ncwm.net/meetings/annual/publication-16

Meeting Location

Hyatt Regency Milwaukee
333 W Kilbourn Avenue
Milwaukee, WI 53203
P. (888) 421-1442

Group Rate: \$119.00*

**Use the Group Code "G-NCWM"*

Hotel Discount Deadline: June 21, 2019

Meeting Events

The **Chairman's Reception** will honor Brett Gurney from the State of Utah. The reception will be Sunday, July 14th at 5:30 p.m. *Attire is business casual.*

The **Special Event** will be held Wednesday, July 17th. Located in the busy heart of downtown Milwaukee, just 5 blocks from our hotel, **Milwaukee Public Museum** has much to offer our attendees. We will have unlimited access to the entire first floor which includes nine permanent exhibits throughout its 30,000 square feet. Enjoy strolling dinner stations while you relax with complimentary cocktails after a successful, productive week of meetings. Please meet in the hotel lobby for transportation at 5:50 p.m. *Attire is casual.*

**Be sure to submit your registration form by
June 21 to secure discounted rates!**



National Conference on Weights and Measures
“That Equity May Prevail”