

**N C W M  
PUBLICATION**

**16**

**COMMITTEE REPORTS  
FOR THE 103<sup>RD</sup>  
ANNUAL MEETING**

**Tulsa, Oklahoma / July 15-19, 2018**

*Prepared in Cooperation with the National Conference on Weights and Measures, National Type Evaluation Program, National Institute of Standards and Technology Office of Weights and Measures, Central Weights and Measures Association, Northeastern Weights and Measures Association, Southern Weights and Measures Association and Western Weights and Measures Association*



**NIST**  
**National Institute of  
Standards and Technology**  
U.S. Department of Commerce





## **National Conference on Weights and Measures Overview**

National Conference on Weights and Measures (NCWM), Inc. is a standards development organization for weights and measures regulatory agencies of the states, counties, and cities of the United States, as well as for federal agency use. The Annual Meeting brings together government officials and representatives of business, industry, trade associations, and consumer organizations for the purpose of hearing and discussing subjects that relate to the field of weights and measures technology and administration.

The programs of NCWM and its committees explore the broad area of this economically important segment of governmental regulatory service. NCWM develops and recommends laws and regulations, technical codes for weighing and measuring devices used in commerce, test methods, enforcement procedures, and administrative guidelines for adoption by regulatory agencies in the interest of promoting uniformity of requirements and methods among state and local jurisdictions.

A major objective of NCWM is to foster understanding and cooperation among weights and measures officials and all industrial, business, and consumer interests. NCWM has been cited on numerous occasions for its outstanding success. The National Institute of Standards and Technology (NIST) have statutory responsibility for “cooperation with the states in securing uniformity of weights and measures laws and methods of inspection.” Opinions expressed in submitted documents are those of the authors and not necessarily those of NCWM. Contributors are solely responsible for the content and quality of their material.



## Back to the Basics as We Arrive in the Cloud

James Cassidy, Chairman  
City of Cambridge, Massachusetts



Dear NCWM Members,

Welcome to Tulsa, the second largest city in Oklahoma and once called the oil capital of the world. The Hyatt Regency Tulsa Hotel will be hosting the first NCWM conference in Oklahoma from July 15th- July 19th.

There are many must-see attractions while you are in Tulsa. If you are an art lover, please visit the Philbrook Museum of Art and the Gilcrease Museum. If you love the outdoors, plan a trip to Woodward Park and the Tulsa Farmers' Market. But if music is your thing, don't miss the Woody Guthrie Center and the Jazz Hall of Fame at Union Station. Sports lovers will get a chance to visit ONEOK Field, the home of the Tulsa Drillers Double A MILB team.

If this is your first NCWM Annual Meeting and you are new to our process, let me give you a brief overview. We will be reviewing proposed changes to Handbook 44 on Specifications and Tolerance for Weighing and Measuring Devices and Handbook 130 on Model Laws and Regulations, as well as fuels and others. All items that came out of our Interim Meeting were given a status. If there were voting items, they will be voted on at this meeting. We will also be presenting awards during our opening ceremony.

After a great Interim Meeting with the Cannabis Task Group, we now have five focus groups looking at Suitability of Scales, Package and Labeling, Method of Sale, Safety of Inspectors and Moistures Loss. This group will be meeting on Sunday to begin working on these topics, so stop by as we work on our guidance document. This is just a part of the meeting agenda for the week.

Hope to see everyone in Tulsa, safe travels!

Sincerely,

A handwritten signature in black ink that reads "James P. Cassidy Jr." in a cursive script.

James Cassidy  
NCWM Chairman



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## Schedule of Events

*(The schedule of events is tentative and subject to change.)*

*\*Committee hearings will occur in the order presented below. Times of each hearing are not firm; when one committee finishes, the next committee will begin. Committee chairs reserve the right to group items and select their sequence for presentation on voting. There will be no break between committee reports; registrants should plan to attend an entire Voting Session to ensure their presence when items of interest are likely to be under consideration.*

<b>Saturday, July 14, 2018</b>		<b>Room</b>
8:30 a.m. – 5:00 p.m.	Board of Directors Meeting	Executive
<b>Sunday, July 15, 2018</b>		
7:30 a.m. – 9:00 a.m.	Coffee Service	Promenade Foyer
7:30 a.m. – 5:00 p.m.	Registration and Exhibits	Promenade Foyer
8:00 a.m. – 11:30 a.m.	Meter Manufacturers Association	Promenade A
9:00 a.m. – 11:30 a.m.	Credit Card Skimmer Task Group	Executive
9:00 a.m. – 11:30 a.m.	Cannabis Task Group	Promenade B
11:30 a.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 3:30 p.m.	Packaging and Labeling Subcommittee	Directors Row 3
1:00 p.m. – 3:30 p.m.	Fuels and Lubricants Subcommittee	Promenade A
1:00 p.m. – 3:30 p.m.	Charter Team	Executive
1:00 p.m. – 3:30 p.m.	Safety Task Group	Diplomat
3:30 p.m. – 4:00 p.m.	<b>Joint Committee Meeting</b>	Promenade C & D
4:00 p.m. – 5:00 p.m.	<b>Agenda Review</b>	
	Professional Development Committee	Directors Row 3
	Specifications and Tolerances Committee	Promenade B
	Laws and Regulations Committee	Promenade A
	Board of Directors / NTEP Committee	Executive
5:30 p.m. – 7:00 p.m.	<b>Chairman's Reception</b>	Tulsa South

Schedule of Events

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**Monday, July 16, 2018**

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7:00 a.m. – 9:00 a.m.	Light Breakfast	Promenade Foyer
7:00 a.m. – 5:00 p.m.	Registration and Exhibits	Promenade Foyer
8:00 a.m. – 8:30 a.m.	<b>New Attendee Orientation</b> Mr. Chris Guay, Procter and Gamble	Promenade C & D
8:30 a.m. – 5:00 p.m.	<b>Official Session – Open Hearings</b> Presiding Officer: Mr. Jack Walsh, Town of Wellesley, Massachusetts Professional Development Committee Specifications and Tolerances Committee Laws and Regulations Committee NTEP Committee Board of Directors	Promenade C & D
12:00 p.m. – 1:30 p.m.	Lunch on Your Own	
1:30 p.m. – 5:00 p.m.	<b>Official Session – Open Hearings Continued</b>	Promenade C & D
1:30 p.m. – 5:00 p.m.	<b>Committee Work Sessions</b> (To be announced) Professional Development Committee Specifications and Tolerances Committee Laws and Regulations Committee Board of Directors / NTEP Committee	Directors Row 3 Promenade B Promenade A Executive

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<b>Tuesday, July 17, 2018</b>		
7:00 a.m. – 9:00 a.m.	Light Breakfast	Promenade Foyer
7:00 a.m. – 5:00 p.m.	Registration and Exhibits	Promenade Foyer
8:00 a.m. – 9:45 a.m.	<b>Official Session – Open Hearings</b> (continued as necessary) Presiding Officer: Mr. Loren Minnich, Kansas	Promenade C & D
9:45 a.m. – 10:00 a.m.	Break	
10:00 a.m. – 12:00 p.m.	<b>General Session</b> Pledge of Allegiance and Invocation Chaplain: Mr. Constantine Cotsoradis, Flint Hills Resources Welcome Address Director Kenny Naylor, Oklahoma Food Safety & Consumer Protection Services President’s Address Dr. Walter Copan: NIST Director Chairman’s Address Mr. James Cassidy, City of Cambridge, Massachusetts Awards Ceremony	
12:00 p.m. – 1:30 p.m.	Lunch on Your Own	
1:30 p.m. – 3:30 p.m.	<b>Field Trip: Magellan Midstream Partners Tour</b> <i>Note: Time is tentative</i>	
1:30 p.m. – 5:00 p.m.	<b>Committee Work Sessions</b> Professional Development Committee Specifications and Tolerances Committee Laws and Regulations Committee Board of Directors / NTEP Committee	Directors Row 3 Promenade B Promenade A Executive
4:00 p.m. – 5:00 p.m.	<b>Associate Membership Committee</b>	Promenade C & D
8:00 p.m.	<b>Addendum Sheets Available</b>	Promenade Foyer

Schedule of Events

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<b>Wednesday, July 18, 2018</b>		
7:00 a.m. – 9:00 a.m.	Light Breakfast	Promenade Foyer
7:00 a.m. – 3:00 p.m.	Registration and Exhibits	Promenade Foyer
9:00 a.m. – 12:00 p.m.	<b>Regional Association Meetings</b>	
	Central Weights and Measures Association	Executive
	Northeastern Weights and Measures Association	Oklahoma Ballroom
	Southern Weights and Measures Association	Promenade B
	Western Weights and Measures Association	Promenade A
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 4:30 p.m.	<b>Voting Session</b>	Promenade C & D
	Presiding Officer: Mr. Tim Chesser, Arkansas	
	Parliamentarian: Mr. Louis Straub, Fairbanks Scale, Inc.	
	Professional Development Committee	
	Specifications and Tolerances Committee	
	Laws and Regulations Committee	
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6:00 p.m. – 9:30 p.m.	<b>Special Event: ONEOK Field Baseball Game</b>	
	An evening of relaxation in an exclusive private venue at ONEOK Field for Tulsa Drillers Baseball! The all-inclusive evening includes transportation, admission, food and drink, dining and stadium seating. Attire is casual.	
	<i>*Meet in lower lobby, 1<sup>st</sup> floor at 5:50 p.m. for buses.</i>	
	<i>*The first buses will start making trips back to the hotel starting at 8:30 p.m. and will continue until 10:00 p.m.</i>	
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<b>Thursday, July 19, 2018</b>		
7:00 a.m. – 9:00 a.m.	Light Breakfast	Promenade Foyer
7:00 a.m. – 10:00 a.m.	Registration and Exhibits	Promenade Foyer
9:00 a.m. – 12:00 p.m.	<b>Voting Session</b> (continued as necessary)	Promenade C & D
	Presiding Officer: Mr. Kevin Merritt, Idaho	
	Parliamentarian: Mr. Louis Straub, Fairbanks Scale, Inc.	
	NTEP Committee	
	Board of Directors	
	Nominating Committee	
	<b>Closing Ceremony</b>	Promenade C & D
	Passing of the Gavel	
	New Chairman’s Address	
	Benediction and Adjourn	

# Organization Chart

<b>NCWM Board of Directors</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Chairman	James Cassidy	City of Cambridge, Massachusetts	2018
Chairman-Elect	Brett Gurney	Utah	2018
Immediate Past Chair	Kristin Macey	California	2018
Treasurer	Raymond Johnson	New Mexico	2020
Active Membership – Western	Mahesh Albuquerque	Colorado	2022
Active Membership – Southern	Kenneth Ramsburg	Maryland	2018
Active Membership – Northeastern	Jack Walsh	Town of Wellesley, Massachusetts	2019
Active Membership – Central	Craig VanBuren	Michigan	2020
At-Large	Chuck Corr	Archer Daniels Midland Company	2018
At-Large	Julie Quinn	Minnesota	2021
Associate Membership Representative	Christopher Guay	Procter and Gamble, Co.	2019
Honorary NCWM President	Dr. Walter G. Copan	NIST Director	NA
Executive Director	Don Onwiler	NCWM	NA
Executive Secretary	Dr. Douglas Olson	NIST, Office of Weights and Measures	NA
NTEP Administrator	Jim Truex	NCWM	NA
Measurement Canada Advisor	Carl Cotton	Measurement Canada	NA
<b>National Type Evaluation Program Committee (NTEP)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Kristin Macey	California	2018
Upcoming Committee Chair	James Cassidy	City of Cambridge, Massachusetts	2019
Upcoming Committee Chair	Brett Gurney	Utah	2020
SWMA Representative	Kenneth Ramsburg	Maryland	2018
CWMA Representative	Craig VanBuren	Michigan	2020
NTEP Administrator	Jim Truex	NCWM	NA
<b>Finance Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Brett Gurney	Utah	2018
Nominated Chair-Elect	Craig VanBuren	Michigan	2018
Treasurer	Raymond Johnson	New Mexico	2018
Associate Membership Representative	Christopher Guay	Procter and Gamble, Co.	2018
Executive Director	Don Onwiler	NCWM	NA

## Organization Chart

<b>Laws and Regulations Committee (L&amp;R)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Ethan Bogren	Westchester County, New York	2020
Member	John Albert	Missouri	2018
Member	Michelle Wilson	Arizona	2019
Member	Hal Prince	Florida	2021
Member	John McGuire	New Jersey	2022
Associate Membership Representative	Rebecca Richardson	MARC – IV Consulting	2018
Canadian Technical Advisor	Lance Robertson	Measurement Canada	NA
NIST Technical Advisor	David Sefcik	NIST, Office of Weights and Measures	NA
NIST Technical Advisor	Lisa Warfield	NIST, Office of Weights and Measures	NA
<b>Professional Development Committee (PDC)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Lori Jacobson	South Dakota	2018
Member	Gene Robertson	Mississippi	2019
Member	Marc Paquette	Vermont	2020
Member	Marco Mares	San Diego County, California	2021
Member	Jean Kliethermes	Missouri	2022
Associate Membership Representative	Richard Shipman	Rice Lake Weighing Systems, Inc.	2018
Safety Liaison	Julie Quinn	Minnesota	NA
NIST Liaison	Tina Butcher	NIST, Office of Weights and Measures	NA
Certification Coordinator	Ross Andersen	Retired	NA
<b>Specifications and Tolerances Committee (S&amp;T)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Ivan Hankins	Iowa	2019
Member	Tim Chesser	Arkansas	2018
Member	Rachelle Miller	Wisconsin	2020
Member	Josh Nelson	Oregon	2021
Member	Brad Bachelder	Maine	2022
Canadian Technical Advisor	Luciano Burtini	Measurement Canada	NA
NIST Technical Advisor	TBD	NIST, Office of Weights and Measures	NA
NIST Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures	NA
NTEP Technical Advisor	Darrell Flocken	NCWM	NA
<b>Nominating Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Kristin Macey	California	2018
Member	Stephen Benjamin	North Carolina	2018
Member	Mark Coyne	City of Brockton, Massachusetts	2018
Member	Frank Greene	Connecticut	2018
Member	Ivan Hankins	Iowa	2018
Member	Richard Lewis	Georgia	2018
Member	Hal Prince	Florida	2018

Organization Chart

<b>Credentials Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Lori Jacobson	South Dakota	2018
Member	Elaine Vieira	Massachusetts	2019
Member	David Aguayo	County of San Luis Obispo, California	2020
Coordinator	Darrell Flocken	NCWM	NA
<b>Appointive Officials</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Chaplain	Constantine Cotsoradis	Flint Hills Resources	2018
Parliamentarian	Louis Straub	Fairbanks Scale, Inc.	2018
Presiding Officer	Tim Chesser	Arkansas	2018
Presiding Officer	Kevin Merritt	Idaho	2018
Presiding Officer	Loren Minnich	Kansas	2018
Presiding Officer	Jack Walsh	Town of Wellesley, Massachusetts	2018
Sergeant-at-Arms	Mike Bookout	Oklahoma	2018
Sergeant-at-Arms	Scott Novak	Oklahoma	2018
<b>Associate Membership Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Bill Callaway	Cromptco	2018
Vice-Chair	Mark Flint	ADM	2018
Secretary / Treasurer	Bob Wiese	Northwest Tank and Environmental Services	2018
Member	David Calix	NCR Corporation	2018
Member	Bill Callaway	Cromptco	2018
Member	Robert Murnane, Jr.	Seraphin Test Measure	2018
Member	Richard Shipman	Rice Lake Weighing Systems, Inc.	2020
Member	Christopher Guay	Procter and Gamble, Co.	2020
Member	Mark Flint	ADM	2020
Member	Rebecca Richardson	MARC – IV Consulting	2020
Member	Prentiss Searles	American Petroleum Institute	2022
Member	Bob Wiese	Northwest Tank and Environmental Services	2022
<b>Packaging and Labeling Subcommittee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	
Committee Chair	Christopher Guay	Procter and Gamble, Co.	
NIST Technical Advisor	David Sefcik	NIST, Office of Weights and Measures	
Public Sector – Central	Nicholas Owens	Stark County Weights and Measures, Ohio	
Public Sector – Northeastern	Frank Greene	Connecticut	
Public Sector – Southern	Hal Prince	Florida	
Public Sector – Western	Angela Godwin	County of Ventura, California	
Private Sector Member	Ann Boeckman	Kraft Food Group, Inc.	
Private Sector Member	Krister Hard af Segerstad	IKEA North America Services, LLC	
Private Sector Member	Zina Juroch	Pier 1 Imports	

## Organization Chart

<b>Fuels and Lubricants Subcommittee</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Committee Chair	Bill Striejewske	Nevada
Vice-Chair	Ronald Hayes	Missouri
Vice-Chair	Randy Jennings	Tennessee
Secretary	Kevin Ferrick	American Petroleum Institute
Vice-Secretary	Rebecca Richardson	MARC – IV Consulting
NIST Technical Advisor	David Sefcik	NIST, Office of Weights and Measures
NIST Technical Advisor	Lisa Warfield	NIST, Office of Weights and Measures
Advisory Member	Curtis Williams	Retired
Public Sector Member	Mahesh Albuquerque	Colorado
Public Sector Member	David Au	Georgia
Public Sector Member	Vanessa Benchea	Florida
Public Sector Member	Stephen Benjamin	North Carolina
Public Sector Member	Tim Elliott	Washington
Public Sector Member	Mike Harrington	Iowa
Public Sector Member	Lori Jacobson	South Dakota
Public Sector Member	Kristin Macey	California
Public Sector Member	Allan Morrison	California
Public Sector Member	Doug Rathbun	Illinois
Public Sector Member	Karl Scott	Utah
Public Sector Member	Brenda Sharkey	South Dakota
Public Sector Member	Charles Stutesman	Kansas
Public Sector Member	Kevin Upschulte	Missouri
Public Sector Member	Timothy White	Michigan
Public Sector Member	Michelle Wilson	Arizona
Private Sector Member	Holly Alfano	Independent Lubricant Manufacturers Association
Private Sector Member	Matt Bjornson	Bjornson Oil Company
Private Sector Member	Bill Cannella	Chevron Global Downstream, LLC
Private Sector Member	Chuck Corr	Archer Daniels Midland Company
Private Sector Member	Davis Cosey	Davis Oil Company
Private Sector Member	Kelly Davis	Renewable Fuels Association
Private Sector Member	Ed Dougherty	Sunoco LP
Private Sector Member	Scott Fenwick	National Biodiesel Board
Private Sector Member	David Fialkov	NATSO
Private Sector Member	Rick Fragnito	Shell
Private Sector Member	Philip Guillemette	Flint Hills Resources, LP
Private Sector Member	John Harkins	Sunoco Logistics
Private Sector Member	Marilyn Herman	Herman and Associates
Private Sector Member	Cal Hodge	A 2nd Opinion, Inc.
Private Sector Member	William Hornbach	Chevron Global Downstream, LLC
Private Sector Member	Joanna Johnson	Automotive Oil Exchange Association
Private Sector Member	Brian Kernke	Loves Travel Stops



Organization Chart

Private Sector Member	Stephen Kirby	General Motors
Private Sector Member	David A. Kovach	BP Products
Private Sector Member	Mike Kunselman	Center for Quality Assurance
Private Sector Member	Jeffrey Leiter	Bassman, Mitchell, Alfano & Leiter Chtd.
Private Sector Member	Russ Lewis	Marathon Petroleum, LLC
Private Sector Member	Michael Lynch	ExxonMobil Corporation
Private Sector Member	Scott Mason	Phillips 66
Private Sector Member	John Maynes	PMCI
Private Sector Member	Beverly Michels	BP Products
Private Sector Member	Kristi Moore	KMoore Consulting, LLC
Private Sector Member	Manuch Nikanjam	Chevron Global Downstream, LLC
Private Sector Member	Brian Parnell	Mapco Express
Private Sector Member	Keith Penn	Colonial Pipeline Company
Private Sector Member	Derek Regal	Tesoro Companies, Inc.
Private Sector Member	Jim Rocco	Petroleum Marketers Association of America
Private Sector Member	Prentiss Searles	American Petroleum Institute
Private Sector Member	Jenny Sigelko	Volkswagen Group of America
Private Sector Member	Dr. Prasad Tumati	Haltermann Solutions
Private Sector Member	Marie Valentine	Toyota - TEMA - TTC
Private Sector Member	Steve Vander Griend	ICM, Inc.
<b>Promotional Tool Kit Task Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Stephen Benjamin	North Carolina
Public Sector Member	Jerry Buendel	Washington
Public Sector Member	Kurt Floren	Los Angeles County, California
Private Sector Member	Bill Callaway	Crompco
Private Sector Member	John Hughes	Rice Lake Weighing Systems, Inc.
<b>Credit Card Skimmer Task Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Hal Prince	Florida
Public Sector Member	Mike Harrington	Iowa
Public Sector Member	Joel Maddux	Virginia
Public Sector Member	Scott Wagner	Colorado
Public Sector Member	Mike Sikula	New York
Private Sector Member	Paige Anderson	National Association of Convenience Stores
Private Sector Member	Owen DeWitt	FlintLoc Technologies, LLC
Private Sector Member	Randy Moses	Wayne Fueling Systems
Private Sector Member	Brent Price	Gilbarco, Inc.

## Organization Chart

<b>Safety Task Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Julie Quinn	Minnesota
Public Sector Member	Jason Flint	New Jersey
Public Sector Member	Georgia Harris	NIST, Office of Weights and Measures
Public Sector Member	Elizabeth Koncki	Maryland
Public Sector Member	Matt Maiten	Santa Barbara County, California
Public Sector Member	Brenda Sharkey	South Dakota
Public Sector Member	Mike Sikula	New York
Private Sector Member	Tisha Arriaga	Marathon Petroleum, LLC
Private Sector Member	Bill Callaway	Cromptco
Private Sector Member	Remy Cano	Northwest Tank and Environmental Services, Inc.
Private Sector Member	Brad Fryburger	Rinstrum, Inc.
Private Sector Member	Robert LaGasse	Mulch and Soil Council
Private Sector Member	John Lawn	Rinstrum, Inc.
Private Sector Member	Richard Shipman	Rice Lake Weighing Systems, Inc.

<b>Cannabis Task Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	James Cassidy	City of Cambridge, Massachusetts
Public Sector Member	Brad Bachelder	Maine
Public Sector Member	Loren Kipp Blauer	Nevada
Public Sector Member	Jerry Buendel	Washington
Public Sector Member	Tim Chesser	Arkansas
Public Sector Member	Mark Ciociolo	City of Worcester, Massachusetts
Public Sector Member	Fran Elson-Houston	Ohio
Public Sector Member	Jason Flint	New Jersey
Public Sector Member	Kurt Floren	Los Angeles County, California
Public Sector Member	Paul Floyd	Louisiana
Public Sector Member	Mike Gower	Nevada
Public Sector Member	Gabriel Gowman	Riverside County, California
Public Sector Member	Kevin Grosskreutz	City of Appleton, Wisconsin
Public Sector Member	Ivan Hankins	Iowa
Public Sector Member	Mike Harrington	Iowa
Public Sector Member	Steven Harrington	Oregon
Public Sector Member	Ryanne Hartman	Michigan
Public Sector Member	Maria del Carmen Kern	San Francisco County, California
Public Sector Member	Kristin Macey	California
Public Sector Member	Mike Mann	Washington
Public Sector Member	Mauricio Mejia	Florida
Public Sector Member	Cree Morgan	San Francisco, California
Public Sector Member	Randall Morrison	Erie County, New York
Public Sector Member	Doug Musick	Kansas
Public Sector Member	Angel Nazario	City of Boston, Massachusetts
Public Sector Member	Josh Nelson	Oregon
Public Sector Member	Laurence Nolan	Los Angeles County, California (Retired)
Public Sector Member	Kenneth Ramsburg	Maryland
Public Sector Member	William Rigby	Utah
Public Sector Member	Hugo Soto	Riverside County, California
Public Sector Member	Dedrick Stephens	City of Cleveland, Ohio
Public Sector Member	Ron Valinski	City of Worcester, Massachusetts
Public Sector Member	Elaine Vieira	City of Boston, Massachusetts
Public Sector Member	John Young	Yolo County, California
Private Sector Member	Andy Brassington	Evergreen Herbal
Private Sector Member	Eric Golden	Cardinal Scale Manufacturing, Co.
Private Sector Member	Richard Guild	The Scale People, Inc.
Private Sector Member	George Hatziemanuel	Ohaus Corporation
Private Sector Member	Richard Shipman	Rice Lake Weighing Systems, Inc.

## Organization Chart

<b>Weigh-In-Motion Task Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Co-Chair	Tim Chesser	Arkansas
Co-Chair	Alan Walker	Florida
NTEP Technical Advisor	Darrell Flocken	NCWM
NIST Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
Public Sector Member	John Barton	NIST, Office of Weights and Measures
Public Sector Member	Jason Flint	New Jersey
Public Sector Member	Greg Gholston	Mississippi
Public Sector Member	Lenny Goebel	Illinois
Public Sector Member	John McGuire	New Jersey
Public Sector Member	Jason Smith	South Dakota
Private Sector Member	Cary Ainsworth	Tufner Weighing and Automation Systems
Private Sector Member	Jon Arnold	Intercomp Company
Private Sector Member	Tim Broemmer	Rice Lake Weighing Systems, Inc.
Private Sector Member	Scott Davidson	Mettler-Toledo, LLC
Private Sector Member	James Faas	YRC Freight
Private Sector Member	Brad Fryburger	Rinstrum, Inc.
Private Sector Member	Eric Golden	Cardinal Scale Manufacturing, Co.
Private Sector Member	Joe Grell	Rice Lake Weighing Systems, Inc.
Private Sector Member	Randy Hanson	International Road Dynamics
Private Sector Member	John Lawn	Rinstrum, Inc.
Private Sector Member	Joe Rickey	Rinstrum, Inc.
Private Sector Member	Louis Straub	Fairbanks Scale, Inc.
Private Sector Member	Richard Suiter	Richard Suiter Consulting
Private Sector Member	Brian Taylor	Intelligent Imaging Systems
Private Sector Member	Russ Vires	Mettler-Toledo, LLC
Private Sector Member	Sam Wimsett	Cardinal Scale Manufacturing, Co.
Private Sector Member	Matt Young	Intercomp Company
<b>NTEP EVSE Work Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Andrei Moldoveanu	NEMA
NTEP Administrator	Jim Truex	NCWM
Technical Advisor	Juana Williams	NIST, Office of Weights and Measures
Public Sector Member	Andrei Brezoica	California
Public Sector Member	Tom Buck	Ohio
Public Sector Member	Joseph Eccleston	Maryland
Public Sector Member	Allen Katalinic	North Carolina
Private Sector Member	Ted Bohn	ANL
Private Sector Member	Harry Haas	Siemens Industry, Inc.
Private Sector Member	Bill Hardy	Power Measurements, LLC
Private Sector Member	Dave Parmelee	Control Module, Inc.

<b>Multiple Dimension Measuring Device Work Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Robert Kennington	Quantronix, Inc.
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
Public Sector Member	Tom Buck	Ohio
Public Sector Member	Fran Elson-Houston	Ohio
Public Sector Member	Jeff Fantozzi	Ohio
Public Sector Member	Pascal Turgeon	Measurement Canada, Policy/Regulations Group
Private Sector Member	Sprague Ackley	Honeywell
Private Sector Member	Bruce Budinger	Northrop Grumman / AOA Xinetics
Private Sector Member	Bill Danderand	FedEx Freight
Private Sector Member	Scott Davidson	Mettler-Toledo, LLC
Private Sector Member	Michael Eichenberg	FreightSnap, LLC
Private Sector Member	Matthew Erim	National Motor Freight Traffic Association
Private Sector Member	Barry Gebler	Parcel Tools
Private Sector Member	Scott Henry	Zebra Technologies
Private Sector Member	Uwe Mohr	Vitronic
Private Sector Member	Scott Murchison	Zebra Technologies
Private Sector Member	Don Newell	National Motor Freight Traffic Association
Private Sector Member	Sameer Parmar	SICK, Inc.
Private Sector Member	Weston Privett	XPO LTL
Private Sector Member	Tony Romeo	Datalogic
Private Sector Member	Christopher Senneff	Rice Lake Weighing Systems, Inc.
Private Sector Member	Richard Shipman	Rice Lake Weighing Systems, Inc.
Private Sector Member	Mike Stutler	United Parcel Service
Private Sector Member	Richard Suiter	Richard Suiter Consulting
Private Sector Member	Russ Vires	Mettler-Toledo, LLC
Private Sector Member	Xin Wang	Amazon
Private Sector Member	Scott Wigginton	United Parcel Service
<b>NTEP Belt-Conveyor Scale Sector</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Peter Sirrico	Thayer Scale / Hyer Industries
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	John Barton	NIST, Office of Weights and Measures
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Zacharias Tripoulas	Maryland
Private Sector Member	Jason Kukachka	Thermo Fisher Scientific

## Organization Chart

<b>NTEP Grain Analyzer Sector</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Karl Cunningham	Illinois
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	G. Diane Lee	NIST, Office of Weights and Measures
Advisory Member	Cassie Eigenmann	Retired
Public Sector Member	Randy Burns	Arkansas
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Ivan Hankins	Iowa
Public Sector Member	Thomas Hughes	Missouri
Public Sector Member	Jason Jordan	USDA, GIPSA, Technical Services Division
Private Sector Member	Jeffrey Adkisson	Grain and Feed Association of Illinois
Private Sector Member	Rachel Beiswenger	TSI Incorporated
Private Sector Member	Martin Clements	The Steinlite Corporation
Private Sector Member	Kathy Conover	DICKEY-john Corporation
Private Sector Member	Andrew Gell	Foss North America
Private Sector Member	Charles Hurburgh, Jr.	Iowa State University
Private Sector Member	Jess McCluer	National Grain and Feed Association
Private Sector Member	Thomas Runyon	Seedburo Equipment Co.
<b>NTEP Measuring Sector</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Michael Keilty	Endress + Hauser Flowtec AG, USA
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	Clark Cooney	California Division of Measurement Standards
Public Sector Member	Luciano Burtini	Measurement Canada
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Joe Eccleston	Maryland
Public Sector Member	Allen Katalinic	North Carolina
Public Sector Member	John Roach	California
Private Sector Member	Steve Bar	Bennett Pump Company
Private Sector Member	Marc Buttler	Emerson Process Management / Micro Motion
Private Sector Member	Craig Cavanaugh	Tuthill Transfer Systems
Private Sector Member	Rodney Cooper	Brodie International
Private Sector Member	Constantine Cotsoradis	Flint Hills Resources
Private Sector Member	Ronnell Gallon	Zenner Performance Meters, Inc.
Private Sector Member	Gordon Johnson	Gilbarco, Inc.
Private Sector Member	Dmitri Karimov	Liquid Controls, LLC
Private Sector Member	Douglas Long	RDM Industrial Electronics
Private Sector Member	Wade Mattar	Invensys / Foxboro
Private Sector Member	Richard Miller	FMC Technologies Measurement Solutions, Inc.
Private Sector Member	Randy Moses	Wayne Fueling Systems

## Organization Chart

Private Sector Member	Andre Noel	Neptune Technology Group, Inc.
Private Sector Member	Christopher (Adam) Oldham	Gilbarco, Inc.
Private Sector Member	Robin Parsons	Parafour Innovations, LLC
Private Sector Member	Richard Tucker	RL Tucker Consulting, LLC

## Organization Chart

<b>NTEP Software Sector</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	James Pettinato	FMC Technologies Measurement Solutions, Inc.
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Secretary	Teri Gulke	Liquid Controls, LLC
Technical Advisor	Doug Bliss	Mettler-Toledo, LLC
Public Sector Member	Andrei Brezoica	California
Public Sector Member	Tom Buck	Ohio
Public Sector Member	Luciano Burtini	Measurement Canada
Public Sector Member	Joe Eccleston	Maryland
Public Sector Member	Eric Morabito	New York
Public Sector Member	John Roach	California
Public Sector Member	Ambler Thompson	NIST, Office of Weights and Measures
Public Sector Member	Zacharias Tripoulas	Maryland
Private Sector Member	Mary Abens	Emerson Process Management
Private Sector Member	John Atwood	Tyson Foods
Private Sector Member	Gary Benjamin	NCR Corporation
Private Sector Member	Benjamin Bertz	Red Seal Measurement
Private Sector Member	Chris Corbett	Cardinal Scale Manufacturing, Co.
Private Sector Member	Kevin Detert	Avery Weigh-Tronix
Private Sector Member	Andrew Gell	Foss North America
Private Sector Member	Keith Harper	Gencor Industries, Inc.
Private Sector Member	Jan Konijnenburg	Rice Lake Weighing Systems, Inc.
Private Sector Member	Dominic Meyer	KSí Conveyors, Inc.
Private Sector Member	Richard Miller	FMC Technologies Measurement Solutions, Inc.
Private Sector Member	Christopher (Adam) Oldham	Gilbarco, Inc.
Private Sector Member	Mike Roach	VeriFone
Private Sector Member	Robin Sax	CompuWeigh Corporation
Private Sector Member	David Vande Berg	Vande Berg Scales
Private Sector Member	John Wind	Bizerba USA, Inc.
Private Sector Member	Kraig Wooddell	Hobart



<b>NTEP Weighing Sector</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Rob Upright	Vishay Transducers
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
Advisory Member	Robert Feezor	Retired
Public Sector Member	L. Cary Ainsworth	USDA, GIPSA
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Kevin Chesnutwood	NIST, Office of Weights and Measures
Public Sector Member	Fran Elson-Houston	Ohio
Public Sector Member	Nathan Gardner	Oregon
Public Sector Member	Marcus Harwitz	USDA, GIPSA, FGIS
Public Sector Member	Robert Meadows	Kansas
Public Sector Member	Eric Morabito	New York
Public Sector Member	Zacharias Tripoulas	Maryland
Public Sector Member	Pascal Turgeon	Measurement Canada
Public Sector Member	Juana Williams	NIST, Office of Weights and Measures
Private Sector Member	Steven Beitzel	Systems Associates, Inc.
Private Sector Member	Neil Copley	Thurman Scale Co.
Private Sector Member	Bill Danderand	FedEx Freight
Private Sector Member	Mitchell Eyles	Flintec, Inc.
Private Sector Member	Brad Fryburger	Rinstrum, Inc.
Private Sector Member	Eric Golden	Cardinal Scale Manufacturing, Co.
Private Sector Member	Jon Heinlein	Transcell Technology, Inc.
Private Sector Member	Scott Henry	Zebra Technologies
Private Sector Member	Sam Jalahej	Totalcomp, Inc.
Private Sector Member	Jan Konijnenburg	Rice Lake Weighing Systems, Inc.
Private Sector Member	John Lawn	Rinstrum, Inc.
Private Sector Member	L. Edward Luthy	Schenck Process Transport N.A.
Private Sector Member	Weston Privett	XPO LTL
Private Sector Member	Thomas Rice	Mettler-Toledo, LLC
Private Sector Member	Kyle Schaffer	Tufner Weighing Systems
Private Sector Member	Louis Straub	Fairbanks Scale, Inc.
Private Sector Member	Russ Vires	Mettler-Toledo, LLC
Private Sector Member	Jerry Wang	A&D Engineering, Inc.

## Organization Chart

<b>Central Weights and Measures Association (CWMA) <a href="http://www.cwma.net">www.cwma.net</a></b>						
<b>States</b>	Illinois Indiana Iowa	Kansas Michigan Minnesota	Missouri Nebraska North Dakota	Ohio South Dakota Wisconsin		
<b>Contact</b>	Sherry Turvey Kansas Department of Agriculture			(785) 564-6682 <a href="mailto:sherry.turvey@ks.gov">sherry.turvey@ks.gov</a>		
<b>Interim Meeting</b>	October 15 – 17, 2018			St. Charles, Missouri		
<b>Annual Meeting</b>	May 6 – 9, 2019			Canton, Ohio		
<b>Northeastern Weights and Measures Association (NEWMA) <a href="http://www.newma.us">www.newma.us</a></b>						
<b>States</b>	Connecticut Maine Massachusetts	New Hampshire New Jersey New York	Pennsylvania Puerto Rico Rhode Island	Vermont		
<b>Contact</b>	James Cassidy City of Cambridge Weights and Measures Department			(617) 349-6133 <a href="mailto:jcassidy@cambridgema.gov">jcassidy@cambridgema.gov</a>		
<b>Annual Meeting</b>	2019, TBD			TBD		
<b>Interim Meeting</b>	October 2 – 4, 2018			Norwich, Connecticut		
<b>Southern Weights and Measures Association (SWMA) <a href="http://www.swma.org">www.swma.org</a></b>						
<b>States</b>	Alabama Arkansas Delaware	District of Columbia Florida Georgia	Kentucky Louisiana Maryland	Mississippi North Carolina Oklahoma	South Carolina Tennessee Texas	US Virgin Islands Virginia West Virginia
<b>Contact</b>	Hal Prince Florida Dept. of Agriculture and Consumer Services			(850) 921-1570 <a href="mailto:harold.prince@freshfromflorida.com">harold.prince@freshfromflorida.com</a>		
<b>Annual Meeting</b>	October 7 – 10, 2018			Jacksonville, Florida		
<b>Western Weights and Measures Association (WWMA) <a href="http://www.westernwma.org">www.westernwma.org</a></b>						
<b>States</b>	Alaska Arizona California	Colorado Hawaii Idaho	Montana Nevada New Mexico	Oregon Utah Washington	Wyoming	
<b>Contact</b>	Bob Weidler Wyoming Department of Agriculture			(307) 777-7556 <a href="mailto:robert.weidler@wyo.gov">robert.weidler@wyo.gov</a>		
<b>Annual Meeting</b>	September 16 – 20, 2018			Cheyenne, Wyoming		

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**Past Chairmen**


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<b>Conference</b>	<b>Year</b>	<b>Location</b>	<b>Chairman</b>	<b>Affiliation</b>
1 <sup>st</sup>	1905	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
2 <sup>nd</sup>	1906	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
3 <sup>rd</sup>	1907	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
4 <sup>th</sup>	1908	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
	1909	Conference Was Not Held		
5 <sup>th</sup>	1910	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
6 <sup>th</sup>	1911	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
7 <sup>th</sup>	1912	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
8 <sup>th</sup>	1913	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
9 <sup>th</sup>	1914	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
10 <sup>th</sup>	1915	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
11 <sup>th</sup>	1916	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
	1917	Conference Was Not Held		
	1918	Conference Was Not Held		
12 <sup>th</sup>	1919	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
13 <sup>th</sup>	1920	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
14 <sup>th</sup>	1921	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
15 <sup>th</sup>	1922	Washington, D.C.	Dr. S.W. Stratton	National Bureau of Standards
16 <sup>th</sup>	1923	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
17 <sup>th</sup>	1924	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
18 <sup>th</sup>	1925	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
19 <sup>th</sup>	1926	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
20 <sup>th</sup>	1927	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
21 <sup>st</sup>	1928	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
22 <sup>nd</sup>	1929	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
23 <sup>rd</sup>	1930	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
24 <sup>th</sup>	1931	Washington, D.C.	Dr. George Burgess	National Bureau of Standards
	1932	Conference Was Not Held		
	1933	Conference Was Not Held		
	1934	Conference Was Not Held		
25 <sup>th</sup>	1935	Washington, D.C.	Dr. Lyman Briggs	National Bureau of Standards
26 <sup>th</sup>	1936	Washington, D.C.	Dr. Lyman Briggs	National Bureau of Standards
27 <sup>th</sup>	1937	Washington, D.C.	Dr. Lyman Briggs	National Bureau of Standards
28 <sup>th</sup>	1938	Washington, D.C.	Dr. Lyman Briggs	National Bureau of Standards
29 <sup>th</sup>	1939	Washington, D.C.	Dr. Lyman Briggs	National Bureau of Standards
30 <sup>th</sup>	1940	Washington, D.C.	Dr. Lyman Briggs	National Bureau of Standards
31 <sup>st</sup>	1941	Washington, D.C.	Dr. Lyman Briggs	National Bureau of Standards
	1942	Conference Was Not Held		
	1943	Conference Was Not Held		
	1944	Conference Was Not Held		
	1945	Conference Was Not Held		
32 <sup>nd</sup>	1946	Washington, D.C.	Dr. E.U. Condon	National Bureau of Standards
33 <sup>rd</sup>	1947	Washington, D.C.	Dr. E.U. Condon	National Bureau of Standards
	1948	Conference Was Not Held		
34 <sup>th</sup>	1949	Washington, D.C.	Dr. E.U. Condon	National Bureau of Standards
35 <sup>th</sup>	1950	Washington, D.C.	Dr. E.U. Condon	National Bureau of Standards
36 <sup>th</sup>	1951	Washington, D.C.	Dr. E.U. Condon	National Bureau of Standards
37 <sup>th</sup>	1952	Washington, D.C.	Dr. A.V. Astin	National Bureau of Standards
38 <sup>th</sup>	1953	Washington, D.C.	Dr. A.V. Astin	National Bureau of Standards
39 <sup>th</sup>	1954	Washington, D.C.	Dr. A.V. Astin	National Bureau of Standards
40 <sup>th</sup>	1955	Washington, D.C.	Dr. A.V. Astin	National Bureau of Standards

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**Past Chairmen**


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<b>Conference</b>	<b>Year</b>	<b>Location</b>	<b>Chairman</b>	<b>Affiliation</b>
41 <sup>st</sup>	1956	Washington, D.C.	Dr. A.V. Astin	National Bureau of Standards
42 <sup>nd</sup>	1957	Washington, D.C.	Dr. A.V. Astin	National Bureau of Standards
43 <sup>rd</sup>	1958	Washington, D.C.	J.P. McBride	Massachusetts
44 <sup>th</sup>	1959	Washington, D.C.	C.M. Fuller	California
45 <sup>th</sup>	1960	Washington, D.C.	H.E. Crawford	Florida
46 <sup>th</sup>	1961	Washington, D.C.	R.E. Meek	Indiana
47 <sup>th</sup>	1962	Washington, D.C.	Robert Williams	New York
48 <sup>th</sup>	1963	Washington, D.C.	C.H. Stender	South Carolina
49 <sup>th</sup>	1964	Washington, D.C.	D.M. Turnbull	Washington
50 <sup>th</sup>	1965	Washington, D.C.	V.D. Campbell	Ohio
51 <sup>st</sup>	1966	Denver, CO	J.F. True	Kansas
52 <sup>nd</sup>	1967	Washington, D.C.	J.E. Bowen	Massachusetts
53 <sup>rd</sup>	1968	Washington, D.C.	C.C. Morgan	Indiana
54 <sup>th</sup>	1969	Washington, D.C.	S.H. Christie	New Jersey
55 <sup>th</sup>	1970	Salt Lake City, UT	R.W. Searles	Ohio
56 <sup>th</sup>	1971	Washington, D.C.	M. Jenning	Tennessee
57 <sup>th</sup>	1972	Washington, D.C.	E.H. Black	California
58 <sup>th</sup>	1973	Minneapolis, MN	George Johnson	Kentucky
59 <sup>th</sup>	1974	Washington, D.C.	John Lewis	Washington
60 <sup>th</sup>	1975	San Diego, CA	Sydney Andrews	Florida
61 <sup>st</sup>	1976	Washington, D.C.	Richard Thompson	Maryland
62 <sup>nd</sup>	1977	Dallas, TX	Earl Prideaux	Colorado
63 <sup>rd</sup>	1978	Washington, D.C.	James Lyles	Virginia
64 <sup>th</sup>	1979	Portland, OR	Kendrick Simila	Oregon
65 <sup>th</sup>	1980	Washington, D.C.	Charles Vincent	Texas
66 <sup>th</sup>	1981	St. Louis, MO	Edward Stadolnik	Massachusetts
67 <sup>th</sup>	1982	Atlanta, GA	Edward Heffron	Michigan
68 <sup>th</sup>	1983	Sacramento, CA	Charles Greene	New Mexico
69 <sup>th</sup>	1984	Boston, MA	Sam Hindsman	Arkansas
70 <sup>th</sup>	1985	Washington, D.C.	Ezio Delfino	California
71 <sup>st</sup>	1986	Albuquerque, NM	George Mattimoe	Hawaii
72 <sup>nd</sup>	1987	Little Rock, AR	Frank Nagele	Michigan
73 <sup>rd</sup>	1988	Grand Rapids, MI	Darrell Guensler	California
74 <sup>th</sup>	1989	Seattle, WA	John Bartfai	New York
75 <sup>th</sup>	1990	Washington, D.C.	Fred Gerk	New Mexico
76 <sup>th</sup>	1991	Philadelphia, PA	N. David Smith	North Carolina
77 <sup>th</sup>	1992	Nashville, TN	Sidney Colbrook	Illinois
78 <sup>th</sup>	1993	Kansas City, MO	Allan Nelson	Connecticut
79 <sup>th</sup>	1994	San Diego, CA	Thomas Geiler	Massachusetts
80 <sup>th</sup>	1995	Portland, ME	James Truex	Ohio
81 <sup>st</sup>	1996	New Orleans, LA	Charles Gardne	New York
82 <sup>nd</sup>	1997	Chicago, IL	Barbara Bloch	California
83 <sup>rd</sup>	1998	Portland, OR	Steven Malone	Nebraska
84 <sup>th</sup>	1999	Burlington, VT	Aves Thompson	Alaska
85 <sup>th</sup>	2000	Richmond, VA	Wes Diggs	Virginia
86 <sup>th</sup>	2001	Washington, DC	Louis Straub	Maryland
87 <sup>th</sup>	2002	Cincinnati, OH	Ronald Murdock	North Carolina
88 <sup>th</sup>	2003	Sparks, NV	Ross Andersen	New York
89 <sup>th</sup>	2004	Pittsburgh, PA	Dennis Ehrhart	Arizona
90 <sup>th</sup>	2005	Orlando, FL	Wes Diggs	Virginia
91 <sup>st</sup>	2006	Chicago, IL	Don Onwiler	Nebraska

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**Past Chairmen**


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<b>Conference</b>	<b>Year</b>	<b>Location</b>	<b>Chairman</b>	<b>Affiliation</b>
92 <sup>nd</sup>	2007	Salt Lake City, UT	Michael Cleary	California
93 <sup>rd</sup>	2008	Burlington, VT	Judy Cardin	Wisconsin
94 <sup>th</sup>	2009	San Antonio, TX	Jack Kane	Montana
95 <sup>th</sup>	2010	St. Paul, MN	Randy Jennings	Tennessee
96 <sup>th</sup>	2011	Missoula, MT	Tim Tyson	Kansas
97 <sup>th</sup>	2012	Portland, ME	Kurt Floren	California
98 <sup>th</sup>	2013	Louisville, KY	Stephen Benjamin	North Carolina
99 <sup>th</sup>	2014	Detroit, MI	John Gaccione	New York
100 <sup>th</sup>	2015	Philadelphia, PA	Ronald Hayes	Missouri
101 <sup>st</sup>	2016	Denver, CO	Jerry Buendel	Washington
102 <sup>nd</sup>	2017	Pittsburgh, PA	Kristin Macey	California
103 <sup>rd</sup>	2018	Tulsa, OK	James Cassidy	Massachusetts

## Past Chairmen

## General Information

### PURPOSE

NCWM meetings are held throughout the year to develop the national standards that are adopted by NCWM and published in *NIST Handbooks 44, 130, and 133*. At the Annual Meeting, committees will conduct Open Hearings where all attendees can offer comments to the committees on items printed in the Committee Interim Reports. Following Open Hearings, the committees will convene in work sessions to prepare addendum sheets that modify their reports. Items given voting status by the committees will be presented during the Voting Sessions on Wednesday and Thursday. Active members in attendance may vote on committee recommendations to amend the national standards.

### SUPPORTING DOCUMENTS

Additional letters, presentations and data may have been part of the committee's consideration. Please refer to [www.ncwm.net/meetings/annual/publication-16](http://www.ncwm.net/meetings/annual/publication-16) to review these documents.

### ITEMS GROUPED INTO BLOCKS

The Committee may group related items into blocks to be considered as a group. This provides for more efficient open hearings and voting sessions since each item within a block is not presented individually.

### DESIGNATION OF ITEM STATUS

The Committee Interim Reports contain recommendations and information on items discussed at the 2018 NCWM Interim Meeting held January 21-24, 2018, in St. Pete Beach, Florida. These reports form the basis for conduct of the committee meetings. Each committee will address the items in its report during Open Hearings.

The status of each item contained in the Committee Interim Reports is designated as one of the following:

- **Voting Item:** The item is designated with a “**V**” to indicate the committee is making recommendations requiring a vote by the active members of NCWM. The recommended language to be voted on is in **bold face type**.
- **Informational Item:** The item is designated with an “**I**” to indicate the item is under consideration by the committee but not proposed for Voting.
- **Assigned Item:** The item is designated with an “**A**” to indicate the item has merit; however, the item was assigned to a task group or subcommittee of for further development and the committee will wait for a recommendation from that group before taking any further action on the item.
- **Developing Item:** The item is designated with a “**D**” to indicate an item has merit; however, the item was returned to the submitter or other designated party for further development before any action can be taken at the national level.
- **Withdrawn Item:** The item is designated with a “**W**” to indicate the item has been removed from consideration by the committee.

Some Voting Items are considered individually; others may be grouped in a consent calendar. Consent calendar items are Voting Items that the committee has assembled as a single Voting Item during their deliberation after the Open Hearings on the assumption that the items are without opposition and will not require discussion. The Voting Items that have been grouped into consent calendar items will be listed on the addendum sheets which are published during the week. Prior to adoption of the consent calendar, the committee will entertain any requests from the floor to remove specific items from the consent calendar to be discussed and voted upon individually.

Committees may change the status designation of agenda items (Developing, Informational, Voting, and Withdrawn) up until the report is adopted, except that items which are marked Developing, Informational or Withdrawn cannot be changed to Voting Status. Any change from the Committee Interim Report (as contained in this publication) or from what appears on the addendum sheets will be explained to the attendees prior to a motion and will be acted upon by the active members of NCWM prior to calling for the vote.

## **ADDENDUM SHEETS**

Modifications to the Committee Interim Reports will be documented in the form of addendum sheets prepared by the committees following the Open Hearings. The addendum sheets will be made available to attendees no later than 8:00 p.m. on Tuesday, July 17, 2018, in the Promenade Foyer of the Hyatt Regency Tulsa Hotel. Committee Interim Reports may be further modified as a result of actions taken by the committee or membership during the Voting Sessions on July 18-19, 2018.

## **VOTING SYSTEM**

All registered attendees may speak to the issues on the floor, both business and technical items. However, the adoption of final reports of committees on technical issues, as well as other technical issues, is to be decided by a formal vote of the active members in accordance with the following voting structures and procedures. Please see NCWM Bylaws at [www.ncwm.net/about/bylaws](http://www.ncwm.net/about/bylaws) for a complete description of the voting system.

### **House of State Representatives:**

This body is comprised of one active member from each state who is officially designated as its representative and is present and registered at the Annual Meeting. They shall vote on:

- all business issues relating to NCWM, Inc.
- technical questions before the Corporation, including reports and recommendations of all Standing Committees
- technical issues relating to weights and measures; technical handbooks; and legal metrology.

Members of this house are identified by a maroon name tag ribbon with the word “Representative.”

### **House of Delegates:**

This body is comprised of all other active members who are registered and present at the Annual Meeting and those not seated in the House of State Representatives. They shall vote on:

- all business issues relating to NCWM, Inc.
- technical questions before the Corporation, including reports and recommendations of all Standing Committees
- technical issues relating to weights and measures; technical handbooks; and legal metrology.

Members of this house are identified by a blue name tag ribbon with the word “Delegate.”



**House of General Membership:**

This body is comprised of associate and advisory members who are present and registered at the Annual Meeting. They shall vote on all business issues relating to NCWM, Inc.

**WRITTEN COMMENTS OR ORAL STATEMENTS**

Any person or organization wanting to provide a formal presentation during a committee session should make the request in writing to the Executive Director. Reasonable limitations on time allotted for presentations will be imposed. The process to request permission to give a presentation is available at:

[www.ncwm.net/meetings/annual/meeting-process](http://www.ncwm.net/meetings/annual/meeting-process). *Note: Only registered attendees may make presentations.*

National Conference on Weights and Measures  
Attn: Don Onwiler, Executive Director  
1135 M Street, Suite 110  
Lincoln, NE 68508  
(402) 434-4880  
[don.onwiler@ncwm.net](mailto:don.onwiler@ncwm.net)

**PARTICIPATION**

All sessions are open to registered attendees of the conference. If a committee must discuss any issue that involves proprietary information or other confidential material; that portion of the session dealing with the special issue may be closed if:

1. the NCWM Chairman or, in his absence, the Chairman-Elect approves;
2. the Executive Director is notified; and
3. an announcement of the closed meeting is posted on or near the door to the meeting session and at the registration desk.

If possible, the posting will be done at least a day prior to the planned closed session. Please note that a one-day notice will not be possible if a closed meeting is called on Sunday. Since participants may make their travel reservations to attend technical meetings scheduled for Sunday, every effort will be made to limit any required closed meetings to only part of Sunday.

**REPORTS**

There will not be a transcript made of the proceedings of the Annual Meeting. Each committee will prepare its annual report containing its recommendations based upon the presentations, discussions, and deliberations on all matters in its interim report that were addressed during the Annual Meeting. These reports will be published in the *Report of the 103<sup>rd</sup> Annual Meeting of the National Conference on Weights and Measures*, to be posted to NCWM website at [www.ncwm.net](http://www.ncwm.net). Electronic copies of the *Report of the 103<sup>rd</sup> Annual Meeting of the National Conference on Weights and Measures* will be distributed to all members of NCWM. Other interested parties may request a copy of the publication from the Executive Secretary.

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## **INTERIM MEETING**

NCWM Interim Meeting will be held at the Francis Marion Hotel, Charleston, South Carolina, January 13<sup>th</sup> – 16<sup>th</sup>, 2019.

## **UNITS OF MEASUREMENT**

In keeping with the provisions of the Omnibus Trade and Competitiveness Act of 1988, which establishes the metric system as the preferred system of measurement for commerce and trade, units of the metric system have been used in this document, except where industry has not yet converted from the inch-pound system. In some instances, submitted proposals quoted in the committee agendas may appear in inch-pound units only.