

**N C W M  
PUBLICATION**

**15**

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

**San Antonio, Texas / January 8-11, 2017**

*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.



## Tradition and Technology: Finding the Right Balance

Kristin Macey, Chairman  
California



Dear NCWM Members,

Bienvenidos! Welcome to San Antonio, Texas, home to the Alamo, the San Antonio Spurs, and fabulous Tex-Mex food. This is the location of the NCWM Interim January 8 – 11, 2017. Our venue is the Hyatt Regency San Antonio on the Riverwalk, a world-renowned urban waterway. Tucked quietly below street level, Paseo del Rio provides a scenic way to access many of San Antonio's best shops and dining experiences, plus attractions such as the Alamo and other Spanish missions, the Witte Museum, the San Antonio Museum of Art, and the Historic Market Square.

The NCWM Interim Meeting is where the NCWM Standing Committees (Specifications and Tolerances, Laws and Regulations, and Professional Development) gather to carefully review new and carryover proposals evaluated by the four regional weights and measures associations. Each committee is accountable for its decision of assigning the status (voting, informational, developing, or withdrawn) to each item. A committee's understanding of proposals comes from multiple sources, including the expertise of NIST technical advisors, supporting documentation, and oral input from stakeholders, including state, local and federal officials, device manufacturers, product manufacturers, packagers, retailers, and consumer representatives. Your input and participation is an integral part of the U.S. standards-setting process for weights and measures (legal metrology), so I ask that you review Publication 15 and make plans to attend and participate at the Interim Meeting in January.

In Publication 15, you'll notice that the committee agendas once again include a voluminous number of items. You may also notice the reference key system has been modified by adding an additional digit to accommodate recent expansion in the number of standards adopted by NCWM.

Advances in technology, new products or services, and the need to rapidly publish regulations are some causes for burgeoning committee agendas. In January, committees will address proposals for a new transportation network measurement systems code and amendments to the taximeter code; proposals for methods of sale of automotive transmission fluid, polyethylene products, and agricultural products. You will receive an update on the Charter Team's activities related to reviewing the traditional NCWM standards setting process in light of greater demand for speedy code development. You will also receive information on the PDC's progress on basic competency exams.

The 2017 NCWM Interim has all the makings of an exciting meeting. Thank you in advance for your participation. I look forward to seeing you in San Antonio. Safe travels!

Sincerely,

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

Kristin Macey  
NCWM Chairman



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## Schedule of Events

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

*\*Committee hearings will occur in the order presented below. Times of each hearing are not firm; when one Committee finishes, the next Committee will begin.*

<b>Saturday, January 7, 2017</b>		
8:30 a.m. – 5:00 p.m.	NCWM Board of Directors Meeting	Seguin
<b>Sunday, January 8, 2017</b>		
8:30 a.m. – 9:00 a.m.	Coffee Service	Regency West Foyer
8:30 a.m. – 5:00 p.m.	Registration and Exhibits	Regency West Foyer
9:00 a.m. – 11:30 a.m.	Board of Directors Meeting	Seguin
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 1:30 p.m.	<b>Joint Committee Meeting</b>	Regency West
1:30 p.m. – 4:00 p.m.	Meter Manufacturer Association	Rio Grande Center
1:30 p.m. – 4:00 p.m.	Fuels and Lubricants Subcommittee	Rio Grande West
1:30 p.m. – 4:00 p.m.	Packaging and Labeling Subcommittee	Rio Grande East
1:30 p.m. – 4:00 p.m.	Weigh-in-Motion Task Group	Seguin
4:00 p.m. – 5:00 p.m.	<b>Agenda Review</b>	
	Laws and Regulations Committee	Rio Grande Center
	Specifications and Tolerances Committee	Rio Grande West
	Professional Development Committee	Rio Grande East
	Board of Directors / NTEP Committee	Seguin
5:30 p.m. – 7:00 p.m.	<b>Chairman's Reception</b>	Garden Terrace

2017 Interim Schedule of Events

<b>Monday, January 9, 2017</b>		
7:30 a.m. – 9:00 a.m.	Light Breakfast	Regency Center
7:30 a.m. – 5:00 p.m.	Registration and Exhibits	Regency West Foyer
8:00 a.m. – 5:00 p.m.	Nominating Committee	Guadalupe
8:30 a.m. – 12:00 p.m.	<b>Official Session – Open Hearings</b> Laws and Regulations Committee Specifications and Tolerances Committee Professional Development Committee Board of Directors NTEP Committee	Regency West
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 5:00 p.m.	<b>Official Session – Open Hearings Continued</b>	Regency West
5:15 p.m. – 6:15 p.m.	Charter Team	Guadalupe
<b>Tuesday, January 10, 2017</b>		
7:30 a.m. – 9:00 a.m.	Light Breakfast	Regency Center
7:30 a.m. – 5:00 p.m.	Registration and Exhibits	Regency West Foyer
8:30 a.m. – 12:00 p.m.	<b>Official Session – Open Hearings Continued</b>	Regency West
12:00 p.m. – 1:00 p.m.	Lunch on Your Own	
1:00 p.m. – 5:00 p.m.	<b>Committee Work Sessions</b> Laws and Regulations Committee Specifications and Tolerances Committee Professional Development Committee Board of Directors / NTEP Committee	Rio Grande Center Rio Grande West Rio Grande East Seguin
5:00 p.m. – 6:00 p.m.	Associate Membership Committee	Regency West
<b>Wednesday, January 11, 2017</b>		
7:30 a.m. – 9:00 a.m.	Light Breakfast	Regency Center
7:30 a.m. – 12:00 p.m.	Registration and Exhibits	Regency West Foyer
9:00 a.m. – 10:45 a.m.	Panel Discussion: Weights and Measures in Agriculture	Regency West
11:00 a.m. – 12:00 p.m.	<b>Joint Committee Meeting</b>	Regency West



# Organization Chart

<b>NCWM Board of Directors</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Chairman	Kristin Macey	California	2017
Chairman-Elect	James Cassidy	City of Cambridge, Massachusetts	2017
Immediate Past Chair	Jerry Buendel	Washington	2017
Treasurer	Raymond Johnson	New Mexico	2017
Active Membership – Western	Brett Gurney	Utah	2017
Active Membership – Southern	Kenneth Ramsburg	Maryland	2018
Active Membership – Northeastern	Steve Giguere	Maine	2019
Active Membership – Central	Craig VanBuren	Michigan	2020
At-Large	Chuck Corr	Archer Daniels Midland Company	2018
At-Large	Julie Quinn	Minnesota	2021
Associate Membership	Christopher Guay	Procter and Gamble, Co.	2019
Honorary NCWM President	Dr. Willie May	NIST Director	NA
Executive Director	Don Onwiler	NCWM	NA
Executive Secretary	Vacant	NIST, Office of Weights and Measures	NA
NTEP Administrator	Jim Truex	NCWM	NA
Measurement Canada Advisor	Carl Cotton	Measurement Canada	NA
<b>National Type Evaluation Program Committee (NTEP)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Jerry Buendel	Washington	2017
Member	Kristin Macey	California	2018
Member	Kenneth Ramsburg	Maryland	2018
Member	James Cassidy	Massachusetts	2019
Member	Craig VanBuren	Michigan	2020
NTEP Administrator	Jim Truex	NCWM	NA
<b>Finance Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	James Cassidy	City of Cambridge, Massachusetts	2017
Nominated Chair-Elect	TBD		
Member	Raymond Johnson	New Mexico	2017
Member	Christopher Guay	Procter and Gamble, Co.	2017
Executive Director	Don Onwiler	NCWM	NA

## Organization Chart

<b>Laws and Regulations Committee (L&amp;R)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Ethan Bogren	Westchester County, New York	2020
Member	Louis Sakin	Towns of Hopkinton/Northbridge, Massachusetts	2017
Member	John Albert	Missouri	2018
Member	Michelle Wilson	Arizona	2019
Member	Hal Prince	Florida	2021
Associate Membership Representative	Rebecca Richardson	MARC – IV Consulting	2018
Canadian Technical Advisor	Lance Robertson	Measurement Canada	NA
NIST Technical Advisor	David Sefcik	NIST, Office of Weights and Measures	NA
NIST Technical Advisor	Lisa Warfield	NIST, Office of Weights and Measures	NA
<b>Professional Development Committee (PDC)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Stacy Carlsen	Marin County, California	2017
Member	Lori Jacobson	South Dakota	2018
Member	Gene Robertson	Mississippi	2019
Member	Cheryl Ayer	New Hampshire	2020
Member	Marco Mares	San Diego County, California	2021
Associate Membership Representative	Richard Shipman	Rice Lake Weighing Systems, Inc.	2018
Safety Liaison	Julie Quinn	Minnesota	NA
NIST Liaison	Tina Butcher	NIST, Office of Weights and Measures	NA
Certification Coordinator	Ross Andersen	Retired	NA
<b>Specifications and Tolerances Committee (S&amp;T)</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Matthew Curran	Florida	2018
Member	Jane Zulkiewicz	Town of Barnstable, Massachusetts	2017
Member	Ivan Hanks	Iowa	2019
Member	Rachelle Miller	Wisconsin	2020
Member	Josh Nelson	Oregon	2021
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

## Organization Chart

<b>Nominating Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Jerry Buendel	Washington	2017
Member	John Gaccione	Westchester County, New York	2017
Member	Stephen Benjamin	North Carolina	2017
Member	Kurt Floren	Los Angeles County, California	2017
Member	Joe Gomez	New Mexico	2017
Member	Charles Carroll	Massachusetts	2017
<b>Credentials Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Fran Elson-Houston	Ohio	2017
Member	Matt Maiten	Santa Barbara County, California	2017
Member	Lori Jacobson	South Dakota	2018
Coordinator	Darrell Flocken	NCWM	NA
<b>Appointive Officials</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Chaplain	Constantine Cotsoradis	Flint Hills Resources	2017
Parliamentarian	Louis Straub	Fairbanks Scale, Inc.	2017
Presiding Officer	Tim Chesser	Arkansas	2017
Presiding Officer	Loren Minnich	Kansas	2017
Presiding Officer	Mark Paquette	Vermont	2017
Presiding Officer	Jack Walsh	Town of Wellesley, Massachusetts	2017
Sergeant-at-Arms	TBD		2017
Sergeant-at-Arms	TBD		2017
<b>Associate Membership Committee</b>			
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>	<b>Term Ends</b>
Committee Chair	Richard Shipman	Rice Lake Weighing Systems, Inc.	2017
Vice-Chair	Bill Callaway	Crompco	2017
Secretary / Treasurer	Mark Flint	ADM	2017
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

<b>Fuels and Lubricants Subcommittee</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
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	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	Tim Elliot	Washington
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	Holly Alfano	Independent Lubricant Manufacturers Association
Private Sector Member	Matt Bjornson	Bjornson Oil Company
Private Sector Member	Bill Cannella	Chevron Global Downstream, LLC
Private Sector Member	Chuck Corr	Archer Daniels Midland Company
Private Sector Member	Davis Cosey	Davis Oil Company
Private Sector Member	Kelly Davis	Renewable Fuels Association
Private Sector Member	Ed Dougherty	Sunoco Logistics
Private Sector Member	Scott Fenwick	National Biodiesel Board
Private Sector Member	David Fialkov	NATSO
Private Sector Member	Rick Fragnito	Shell
Private Sector Member	Philip Guillemette	Flint Hills Resources, LP
Private Sector Member	John Harkins	Sunoco Logistics
Private Sector Member	Marilyn Herman	Herman and Associates
Private Sector Member	Cal Hodge	A 2nd Opinion, Inc.
Private Sector Member	Joanna Johnson	Automotive Oil Exchange Association
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	John Maynes	PMCI

## Organization Chart

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	Brian Parnell	Mapco Express
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	Rob Underwood	Petroleum Marketers Association of America
Private Sector Member	Marie Valentine	Toyota - TEMA - TTC
Private Sector Member	Steve Vander Griend	ICM, Inc.

### 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

### 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.



<b>Meat, Poultry, Fish and Seafood Method of Sale Task Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Co-Chair	David Sefcik	NIST, Office of Weights and Measures
Co-Chair	Lisa Warfield	NIST, Office of Weights and Measures
Public Sector Member	Cheryl Ayer	New Hampshire
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	Tim Osmer	New Hampshire
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	Philip 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

## Organization Chart

<b>Weigh-In-Motion Task Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
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	Tim Chesser	Arkansas
Public Sector Member	Lenny Goebel	Illinois
Private Sector Member	Jon Arnold	Intercomp Company
Private Sector Member	Tim Broemmer	Rice Lake Weighing Systems, Inc.
Private Sector Member	Scott Davidson	Mettler-Toledo, LLC
Private Sector Member	Brad Fryburger	Rinstrum, Inc.
Private Sector Member	Eric Golden	Cardinal Scale Manufacturing, Co.
Private Sector Member	Joe Grell	Rice Lake Weighing Systems, Inc.
Private Sector Member	Randy Hanson	International Road Dynamics
Private Sector Member	John Lawn	Rinstrum, Inc.
Private Sector Member	Louis Straub	Fairbanks Scale, Inc.
Private Sector Member	Richard Suiter	Richard Suiter Consulting
Private Sector Member	Brian Taylor	Intelligent Imaging Systems
Private Sector Member	Russ Vires	Mettler-Toledo, LLC
Private Sector Member	Sam Wimsett	Cardinal Scale Manufacturing, Co.
Private Sector Member	Matt Young	Intercomp Company
<b>Multiple Dimension Measuring Device Work Group</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Robert Kennington	Quantronix, Inc.
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	Rick Harshman	NIST, Office of Weights and Measures
Public Sector Member	Tom Buck	Ohio
Public Sector Member	Fran Elson-Houston	Ohio
Public Sector Member	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	Seth Bauer	Old Dominion Freight
Private Sector Member	Scott Davidson	Mettler-Toledo, LLC
Private Sector Member	Michael Eichenberg	FreightSnap, LLC
Private Sector Member	Justin Harper	AOA Xinetics/NGC
Private Sector Member	Scott Henry	Zebra Technologies
Private Sector Member	Uwe Mohr	Vitronic
Private Sector Member	Scott Murchison	Zebra Technologies
Private Sector Member	Don Newell	National Motor Freight Traffic Association

## Organization Chart

Private Sector Member	Weston Privett	XPO LTL
Private Sector Member	Tony Romeo	Datalogic
Private Sector Member	Christopher Senneff	Rice Lake Weighing Systems, Inc.
Private Sector Member	Richard Shipman	Rice Lake Weighing Systems, Inc.
Private Sector Member	Mike Stutler	United Parcel Service
Private Sector Member	Richard Suiter	Richard Suiter Consulting
Private Sector Member	Russ Vires	Mettler-Toledo, LLC
Private Sector Member	Scott Wigginton	United Parcel Service

## Organization Chart

<b>NTEP Belt-Conveyor Sector</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Peter Sirrico	Thayer Scale / Hyer Industries
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	John Barton	NIST, Office of Weights and Measures
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Zacharias Tripoulas	Maryland
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
<b>NTEP Grain Analyzer Sector</b>		
<b>Office</b>	<b>Name</b>	<b>Affiliation</b>
Chair	Karl Cunningham	Illinois
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	G. Diane Lee	NIST, Office of Weights and Measures
Advisory Member	Cassie Eigenmann	Retired
Public Sector Member	Randy Burns	Arkansas
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Ivan Hankins	Iowa
Public Sector Member	Thomas Hughes	Missouri
Public Sector Member	Jason Jordan	USDA, GIPSA, Technical Services Division
Private Sector Member	Jeffrey Adkisson	Grain and Feed Association of Illinois
Private Sector Member	Rachel Beiswenger	TSI Incorporated
Private Sector Member	Martin Clements	The Steinlite Corporation
Private Sector Member	Kathy Conover	DICKEY-john Corporation
Private Sector Member	Andrew Gell	Foss North America
Private Sector Member	Charles Hurburgh, Jr.	Iowa State University
Private Sector Member	Jess McCluer	National Grain and Feed Association
Private Sector Member	Thomas Runyon	Seedburo Equipment Co.

NTEP Measuring Sector		
Office	Name	Affiliation
Chair	Michael Keilty	Endress + Hauser Flowtec AG, USA
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Technical Advisor	Clark Cooney	California Division of Measurement Standards
Public Sector Member	Luciano Burtini	Measurement Canada
Public Sector Member	Tina Butcher	NIST, Office of Weights and Measures
Public Sector Member	Joe Eccleston	Maryland
Public Sector Member	Allen Katalinic	North Carolina
Public Sector Member	John Roach	California
Private Sector Member	Steve Bar	Bennett Pump Company
Private Sector Member	Marc Buttler	Emerson Process Management / Micro Motion
Private Sector Member	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	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	Andre Noel	Neptune Technology Group, Inc.
Private Sector Member	Christopher (Adam) Oldham	Gilbarco, Inc.
Private Sector Member	Richard Tucker	RL Tucker Consulting, LLC

## Organization Chart

NTEP Software Sector		
Office	Name	Affiliation
Chair	James Pettinato	FMC Technologies Measurement Solutions, Inc.
NTEP Administrator	Jim Truex	NCWM
NTEP Specialist	Darrell Flocken	NCWM
Secretary	Teri Gulke	Liquid Controls, LLC
Technical Advisor	Doug Bliss	Mettler-Toledo, LLC
Public Sector Member	Andrei Brezoica	California
Public Sector Member	Tom Buck	Ohio
Public Sector Member	Luciano Burtini	Measurement Canada
Public Sector Member	Joe Eccleston	Maryland
Public Sector Member	Eric Morabito	New York
Public Sector Member	John Roach	California
Public Sector Member	Ambler Thompson	NIST, Office of Weights and Measures
Public Sector Member	Zacharias Tripoulas	Maryland
Private Sector Member	Mary Abens	Emerson Process Management
Private Sector Member	John Atwood	Tyson Foods
Private Sector Member	Gary Benjamin	NCR Corporation
Private Sector Member	Benjamin Bertz	Red Seal Measurement
Private Sector Member	Kevin Detert	Avery Weigh-Tronix
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	Caleb Westadt	TSI Incorporated
Private Sector Member	John Wind	Bizerba USA, Inc.
Private Sector Member	Kraig Wooddell	Hobart

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

## Organization Chart

Central Weights and Measures Association (CWMA) <a href="http://www.cwma.net">www.cwma.net</a>						
<b>States</b>	Illinois Indiana Iowa	Kansas Michigan Minnesota	Missouri Nebraska North Dakota	Ohio South Dakota Wisconsin		
<b>Contact</b>	Sherry Turvey Kansas Department of Agriculture			(785) 564-6681 <a href="mailto:sherry.turvey@ks.gov">sherry.turvey@ks.gov</a>		
<b>Annual Meeting</b>	May 22 – 25, 2017			Lincoln, Nebraska		
<b>Interim Meeting</b>	October 16 – 18, 2017			St. Charles, Missouri		
Northeastern Weights and Measures Association (NEWMA) <a href="http://www.newma.us">www.newma.us</a>						
<b>States</b>	Connecticut Maine Massachusetts	New Hampshire New Jersey New York	Pennsylvania Puerto Rico Rhode Island	Vermont		
<b>Contact</b>	James Cassidy City of Cambridge Weights and Measures Department			(617) 349-6133 <a href="mailto:jcassidy@cambridgema.gov">jcassidy@cambridgema.gov</a>		
<b>Annual Meeting</b>	May 15 – 18, 2017			Saratoga Springs, New York		
<b>Interim Meeting</b>	October 25 – 26, 2017			Portland, Maine		
Southern Weights and Measures Association (SWMA) <a href="http://www.swma.org">www.swma.org</a>						
<b>States</b>	Alabama Arkansas Delaware	District of Columbia Florida Georgia	Kentucky Louisiana Maryland	Mississippi North Carolina Oklahoma	South Carolina Tennessee Texas	US Virgin Islands Virginia West Virginia
<b>Contact</b>	Tim Chesser Arkansas Bureau of Standards			(501) 570-1154 <a href="mailto:tim.chesser@aspb.ar.gov">tim.chesser@aspb.ar.gov</a>		
<b>Annual Meeting</b>	October 8 – 11, 2017			North Little Rock, Arkansas		
Western Weights and Measures Association (WWMA) <a href="http://www.westernwma.org">www.westernwma.org</a>						
<b>States</b>	Alaska Arizona California	Colorado Hawaii Idaho	Montana Nevada New Mexico	Oregon Utah Washington	Wyoming	
<b>Contact</b>	Michelle Wilson Arizona Department of Weights and Measures			(602) 771-4933 <a href="mailto:mwilson@azda.gov">mwilson@azda.gov</a>		
<b>Annual Meeting</b>	September 24 – 28, 2017			Scottsdale, Arizona		





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**Past Chairmen**


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

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**Past Chairmen**


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

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**Past Chairmen**

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<b>Conference</b>	<b>Year</b>	<b>Location</b>	<b>Chairman</b>
92 <sup>nd</sup>	2007	Salt Lake City, UT	Michael Cleary, CA
93 <sup>rd</sup>	2008	Burlington, VT	Judy Cardin, WI
94 <sup>th</sup>	2009	San Antonio, TX	Jack Kane, MT
95 <sup>th</sup>	2010	St. Paul, MN	Randy Jennings, TN
96 <sup>th</sup>	2011	Missoula, MT	Tim Tyson, KS
97 <sup>th</sup>	2012	Portland, ME	Kurt Floren, CA
98 <sup>th</sup>	2013	Louisville, KY	Stephen Benjamin, NC
99 <sup>th</sup>	2014	Detroit, MI	John Gaccione, NY
100 <sup>th</sup>	2015	Philadelphia, PA	Ronald Hayes, MO
101 <sup>st</sup>	2016	Denver, CO	Jerry Buendel, WA

## 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 Committee 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:

<b>Reference Key</b>	<b>Committee</b>
1000 Series	Board of Directors (BOD)
2000 Series	Laws and Regulations Committee (L&R)
3000 Series	Specifications and Tolerances Committee (S&T)
4000 Series	Professional Development Committee (PDC)
5000 Series	National Type Evaluation Program Committee (NTEP)
8000 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, 2016, 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 102<sup>nd</sup> Annual Meeting* to be held July 16-20, 2016 at the Omni William Penn Hotel in Pittsburgh, Pennsylvania. The final reports of the Committees will be published following the 102<sup>nd</sup> NCWM Annual Meeting in the NIST Special Publication, *Annual Report of the 102<sup>nd</sup> 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](mailto:don.onwiler@ncwm.net)

## **JOINT MEETINGS FOR ALL COMMITTEES**

A Joint Meeting for all Committees will be held on Sunday, January 8, and Wednesday, January 11, 2017. 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 102<sup>nd</sup> Annual Meeting*, to be posted to the NCWM website at [www.ncwm.net](http://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 102<sup>nd</sup> NCWM Annual Meeting will be held at the Omni William Penn Hotel in Pittsburgh, Pennsylvania, July 16-20, 2017.

## **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.

## General Information