

**N C W M
PUBLICATION**

15

**I N T E R I M
MEETING AGENDA**

San Diego, CA / January 10-13, 2016

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 Interim 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.

Strengthening a Progressive Organization

Jerry Buendel, Chairman
Washington



Dear Friends,

Welcome to the 2016 NCWM Interim Meeting and the beautiful City of San Diego. The Westin is located in the historic Gaslamp Quarter and is within easy walking distance of great restaurants, entertainment and a wide variety of shopping.

San Diego has a long rich history. There is evidence of human settlement in the area as far back as 20,000 years ago. In 1542 the Portuguese explorer Juan Rodriguez Cabrillo sailed into San Diego Bay and claimed the area for Spain. In May of 1769, the San Diego Presidio and San Diego Mission were established near present day Old Town. The presidio and mission, the first in a chain of twenty-one missions located along the California coast, was the base of operations for the colonization of California. San Diego is now home to universities, military facilities, the San Diego Zoo, corporations, professional sports teams and over 3.1 million people.

NCWM's Interim Meetings provide an opportunity to discuss proposals, learn about emerging issues and network. As you may know the Interim meeting provides a forum for regulators, industry representatives and other interested groups to present recommended language, data, reports and testimony that aid in setting agenda items for voting or further development. Task groups, steering committees and other committees meet during the conference to work on issues and attend to conference business and operational tasks. I ask that you take time review Publication 15, attend the meetings and participate in the hearings.

You will notice significant changes to Publication 15. Your feedback and survey responses after the 100th Annual Meeting indicated that the book was too large and difficult to use so we are trying something new. The supporting information previously printed as appendices is now posted on the NCWM website with the other meeting documents. A new appendix has been created for the Specifications and Tolerances Committee and the Laws and Regulations Committee containing all of the background and discussion for each agenda item. This simplified agenda format will be easier to navigate while reducing printing costs. Executive Director Don Onwiler will explain the changes at the start of the Interim Meeting.

In keeping with the theme of NCWM - Strengthening a Progressive Organization, the Board of Directors will appoint a small committee and provide specific tasking to examine NCWM's process for developing proposals, improving our meetings and speeding up decisions. We'll keep you informed and ask for your input through the newsletter and during our national and regional conferences as we make progress.

Thank you all for your efforts and your participation in the important work that we do. I look forward to seeing you and wish you safe travels.

Sincerely,

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

Jerry Buendel
NCWM Chair

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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.*

Friday, January 8, 2016

8:30 a.m. – 5:00 p.m. NCWM Board of Directors Meeting Del Mar

Saturday, January 9, 2016

8:30 a.m. – 5:00 p.m. NCWM Board of Directors Meeting Del Mar

Sunday, January 10, 2016

7:30 a.m. – 9:00 a.m.	Coffee Service	Garden Terrace
7:30 a.m. – 5:00 p.m.	Registration	San Diego Foyer
7:30 a.m. – 5:00 p.m.	Exhibits	Harbor Foyer
8:00 a.m. – 11:30 a.m.	Meter Manufacturers Association	Coronado
9:00 a.m. – 11:30 a.m.	Fuels and Lubricants Subcommittee	Harbor
9:00 a.m. – 11:30 a.m.	Promotional Toolkit Task Group	Balboa
9:00 a.m. – 11:30 a.m.	Transportation Network System Forum	Del Mar
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 1:30 p.m.	Joint Meeting – All Standing Committees	San Diego Ballroom
1:30 p.m. – 4:00 p.m.	Moisture Loss Task Group	Balboa
1:30 p.m. – 4:00 p.m.	Multipoint-Calibration Task Group	Coronado
1:30 p.m. – 4:00 p.m.	Packaging and Labeling Subcommittee	Harbor
2:30 p.m. – 4:00 p.m.	Transportation Network System Forum	Del Mar
4:00 p.m. – 5:00 p.m.	Standing Committee’s Agenda Review	
	Laws and Regulations Committee	Harbor
	Specifications and Tolerances Committee	Coronado
	Professional Development Committee	Balboa
	Board of Directors / NTEP Committee	Del Mar
5:30 p.m. – 7:00 p.m.	Chairman’s Reception	Garden Terrace

Monday, January 11, 2016

7:30 a.m. – 9:00 a.m.	Light Breakfast	Garden Terrace
7:30 a.m. – 5:00 p.m.	Registration	San Diego Foyer
7:30 a.m. – 5:00 p.m.	Exhibits	Harbor Foyer

2016 Interim Schedule of Events

8:00 a.m. – 5:00 p.m.	Nominating Committee	La Jolla
8:30 a.m. – 12:00 p.m.	Official Session – Open Hearings Presentation by the Packaging and Labeling Subcommittee Laws and Regulations Committee Specifications and Tolerances Committee Professional Development Committee Board of Directors NTEP Committee	San Diego Ballroom
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 5:00 p.m.	Open Hearings Continue	San Diego Ballroom

Tuesday, January 12, 2016

7:00 a.m. – 8:00 a.m.	Associate Membership Committee	Del Mar
7:30 a.m. – 9:00 a.m.	Light Breakfast	Garden Terrace
7:30 a.m. – 5:00 p.m.	Registration	San Diego Foyer
7:30 a.m. – 5:00 p.m.	Exhibits	Harbor Foyer
8:30 a.m. – 12:00 p.m.	Official Session – Open Hearings Continue	San Diego Ballroom
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 5:00 p.m.	Committee Work Sessions Laws and Regulations Committee Specifications and Tolerances Committee Professional Development Committee Board of Directors NTEP Committee	Harbor Coronado Balboa Del Mar Del Mar

Wednesday, January 13, 2016

7:30 a.m. – 9:00 a.m.	Light Breakfast	Garden Terrace
7:30 a.m. – 12:00 p.m.	Registration	San Diego Foyer
7:30 a.m. – 12:00 p.m.	Exhibits	Harbor Foyer
9:00 a.m. – 10:45 a.m.	Panel Discussion: Credit Card Skimming Devices Matthew Curran, Florida Craig VanBuren, Michigan TBD: United States Secret Service TBD: Federal Bureau of Investigation	San Diego Ballroom
11:00 a.m. – 12:00 p.m.	Joint Meeting – All Standing Committees	San Diego Ballroom

2015 - 2016 Organizational Chart

NCWM Board of Directors (BOD)

Office	Name	Affiliation	Term Ends
Chairman	Jerry Buendel	Washington	2016
Chairman-Elect	Kristin Macey	California	2016
NTEP Committee Chair	Ronald Hayes	Missouri	2016
Treasurer	Raymond Johnson	New Mexico	2016
Active Membership – Western	Brett Gurney	Utah	2017
Active Membership – Southern	Kenneth Ramsburg	Maryland	2018
Active Membership – Northeastern	James Cassidy	City of Cambridge, Massachusetts	2019
Active Membership – Central	Craig VanBuren	Michigan	2020
At-Large	Chuck Corr	Archer Daniels Midland Company	2018
At-Large	Steve Giguere	Maine	2016
Associate Membership	Christopher Guay	Procter and Gamble, Co.	2016
Honorary NCWM President	Dr. Willie May	NIST Director	NA
Executive Secretary	Carol Hockert	NIST, Office of Weights and Measures	NA
Executive Director	Don Onwiler	NCWM	NA
Board of Directors Advisor	Carl Cotton	Measurement Canada	NA
NTEP Administrator	Jim Truex	NCWM	NA

National Type Evaluation Program (NTEP)

Office	Name	Affiliation	Term Ends
Committee Chair	Ronald Hayes	Missouri	2016
Member	Jerry Buendel	Washington	2017
Member	Kristin Macey	California	2018
Member	Kenneth Ramsburg	Maryland	2018
Member	James Cassidy	Massachusetts	2019
NTEP Administrator	Jim Truex	NCWM	NA

Finance Committee

Office	Name	Affiliation	Term Ends
Committee Chair	Kristin Macey	California	2016
Nominated Chair-Elect	TBD		
Member	Raymond Johnson	New Mexico	2016
Member	Christopher Guay	Procter and Gamble, Co.	2016
Executive Director	Don Onwiler	NCWM	NA

Laws and Regulations Committee (L&R)

Office	Name	Affiliation	Term Ends
Committee Chair	Richard Lewis	Georgia	2016
Member	Louis Sakin	Towns of Hopkinton/Northbridge, Massachusetts	2017
Member	John Albert	Missouri	2018
Member	Ha Dang	San Diego, California	2019
Member	Ethan Bogren	Westchester County, New York	2020
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

Specifications and Tolerances Committee (S&T)

Office	Name	Affiliation	Term Ends
Committee Chair	Mahesh Albuquerque	Colorado	2016
Member	Jane Zulkiewicz	Town of Barnstable, Massachusetts	2017
Member	Matthew Curran	Florida	2018
Member	Ivan Hankins	Iowa	2019
Member	Rachelle Miller	Wisconsin	2020
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

Professional Development Committee (PDC)

Office	Name	Affiliation	Term Ends
Committee Chair	Angela Godwin	Ventura County, California	2016
Member	Stacy Carlsen	Marin County, California	2017
Member	Julie Quinn	Minnesota	2018
Member	Doug Killingsworth	Georgia	2019
Member	Cheryl Ayer	New Hampshire	2020
Associate Membership Representative	Richard Shipman	Rice Lake Weighing Systems, Inc.	2018
Safety Liaison	TBD		NA
NIST Liaison	Tina Butcher	NIST, Office of Weights and Measures	NA
Certification Coordinator	Ross Andersen	Retired	NA

Nominating Committee

Office	Name	Affiliation	Term Ends
Committee Chair	Ronald Hayes	Missouri	2016
Member	John Gaccione	Westchester County, New York	2016
Member	Stephen Benjamin	North Carolina	2016
Member	Kurt Floren	Los Angeles County, California	2016
Member	Randy Jennings	Tennessee	2016
Member	Joe Gomez	New Mexico	2016
Member	Charles Carroll	Massachusetts	2016

Credentials Committee

Office	Name	Affiliation	Term Ends
Committee Chair	Fran Elson-Houston	Ohio	2016
Member	Matt Maiten	Santa Barbara County, California	2017
Member	Lori Jacobson	South Dakota	2018
Coordinator	Darrell Flocken	NCWM	NA

Appointive Officials

Office	Name	Affiliation	Term Ends
Chaplain	Constantine Cotsoradis	Flint Hills Resources	2016
Parliamentarian	Louis Straub	Fairbanks Scale, Inc.	2016
Presiding Officer	Laurence Nolan	Los Angeles County, California	2016
Presiding Officer	Jack Walsh	Town of Wellesley, Massachusetts	2016
Presiding Officer	Tim Chesser	Arkansas	2016
Presiding Officer	Steve Harrington	Oregon	2016
Sergeant-at-Arms	TBD		2016
Sergeant-at-Arms	TBD		2016

Associate Membership Committee (AMC)

Office	Name	Affiliation	Term Ends
Committee Chair	David Calix	NCR Corporation	2016
Vice-Chair	Richard Shipman	Rice Lake Weighing Systems, Inc.	2016
Secretary / Treasurer	Bill Callaway	Crompco	2016
Member	David Calix	NCR Corporation	2018
Member	Bill Callaway	Crompco	2018
Member	Robert Murnane, Jr.	Seraphin Test Measure	2018
Member	Paul A. Lewis, Sr.	Rice Lake Weighing Systems, Inc.	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

Fuels and Lubricants Subcommittee (FALS)		
Office	Name	Affiliation
Committee Chair	Matthew Curran	Florida
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	Kenneth Butcher	NIST, Office of Weights and Measures
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	Stephen Benjamin	North Carolina
Public Sector Member	Kristin Macey	California
Public Sector Member	Doug Rathbun	Illinois
Public Sector Member	Bill Striejewske	Nevada
Public Sector Member	Timothy White	Michigan
Public Sector Member	Michelle Wilson	Arizona
Private Sector Member	Bill Cannella	Chevron Global Downstream, LLC
Private Sector Member	Chuck Corr	Archer Daniels Midland Company
Private Sector Member	Kelly Davis	Renewable Fuels Association
Private Sector Member	Dayne Delahoussaye	Neste Oil
Private Sector Member	Stan Dempsey	Colorado Petroleum Association
Private Sector Member	Ed Dougherty	Sunoco, Inc.
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, Inc.
Private Sector Member	Marilyn Herman	Herman and Associates
Private Sector Member	Joanna Johnson	Automotive Oil Exchange Association
Private Sector Member	Patrick Kelly	American Petroleum Institute
Private Sector Member	David A. Kovach	BP Products
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	James McGetrick	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	Prentiss Searles	American Petroleum Institute
Private Sector Member	Jenny Sigelko	Volkswagen Group of America
Private Sector Member	Brad Stotler	NATSO
Private Sector Member	William Studzinski	General Motors – Powertrain Division
Private Sector Member	Rob Underwood	Petroleum Marketers Association of America
Private Sector Member	Marie Valentine	Toyota - TEMA - TTC

Packaging and Labeling Subcommittee (PALS)

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

Natural Gas Steering Committee

Office	Name	Affiliation
Committee Chair	Ethan Bogren	Westchester County, New York
Vice-Chair	Raymond Johnson	New Mexico
NIST Technical Advisor	Juana Williams	NIST, Office of Weights and Measures
Public Sector – Central	Ronald Hayes	Missouri
Public Sector – Southern	Matthew Curran	Florida
Public Sector – Western	Mahesh Albuquerque	Colorado
Public Sector Member	G. Diane Lee	NIST, Office of Weights and Measures
Private Sector Member	Jeffrey L. Clarke	NGV America
Private Sector Member	Gordon Johnson	Gilbarco, Inc.
Private Sector Member	Dmitri Karimov	Liquid Controls, LLC
Private Sector Member	Randy Moses	Wayne Fueling Systems
Private Sector Member	Prentiss Searles	American Petroleum Institute

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
Private Sector Member	John Hughes	Rice Lake Weighing Systems, Inc.

Organometallics Task Group

Office	Name	Affiliation
Chair	Randy Jennings	Tennessee
Public Sector Member	Ronald Hayes	Missouri
Public Sector Member	Bill Striejewski	Nevada
Private Sector Member	Marilyn Herman	Herman and Associates
Private Sector Member	Jeff Jetter	Honda R&D Americas, Inc.
Private Sector Member	Russ Lewis	Marathon Petroleum
Private Sector Member	James McGetrick	BP Products
Private Sector Member	Kristy Moore	Renewable Fuels Foundation
Private Sector Member	Derek Regal	Tesoro Chemical
Private Sector Member	Jenny Sigelko	Volkswagen Group of America

Private Sector Member	Val Ughetta	Alliance of Automobile Manufacturers
Meat, Poultry, Fish, and Seafood Method of Sale Task Group		
Office	Name	Affiliation
Co-Chair	David Sefcik	NIST, Office of Weights and Measures
Co-Chair	Lisa Warfield	NIST, Office of Weights and Measures
Public Sector Member	Stephen Benjamin	North Carolina
Public Sector Member	Charles Carroll	Massachusetts
Public Sector Member	Fran Elson-Houston	Ohio
Public Sector Member	Kurt Floren	Los Angeles County, California
Public Sector Member	Roger Frazier	Arkansas
Public Sector Member	Jason Glass	Kentucky
Public Sector Member	Brett Gurney	Utah
Public Sector Member	Milton Hargrave	Virginia
Public Sector Member	Ryanne Hartman	Michigan
Public Sector Member	Lori Jacobson	South Dakota
Public Sector Member	Hal Prince	Florida
Public Sector Member	Louis Sakin	Towns of Hopkinton/Northbridge, Massachusetts
Public Sector Member	Ken Tichota	Nebraska
Public Sector Member	Phillip Wright	Texas
Private Sector Member	Dave Davis	Utah Food Industry Association
Private Sector Member	Linda Doherty	New Jersey Food Council
Private Sector Member	Eric Hardin	The Fresh Market, Inc.
Private Sector Member	Vincent Orr	Whole Foods Market
Private Sector Member	Audrey Patterson	King Williams and Gleason LLP
Private Sector Member	Michael Roberson	Publix Supermarkets
Private Sector Member	Kevin Schneider	Giant Food
Private Sector Member	Elizabeth Tansing	Food Marketing Institute

Multiple Dimensions Measuring Devices Work Group		
Office	Name	Affiliation
Chair	Robert Kennington	Quantronix, Inc.
Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Public Sector Member	Tom Buck	Ohio
Public Sector Member	Fran Elson-Houston	Ohio
Public Sector Member	Justin Rae	Measurement Canada
Public Sector Member	Isabelle Tremblay	Measurement Canada
Public Sector Member	Pascal Turgeon	Measurement Canada, Policy/Regulations Group
Private Sector Member	Sprague Ackley	Honeywell
Private Sector Member	Scott Davidson	Mettler-Toledo, LLC
Private Sector Member	Michael Eichenberg	FreightSnap, LLC
Private Sector Member	Scott Henry	Zebra Technologies
Private Sector Member	Uwe Mohr	Vitronic
Private Sector Member	Don Newell	National Motor Freight Traffic Association
Private Sector Member	Jack Pangrazio	LTS Scale Company, LLC
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	Russ Vires	Mettler-Toledo, LLC
Private Sector Member	Scott Wigginton	United Parcel Service

NTEP Belt-Conveyor Sector

Office	Name	Affiliation
Chair	Peter SIRRICO	Thayer Scale / Hyer Industries
Technical Advisor	John Barton	NIST, Office of Weights and Measures
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Zacharias Tripoulas	Maryland
Public Sector Member	Thomas Vormittag	Nevada
Private Sector Member	Rafael Jimenez	Association of American Railroads Transportation Technology Center, Inc.
Private Sector Member	Jason Kukachka	Thermo Fisher Scientific

NTEP Grain Analyzer Sector

Office	Name	Affiliation
Chair	Karl Cunningham	Illinois
Technical Advisor	G. Diane Lee	NIST, Office of Weights and Measures
Advisory Member	Cassie Eigenmann	Retired
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
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.

NTEP Measuring Sector		
Office	Name	Affiliation
Chair	Michael Keilty	Endress + Hauser Flowtec AG, USA
Technical Advisor	Clark Cooney	California Division of Measurement Standards
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
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	William Cooper	Tuthill Transfer Systems
Private Sector Member	Constantine Cotsoradis	Flint Hills Resources
Private Sector Member	Ronnell Gallon	Zenner Performance Meters, Inc.
Private Sector Member	Paul Glowacki	Murray Equipment, Inc.
Private Sector Member	Gordon Johnson	Gilbarco, Inc.
Private Sector Member	Dmitri Karimov	Liquid Controls, LLC
Private Sector Member	Yefim Katselnik	Wayne Fueling Systems
Private Sector Member	Peter Kucmas	KROHNE
Private Sector Member	Douglas Long	RDM Industrial Electronics
Private Sector Member	Andrew MacAllister	Daniel Measurement and Control
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	Donald Mundorff	Badger Meter Scottsdale
Private Sector Member	Andre Noel	Neptune Technology Group, Inc.
Private Sector Member	Christopher (Adam) Oldham	Gilbarco, Inc.
Private Sector Member	Johnny Parrish	Brodie International
Private Sector Member	Richard Tucker	RL Tucker Consulting, LLC

NTEP Software Sector		
Office	Name	Affiliation
Chair	James Pettinato	FMC Technologies Measurement Solutions, Inc.
Secretary	Teri Gulke	Liquid Controls, LLC
Technical Advisor	Doug Bliss	Mettler-Toledo, LLC
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
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	Edward Payne	Maryland
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	Kevin Detert	Avery Weigh-Tronix
Private Sector Member	Andre Elle	Endress + Hauser Flowtec AG
Private Sector Member	Andrew Gell	Foss North America
Private Sector Member	Keith Harper	Gencor Industries, Inc.
Private Sector Member	Tony Herrin	Cardinal Scale Manufacturing Co.
Private Sector Member	Paul A. Lewis, Sr.	Rice Lake Weighing Systems, Inc.
Private Sector Member	Dominic Meyer	KSi 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

NTEP Weighing Sector		
Office	Name	Affiliation
Chair	Rob Upright	Vishay Transducers
Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
Advisory Member	Robert Feezor	Retired
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
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	Edward Payne	Maryland
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	Hayden Cornish	Schenck Process
Private Sector Member	Mitchell Eyles	Flintec, 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	Rafael Jimenez	Association of American Railroads Transportation Technology Center, Inc.
Private Sector Member	Paul A. Lewis, Sr.	Rice Lake Weighing Systems, Inc.
Private Sector Member	L. Edward Luthy	Schenck Process Transport N.A.
Private Sector Member	Louis Straub	Fairbanks Scales, Inc.
Private Sector Member	Russell Vires	Mettler-Toledo, LLC
Private Sector Member	Jerry Wang	A&D Engineering, Inc.
Private Sector Member	Walter Young	Emery Winslow Scale Company

Central Weights and Measures Association (CWMA) www.cwma.net

States		Contact	Meetings
<ul style="list-style-type: none"> • Illinois • Indiana • Iowa • Kansas • Michigan • Minnesota 	<ul style="list-style-type: none"> • Missouri • Nebraska • North Dakota • Ohio • South Dakota • Wisconsin 	Sherry Turvey Kansas Department of Agriculture Phone: (785) 564-6681 Email: sherry.turvey@kda.ks.gov	Annual Meeting: May 23-26, 2016 Rapid City, SD Interim Meeting: TBD St. Charles, MO

Northeastern Weights and Measures Association (NEWMA) www.newma.us

States		Contact	Meetings
<ul style="list-style-type: none"> • Connecticut • Maine • Massachusetts • New Hampshire • New Jersey 	<ul style="list-style-type: none"> • New York • Pennsylvania • Puerto Rico • Rhode Island • Vermont 	James Cassidy City of Cambridge Weights and Measures Department Phone: (617) 349-6133 Email: jcassidy@cambridgema.gov	Annual Meeting: May 16-19, 2016 Portland, ME Interim Meeting: TBD Springfield, MA

Southern Weights and Measures Association (SWMA) www.swma.org

States		Contact	Meetings
<ul style="list-style-type: none"> • Alabama • Arkansas • Delaware • District of Columbia • Florida • Georgia • Kentucky • Louisiana • Maryland 	<ul style="list-style-type: none"> • Mississippi • North Carolina • Oklahoma • South Carolina • Tennessee • Texas • US Virgin Islands • Virginia • West Virginia 	Gene Robertson Mississippi Department of Agriculture & Commerce Phone: (601) 359-1102 Email: gene@mdac.ms.gov	Annual Meeting: TBD Texas

Western Weights and Measures Association (WWMA) www.westernwma.org

States		Contact	Meetings
<ul style="list-style-type: none"> • Alaska • Arizona • California • Colorado • Hawaii • Idaho • Montana 	<ul style="list-style-type: none"> • Nevada • New Mexico • Oregon • Utah • Washington • Wyoming 	Jeri Kahana Hawaii Department of Agriculture Phone: (808) 832-0707 Email: Jeri.M.Kahana@hawaii.gov	Annual Meeting: September 11-15, 2016 Honolulu, HI

Past Chairman

Conference	Year	Location	Chairman
1 st	1905	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
2 nd	1906	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
3 rd	1907	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
4 th	1908	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
	1909	Conference Was Not Held	
5 th	1910	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
6 th	1911	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
7 th	1912	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
8 th	1913	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
9 th	1914	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
10 th	1915	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
11 th	1916	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
	1917	Conference Was Not Held	
	1918	Conference Was Not Held	
12 th	1919	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
13 th	1920	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
14 th	1921	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
15 th	1922	Washington, D.C.	Dr. S.W. Stratton, Bureau of Standards
16 th	1923	Washington, D.C.	Dr. George Burgess, Bureau of Standards
17 th	1924	Washington, D.C.	Dr. George Burgess, Bureau of Standards
18 th	1925	Washington, D.C.	Dr. George Burgess, Bureau of Standards
19 th	1926	Washington, D.C.	Dr. George Burgess, Bureau of Standards
20 th	1927	Washington, D.C.	Dr. George Burgess, Bureau of Standards
21 st	1928	Washington, D.C.	Dr. George Burgess, Bureau of Standards
22 nd	1929	Washington, D.C.	Dr. George Burgess, Bureau of Standards
23 rd	1930	Washington, D.C.	Dr. George Burgess, Bureau of Standards
24 th	1931	Washington, D.C.	Dr. George Burgess, 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 Chairman

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

Past Chairman

Conference	Year	Location	Chairman
92 nd	2007	Salt Lake City, UT	Michael Cleary, CA
93 rd	2008	Burlington, VT	Judy Cardin, WI
94 th	2009	San Antonio, TX	Jack Kane, MT
95 th	2010	St. Paul, MN	Randy Jennings, TN
96 th	2011	Missoula, MT	Tim Tyson, KS
97 th	2012	Portland, ME	Kurt Floren, CA
98 th	2013	Louisville, KY	Stephen Benjamin, NC
99 th	2014	Detroit, MI	John Gaccione, NY
100 th	2015	Philadelphia, PA	Ronald Hayes, MO

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 Interim Meeting, Committees will conduct Open Hearings where all attendees have a direct impact on the national standards through their testimony. Following Open Hearings, the Committees will convene in work sessions to consider testimony and all other information at their disposal to further develop agenda items and determine the status of each for the Annual Meeting in July. Committees will report these decisions at the Joint Meeting on Wednesday. Items given voting status by the Committees will be presented at NCWM Annual Meeting in July.

FIRST TIME ATTENDEES

All attendees who are participating for the first time are encouraged to ask NCWM staff, Chairman, Board members and/or Committee member's questions.

COMMITTEE REFERENCE KEY

Agenda items to be addressed by the Committees are assigned reference key numbers as follows:

Reference Key	Committee
100 Series	Board of Directors (BOD)
200 Series	Laws and Regulations Committee (L&R)
300 Series	Specifications and Tolerances Committee (S&T)
400 Series	Professional Development Committee (PDC)
500 Series	National Type Evaluation Program Committee (NTEP)
800 Series	Nominating Committee

AGENDA

The subject matter listed on each Standing Committee's agenda will be open for discussion as noted. The Committee may also take up routine or miscellaneous items brought to its attention after the preparation of this document. The Committee may decide to accept items for discussion that are not listed in this document, providing they meet the criteria for exceptions as presented in NCWM Policy 3.2.2. *Procedures to Modify Handbooks, Part E, Exceptions to Policy for Submission of Items to the NCWM Committee Agenda; Submission of Priority Items*. The Committees have not determined whether the items presented will be Voting or Informational, Developing or Withdrawn in status for the Annual Meeting in July; these determinations will be made in their deliberations at the Interim Meeting.

The agendas:

1. Shall include items brought to the attention of the Standing Committees prior to the submission deadline of November 1, 2015, and approved for inclusion in their agendas by the Committees; and
2. Shall serve as the basis for the Standing Committee Interim Reports; to be printed in the program and Committee reports of NCWM Publication 16, *Committee Reports for the 101st Annual Meeting* to be held July 24-28, 2016 at the Grand Hyatt Denver in Denver, Colorado. The final reports of the Committees will be published following the 101st NCWM Annual Meeting in the NIST Special Publication, *Annual Report of the 101st National Conference on Weights and Measures*.

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. *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

JOINT MEETINGS FOR ALL COMMITTEES

A Joint Meeting for all Committees will be held on Sunday, January 10, and Wednesday, January 13, 2016. On Wednesday, each Standing Committee will highlight the major decisions made during the week, and the Nominating Committee will present its report.

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 provided that:

1. 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 at all 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 in order 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 Interim Meetings. Each Committee will prepare its report containing its recommendations based upon the presentations, discussions, and deliberations on all matters on its agenda that were addressed during the Interim Meeting. These reports will be published in NCWM Publication 16, *Committee Reports for the 101st Annual Meeting*, to be posted to the NCWM website at www.ncwm.net in early April. Printed copies of NCWM Publication 16 will be distributed to meeting attendees at the NCWM Annual Meeting in July.

ANNUAL MEETING

The 101st NCWM Annual Meeting will be held at the Grand Hyatt Denver in Denver, Colorado, July 24-28, 2016.

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.

