

**N C W M
PUBLICATION**

16

**COMMITTEE REPORTS
FOR THE 104th
ANNUAL MEETING**

Milwaukee, Wisconsin / July 14-18, 2019

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



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.

“Valued Traditions & New Innovations – Confidence in Every Transaction”

Brett Gurney, Chairman
Utah



Dear NCWM Members,

It is a great honor and pleasure to invite you to attend the 104th Annual Meeting of the National Conference on Weights and Measures. Our meeting will be held July 14-18, 2019 at the Hyatt Regency Milwaukee located at 333 W Kilbourn Avenue, Milwaukee, Wisconsin.

The theme this year is “*Valued Traditions & New Innovations – Confidence in Every Transaction*” and reflects the efforts NCWM is taking to ensure equity prevails in the marketplace. A focus of Weights and Measures is to assure consumers get what they paid for and that businesses get paid fairly for the goods and services they sell. Integrity of measurement continues to be important as new technology is developed. We must be proactive and work together as we face new challenges.

The agenda for this year’s meeting reflects the hard work and dedication of many of our stakeholders and partners. Important decisions will be made that impact United States and International consumers, retailers, wholesalers, manufacturers and regulatory programs.

Items that came out of our Interim Meeting were given a status and will be discussed. Take the opportunity to make an impact on important decisions that will be made. Listen, learn, speak, and build relationships that will help NCWM and your organization succeed. We will have an opportunity to vote on items at this meeting.

Enjoy networking opportunities at our special event at the Milwaukee Public Museum. Here you can experience the streets of old Milwaukee, a European Village, a Butterfly Garden, a 2-Story Costa Rican Rainforest, planetarium and more.

I want to thank each of you for your continued support for the NCWM, and I look forward to seeing you in Milwaukee.

Sincerely,

A handwritten signature in black ink that reads "Brett Gurney". The signature is written in a cursive, flowing style.

Brett Gurney
NCWM Chairman

Table of Contents

Title	Page
Schedule of Events	iii
Organization Chart	vii
Past Chairmen	xxi
General Information	GEN – 1
Purpose	GEN – 1
Supporting Documents	GEN – 1
Items Grouped into Blocks	GEN – 1
Designation of Item Status.....	GEN – 1
Addendum Sheets	GEN – 2
Voting System	GEN – 2
Written Comments or Oral Statements	GEN – 3
Participation	GEN – 3
Reports	GEN – 3
Interim Meeting	GEN – 4
Units of Measurement.....	GEN – 4
Board of Directors	BOD – 5
Laws and Regulations Committee	L&R – 49
Specifications and Tolerances Committee	S&T – 215
Professional Development Committee	PDC – 421
National Type Evaluation Program Committee	NTEP – 439
Nominating Committee	NOM – 467

Table of Contents

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.*

Saturday, July 13, 2019		Room
8:30 a.m. – 5:00 p.m.	Board of Directors Meeting	Vue East
Sunday, July 14, 2019		
7:30 a.m. – 9:00 a.m.	Coffee Service	Atrium
7:30 a.m. – 5:00 p.m.	Registration and Exhibits	Atrium
8:30 a.m. – 12:00 p.m.	Meter Manufacturer Association	Executive CD
9:00 a.m. – 10:15 a.m.	Safety Subcommittee	Milwaukee Room
9:00 a.m. – 11:30 a.m.	Cannabis Task Group	Executive AB
10:15 a.m. – 11:30 a.m.	Credit Card Skimmer Task Group	Gilpatrick (Lobby Level)
11:30 a.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 3:30 p.m.	Fuels and Lubricants Subcommittee	Executive CD
1:00 p.m. – 2:15 p.m.	POS Tare Task Group	Milwaukee Room
1:00 p.m. – 3:30 p.m.	Cannabis Task Group	Executive AB
2:15 p.m. – 3:30 p.m.	Packaging and Labeling Subcommittee	Gilpatrick (Lobby Level)
3:30 p.m. – 4:00 p.m.	Joint Committee Meeting	Regency Ballroom
4:00 p.m. – 5:00 p.m.	Agenda Review	
	Professional Development Committee	Milwaukee Room
	Specifications and Tolerances Committee	Executive CD
	Laws and Regulations Committee	Executive AB
	Board of Directors / NTEP Committee	Vue East
5:30 p.m. – 7:00 p.m.	Chairman's Reception	Vue North

Schedule of Events

Monday, July 15, 2019		Room
7:00 a.m. – 9:00 a.m.	Light Breakfast	Atrium
7:00 a.m. – 5:00 p.m.	Registration and Exhibits	Atrium
8:00 a.m. – 8:30 a.m.	New Attendee Orientation Mr. Chris Guay, Procter and Gamble	Regency Ballroom
8:30 a.m. – 5:00 p.m.	Official Session – Open Hearings Presiding Officer: Ms. Jane Zulkiewicz, Town of Barnstable, Massachusetts Professional Development Committee Specifications and Tolerances Committee Laws and Regulations Committee NTEP Committee Board of Directors	Regency Ballroom
12:00 p.m. – 1:30 p.m.	Lunch on Your Own	
1:30 p.m. – 5:00 p.m.	Official Session – Open Hearings Continued	Regency Ballroom
1:30 p.m. – 5:00 p.m.	Committee Work Sessions (To be announced) Professional Development Committee Specifications and Tolerances Committee Laws and Regulations Committee Board of Directors / NTEP Committee	Milwaukee Room Executive CD Executive AB Vue East

Tuesday, July 16, 2019

7:00 a.m. – 9:00 a.m.	Light Breakfast	Atrium
7:00 a.m. – 5:00 p.m.	Registration and Exhibits	Atrium
8:00 a.m. – 9:45 a.m.	Official Session – Open Hearings (continued as necessary) Presiding Officer: Mr. Doug Musick, Kansas	Regency Ballroom
9:45 a.m. – 10:00 a.m.	Break	
10:00 a.m. – 12:00 p.m.	General Session Pledge of Allegiance and Invocation Chaplain: Mr. Constantine Cotsoradis, Flint Hills Resources Welcome Address Speaker: Mr. Randy Romanski, Deputy Secretary Wisconsin Department of Agriculture, Trade and Consumer Protection President’s Address Dr. Walter Copan, NIST Director Chairman’s Address Mr. Brett Gurney, Utah Awards Ceremony	Regency Ballroom
12:00 p.m. – 1:30 p.m.	Lunch on Your Own	
1:00 p.m. – 4:00 p.m.	Field Trip: Pabst Mansion Tour <i>Exact time is dependent on which group you are in. Limited Space: First come / First served.</i>	
1:30 p.m. – 5:00 p.m.	Committee Work Sessions Professional Development Committee Specifications and Tolerances Committee Laws and Regulations Committee Board of Directors / NTEP Committee	Milwaukee Room Executive CD Executive AB Vue East
8:00 p.m.	Addendum Sheets Available	Atrium

Schedule of Events

Wednesday, July 17, 2019

7:00 a.m. – 9:00 a.m.	Light Breakfast	Atrium
7:00 a.m. – 3:00 p.m.	Registration and Exhibits	Atrium
8:00 a.m. – 9:00 a.m.	Associate Membership Committee	Regency Ballroom
9:00 a.m. – 12:00 p.m.	Regional Association Meetings	
	Central Weights and Measures Association	Executive AB
	Northeastern Weights and Measures Association	Executive CD
	Southern Weights and Measures Association	Milwaukee Room
	Western Weights and Measures Association	Gilpatrick (Lobby Level)
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 4:30 p.m.	Voting Session	Regency Ballroom
	Presiding Officer: Mr. Tim Chesser, Arkansas	
	Parliamentarian: Mr. Louis Straub, Fairbanks Scale, Inc.	
	Professional Development Committee	
	Specifications and Tolerances Committee	
	Laws and Regulations Committee	

6:00 p.m. – 9:30 p.m. **Special Event: Milwaukee Public Museum**

Experience the Streets of Old Milwaukee, a European Village, a 2-story Costa Rican Rainforest, the planetarium and more. We will have a non-traditional dinner with wonderful items being served throughout the exhibit areas. Attire is casual.

Meet in lower lobby, 1st floor. Buses depart at 5:50 p.m. The first buses will start making trips back to the hotel starting at 8:00 p.m. and will continue until 9:30 p.m.

Thursday, July 18, 2019

7:00 a.m. – 9:00 a.m.	Light Breakfast	Atrium
7:00 a.m. – 10:00 a.m.	Registration and Exhibits	Atrium
9:00 a.m. – 12:00 p.m.	Voting Session (continued as necessary)	Regency Ballroom
	Presiding Officer: Mr. Kevin Schnepf, California	
	Parliamentarian: Mr. Louis Straub, Fairbanks Scale, Inc.	
	NTEP Committee	
	Board of Directors	
	Nominating Committee	
	Closing Ceremony	Regency Ballroom
	Passing of the Gavel / New Chairman's Address	
	Benediction / Adjourn	

Organization Chart

NCWM Board of Directors			
Office	Name	Affiliation	Term Ends
Chairman	Brett Gurney	Utah	2019
Chairman-Elect	Craig VanBuren	Michigan	2019
Immediate Past Chair	James Cassidy	Massachusetts	2019
Treasurer	Raymond Johnson	New Mexico	2020
Active Membership – Northeastern	Jack Walsh	Town of Wellesley, Massachusetts	2019
Active Membership – Central	Ivan Hankins	Iowa	2020
Active Membership – Western	Mahesh Albuquerque	Colorado	2022
Active Membership – Southern	Hal Prince	Florida	2023
At-Large	Julie Quinn	Minnesota	2021
At-Large	Rebecca Richardson	MARC-IV Consulting	2023
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	Darrell Flocken	NCWM	NA
Measurement Canada Advisor	Carl Cotton	Measurement Canada	NA
National Type Evaluation Program Committee (NTEP)			
Office	Name	Affiliation	Term Ends
Committee Chair	James Cassidy	Massachusetts	2019
NEWMA Representative	Jack Walsh	Town of Wellesley, Massachusetts	2019
SWMA Representative	Hal Prince	Florida	2019
Upcoming Committee Chair	Brett Gurney	Utah	2020
Upcoming Committee Chair	Craig VanBuren	Michigan	2021
NTEP Administrator	Darrell Flocken	NCWM	NA
Finance Committee			
Office	Name	Affiliation	Term Ends
Committee Chair	Craig VanBuren	Michigan	2019
Nominated Chair-Elect	Hal Prince	Florida	2020
Treasurer	Raymond Johnson	New Mexico	2020
Associate Membership Representative	Christopher Guay	Procter and Gamble, Co.	2019
Executive Director	Don Onwiler	NCWM	NA

Organization Chart

Laws and Regulations Committee (L&R)			
Office	Name	Affiliation	Term Ends
Committee Chair	Michelle Wilson	Arizona	2019
Member	Ethan Bogren	Westchester County, New York	2020
Member	Joel Maddux	Virginia	2021
Member	John McGuire	New Jersey	2022
Member	Doug Rathbun	Illinois	2023
Associate Membership Representative	Prentiss Searles	American Petroleum Institute	2023
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
Professional Development Committee (PDC)			
Office	Name	Affiliation	Term Ends
Committee Chair	Gene Robertson	Mississippi	2019
Member	Marc Paquette	Vermont	2020
Member	Marco Mares	San Diego County, California	2021
Member	Jean Kliethermes	Missouri	2022
Member	Scott Ferguson	Michigan	2023
Associate Membership Representative	James Pettinato	FMC Technologies Measurement Solutions, Inc.	2023
Safety Liaison	Julie Quinn	Minnesota	NA
NIST Liaison	Tina Butcher	NIST, Office of Weights and Measures	NA
Certification Coordinator	Ross Andersen	Retired	NA
Certification Coordinator	Jerry Buendel	Retired	NA
Specifications and Tolerances Committee (S&T)			
Office	Name	Affiliation	Term Ends
Committee Chair	Rachelle Miller	Wisconsin	2020
Member	Loren Minnich	Kansas	2019
Member	Josh Nelson	Oregon	2021
Member	Brad Bachelder	Maine	2022
Member	Jason Glass	Kentucky	2023
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
Nominating Committee			
Office	Name	Affiliation	Term Ends
Committee Chair	James Cassidy	Massachusetts	2019
Member	Stephen Benjamin	North Carolina	2019
Member	Mark Coyne	City of Brockton, Massachusetts	2019
Member	Steven Harrington	Oregon	2019
Member	Ronald Hayes	Missouri	2019
Member	Kristin Macey	California	2019
Member	Ken Ramsburg	Maryland	2019

Organization Chart

Credentials Committee			
Office	Name	Affiliation	Term Ends
Committee Chair	Elaine Grillo	City of Boston, Massachusetts	2019
Member	David Aguayo	County of San Luis Obispo, California	2020
Member	Stuart Strnad	Texas	2021
Coordinator	Darrell Flocken	NCWM	NA
Appointive Officials			
Office	Name	Affiliation	Term Ends
Chaplain	Constantine Cotsoradis	Flint Hills Resources	2019
Parliamentarian	Louis Straub	Fairbanks Scale, Inc.	2019
Presiding Officer	Tim Chesser	Arkansas	2019
Presiding Officer	Doug Musick	Kansas	2019
Presiding Officer	Kevin Schnepf	California	2019
Presiding Officer	Jane Zulkiewicz	Town of Barnstable, Massachusetts	2019
Sergeant-at-Arms	Jacques Daniel	Wisconsin	2019
Sergeant-at-Arms	Greg Loreck	Wisconsin	2019
Associate Membership Committee			
Office	Name	Affiliation	Term Ends
Committee Chair	Mark Flint	ADM	2019
Vice-Chair	Bob Wiese	Northwest Tank and Environmental Services	2019
Secretary / Treasurer	Ron Gibson	Seraphin Test Measure	2019
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
Member	David Calix	NCR	2023
Member	Bob Murnane	Seraphin Test Measure	2023
Packaging and Labeling Subcommittee			
Office	Name	Affiliation	
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	
Private Sector Member	Heidi Robinson	Publix Super Markets	

Organization Chart

Fuels and Lubricants Subcommittee		
Office	Name	Affiliation
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	John Hayes	Tennessee
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	Teresa Alleman	National Renewable Energy Laboratory
Private Sector Member	Matt Bjornson	Bjornson Oil Company
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	Scott Fenwick	National Biodiesel Board
Private Sector Member	Rick Fragnito	Shell
Private Sector Member	Jennifer Green	CITGO Petroleum Corporation
Private Sector Member	Philip Guillemette	Flint Hills Resources, LP
Private Sector Member	John Harkins	Energy Transfer
Private Sector Member	Marilyn Herman	Herman and Associates
Private Sector Member	Cal Hodge	A 2nd Opinion, Inc.
Private Sector Member	Jason Holmes	BASF Corporation
Private Sector Member	William Hornbach	Chevron Global Downstream, LLC
Private Sector Member	Joanna Johnson	Automotive Oil Exchange Association

Organization Chart

Private Sector Member	Brian Kernke	Loves Travel Stops
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	Beverly Michels	BP Products
Private Sector Member	Kristi Moore	KMoore Consulting, LLC
Private Sector Member	Manuch Nikanjam	Chevron Global Downstream, LLC
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	Matthew Sheehan	Chevron USA, Inc.
Private Sector Member	Dr. Prasad Tumati	Haltermann Solutions
Private Sector Member	Marie Valentine	Toyota - TEMA - TTC
Private Sector Member	Steve Vander Griend	ICM, Inc.
Private Sector Member	Lilla Voros	The Lubrizol Corp.
Promotional Tool Kit Task Group		
Office	Name	Affiliation
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
Credit Card Skimmer Task Group		
Office	Name	Affiliation
Chair	Hal Prince	Florida
Public Sector Member	James Cassidy	Massachusetts
Public Sector Member	Mike Harrington	Iowa
Public Sector Member	Eric Janke	South Dakota
Public Sector Member	Joel Maddux	Virginia
Public Sector Member	John McGuire	New Jersey
Public Sector Member	Mike Sikula	New York
Public Sector Member	Craig VanBuren	Michigan
Public Sector Member	Scott Wagner	Colorado
Public Sector Member	Michelle Wilson	Arizona
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

Safety Subcommittee		
Office	Name	Affiliation
Committee 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	Sprague Ackley	Honeywell
Private Sector Member	Tisha Arriaga	Marathon Petroleum, LLC
Private Sector Member	Bill Callaway	Crompco
Private Sector Member	Remy Cano	Northwest Tank and Environmental Services, Inc.
Private Sector Member	Brad Fryburger	Southern II Scale
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.
Cannabis Task Group		
Office	Name	Affiliation
Chair	James Cassidy	Massachusetts
Public Sector Member	Brad Bachelder	Maine
Public Sector Member	Loren Kipp Blauer	Nevada
Public Sector Member	Stacy Carlsen	Marin County, California
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	Hollis Glenn	Colorado
Public Sector Member	Mike Gower	Nevada
Public Sector Member	Gabriel Gowman	Riverside County, California
Public Sector Member	Elaine Grillo	City of Boston, Massachusetts
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	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

Organization Chart

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	Julie Quinn	Minnesota
Public Sector Member	Ken Ramsburg	Maryland
Public Sector Member	William Rigby	Utah
Public Sector Member	Kate Smetana	Colorado
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	James Willis	New York
Public Sector Member	Michelle Wilson	Arizona
Public Sector Member	John Young	Yolo County, California
Private Sector Member	Andy Brassington	Evergreen Herbal
Private Sector Member	David Calix	NCR
Private Sector Member	Alexander Cook	Wellness Connection of Maine
Private Sector Member	Brian Duncan	ECRS
Private Sector Member	Eric Golden	Cardinal Scale Manufacturing, Co.
Private Sector Member	Christopher Guay	Procter and Gamble, Co.
Private Sector Member	Richard Guild	The Scale People, Inc.
Private Sector Member	George Hatzimanuel	Ohaus Corporation
Private Sector Member	Joanna L. Johnson	Johnson Policy Associates, Inc.
Private Sector Member	Charles Rutherford	CPR Squared, Inc.
Private Sector Member	Richard Shipman	Rice Lake Weighing Systems, Inc.
Weigh-In-Motion Task Group		
Office	Name	Affiliation
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	Scott Davidson	Mettler-Toledo, LLC
Private Sector Member	James Faas	YRC Freight
Private Sector Member	Brad Fryburger	Southern II Scale
Private Sector Member	Eric Golden	Cardinal Scale Manufacturing, Co.

Organization Chart

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
Point-Of-Sale System Tare Task Group		
Office	Name	Affiliation
Chair	Loren Minnich	Kansas
NTEP Technical Advisor	Darrell Flocken	NCWM
NIST Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
Public Sector Member	Mark Demings	Utah
Public Sector Member	Mike Peeler	New Jersey
Public Sector Member	Ken Ramsburg	Maryland
Private Sector Member	Gary Benjamin	NCR Corporation
Private Sector Member	Scott Henry	Zebra Technologies
Private Sector Member	Heidi Robinson	Publix Super Markets
Private Sector Member	Elizabeth Tansing	Food Marketing Institute
NTEP EVSE Work Group		
Office	Name	Affiliation
Chair	Andrei Moldoveanu	NEMA
NTEP Technical Advisor	Darrell Flocken	NCWM
NIST Technical Advisor	Juana Williams	NIST, Office of Weights and Measures
Public Sector Member	Tom Buck	Ohio
Public Sector Member	John Roach	California
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.

Multiple Dimension Measuring Device Work Group		
Office	Name	Affiliation
Chair	Chris Senneff	Rice Lake Weighing Systems, Inc.
NTEP Technical Advisor	Darrell Flocken	NCWM
NIST 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	Jeff Gibson	Ohio
Public Sector Member	Mike Kelley	Ohio
Public Sector Member	Pascal Turgeon	Measurement Canada, Policy/Regulations Group
Private Sector Member	Sprague Ackley	Honeywell
Private Sector Member	Bruce Budinger	AOA Xinetics/NGC
Private Sector Member	Jeff Cooper	National Motor Freight Traffic Association
Private Sector Member	Bill Danderand	FedEx
Private Sector Member	Scott Davidson	Mettler-Toledo, LLC
Private Sector Member	Michael Eichenberg	FreightSnap, LLC
Private Sector Member	James Faas	YRC Freight
Private Sector Member	Scott Henry	Zebra Technologies
Private Sector Member	Robert Kennington	Cubiscan
Private Sector Member	Scott Murchison	Zebra Technologies
Private Sector Member	Don Newell	Newell Enterprises, LLC
Private Sector Member	Sameer Parmar	SICK, Inc.
Private Sector Member	Tony Romeo	Datalogic
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
NTEP Belt-Conveyor Scale Sector		
Office	Name	Affiliation
Chair	Peter Sirrico	Thayer Scale / Hyer Industries
NTEP Technical Advisor	Darrell Flocken	NCWM
NIST 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

Organization Chart

NTEP Grain Analyzer Sector		
Office	Name	Affiliation
Chair	Karl Cunningham	Illinois
NTEP Technical Advisor	Darrell Flocken	NCWM
NIST 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
Public Sector Member	Loren Minnich	Kansas
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	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.
NTEP Measuring Sector		
Office	Name	Affiliation
Chair	Michael Keilty	Endress + Hauser Flowtec AG, USA
NTEP Technical Advisor	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	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	John Hathaway	Murray Equipment
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
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	Brent Price	Gilbarco, Inc.

Organization Chart

Private Sector Member	Richard Tucker	RL Tucker Consulting, LLC
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Organization Chart

NTEP Software Sector		
Office	Name	Affiliation
Chair	James Pettinato	FMC Technologies Measurement Solutions, Inc.
NTEP Technical Advisor	Darrell Flocken	NCWM
Technical Advisor	Vere Miller	Mettler-Toledo, LLC
Secretary	Teri Gulke	Liquid Controls, LLC
Public Sector Member	Andrei Brezoica	California
Public Sector Member	Tom Buck	Ohio
Public Sector Member	Luciano Burtini	Measurement Canada
Public Sector Member	Jeff Gibson	Ohio
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	Bruce Budinger	AOA Xinetics/NGC
Private Sector Member	Kevin Detert	Avery Weigh-Tronix
Private Sector Member	Brian Duncan	ECRS
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	Ossid LLC
Private Sector Member	Kraig Wooddell	Hobart

NTEP Weighing Sector		
Office	Name	Affiliation
Chair	Rob Upright	VPG Transducers
NTEP Technical Advisor	Darrell Flocken	NCWM
NIST Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
Advisory Member	Robert Feezor	Retired
Public Sector Member	Tom Buck	Ohio
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	Loren Minnich	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	Cary Ainsworth	Tufner Weighing Systems
Private Sector Member	Steven Beitzel	Systems Associates, Inc.
Private Sector Member	Neil Copley	Thurman Scale Co.
Private Sector Member	Bill Danderand	FedEx
Private Sector Member	Brian Duncan	ECRS
Private Sector Member	Mitchell Eyles	Flintec, Inc.
Private Sector Member	Brad Fryburger	Southern II Scale
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	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.
Private Sector Member	John Wind	Ossid LLC

Organization Chart

Central Weights and Measures Association (CWMA) www.cwma.net						
States	Illinois Indiana Iowa	Kansas Michigan Minnesota	Missouri Nebraska North Dakota	Ohio South Dakota Wisconsin		
Contact	Sherry Turvey Kansas Department of Agriculture			(785) 564-6682 sherry.turvey@ks.gov		
Interim Meeting	October 21 – 23, 2019			Springfield, Illinois		
Annual Meeting	May 18 – 20, 2020			Wisconsin Dells, Wisconsin		
Interim Meeting	2020, TBD			TBD		
Northeastern Weights and Measures Association (NEWMA) www.newma.us						
States	Connecticut Maine Massachusetts	New Hampshire New Jersey New York	Pennsylvania Puerto Rico Rhode Island	Vermont		
Contact	James Cassidy Commonwealth of Massachusetts			(617) 727-3480 james.cassidy@mass.gov		
Interim Meeting	2019, TBD			TBD		
Annual Meeting	May 4 – 7, 2020			Saratoga Springs, New York		
Interim Meeting	2020, TBD			TBD		
Southern Weights and Measures Association (SWMA) www.swma.org						
States	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
Contact	Ed Coleman Tennessee Department of Agriculture			(615) 837-1544 ed.coleman@tn.gov		
Annual Meeting	October 6 – 9, 2019			Knoxville, Tennessee		
Western Weights and Measures Association (WWMA) www.westernwma.org						
States	Alaska Arizona California	Colorado Hawaii Idaho	Montana Nevada New Mexico	Oregon Utah Washington	Wyoming	
Contact	Brett Gurney Utah Department of Agriculture & Food			(801) 538-7158 bgurney@utah.gov		
Annual Meeting	September 8 – 12, 2019			Park City, Utah		

Past Chairmen

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

Past Chairmen

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

Past Chairmen

Conference	Year	Location	Chairman	Affiliation
92 nd	2007	Salt Lake City, UT	Michael Cleary	California
93 rd	2008	Burlington, VT	Judy Cardin	Wisconsin
94 th	2009	San Antonio, TX	Jack Kane	Montana
95 th	2010	St. Paul, MN	Randy Jennings	Tennessee
96 th	2011	Missoula, MT	Tim Tyson	Kansas
97 th	2012	Portland, ME	Kurt Floren	California
98 th	2013	Louisville, KY	Stephen Benjamin	North Carolina
99 th	2014	Detroit, MI	John Gaccione	New York
100 th	2015	Philadelphia, PA	Ronald Hayes	Missouri
101 st	2016	Denver, CO	Jerry Buendel	Washington
102 nd	2017	Pittsburgh, PA	Kristin Macey	California
103 rd	2018	Tulsa, OK	James Cassidy	Massachusetts
104 th	2019	Milwaukee, WI	Brett Gurney	Utah

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

General Information

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 16, 2019, in the Atrium of the Hyatt Regency Milwaukee 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 17-18, 2019.

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 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. *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

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 104th Annual Meeting of the National Conference on Weights and Measures*, to be posted to NCWM website at www.ncwm.net. Electronic copies of the *Report of the 104th 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.

National Institute of Standards and Technology
Attn: Dr. Douglas Olson, Chief
100 Bureau Drive
Gaithersburg, MD 20899-2600
(301) 975-2956, douglas.olson@nist.gov

General Information

INTERIM MEETING

The NCWM Interim Meeting will be held at:
The Mission Inn Hotel & Spa in Riverside California / January 21 – 24, 2020

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.