

**N C W M
PUBLICATION**

15

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

Albuquerque, NM / January 19-22, 2014

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.

On the Path to Tomorrow

John Gaccione, Chairman
Westchester County, New York



Welcome everyone to the 2014 NCWM Interim Meeting. And for some of you, welcome back to beautiful Albuquerque, New Mexico. The Hotel Albuquerque is perfectly situated in the heart of Old Town and its location offers conference attendees plenty of old style charm.

As everyone knows, NCWM's interim meetings are the place where the regions present to the standing committees, new along with reworked carry over agenda items. This year because of fast moving and constantly challenging technology, newer items may move more quickly through the committees and be ready for a vote sooner than other agenda items

For the first time this interim meeting we will have expanded time slots for subcommittee and task group meetings. A number of task group and subcommittee meetings are scheduled, including the FALS Committee, The Toolkit Group and The Natural Gas Steering Committee. Also, debate will continue on the increasing presence in the marketplace of alternative fuel sources, including electricity and compressed and liquefied natural gas. I ask that you take the time to review Publication 15, attend committee meetings and participate in open hearings.

Also, for those who have not heard already, Mr. Darrell Flocken has joined the staff at NCWM as our new National Type Evaluation Program (NTEP) Technical Assistant. Darrell joined NCWM/NTEP on January 1, 2014. Welcome Darrell.

Borrowing comments made at one of our earlier meetings, "NCWM is a most important and influential organization....." Let's continue to be "most important and influential" by carrying on with NCWM's tradition of holding successful, productive meetings.

Again welcome to all attendees and best wishes!

A handwritten signature in black ink that reads "John P. Gaccione". The signature is written in a cursive style with a large, looped initial 'J'.

John Gaccione
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 17, 2014

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

Saturday, January 18, 2014

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

Sunday, January 19, 2014

| | | |
|------------------------|--|--------------|
| 7:30 a.m. – 9:00 a.m. | Coffee Service | North Atrium |
| 7:30 a.m. – 5:00 p.m. | Registration and Exhibits | North Atrium |
| 8:00 a.m. – 11:30 a.m. | Meter Manufacturers Association | Weavers |
| 8:30 a.m. – 12:00 p.m. | NCWM Board of Directors Meeting (Tentative) | Fireplace |
| 9:00 a.m. – 11:30 a.m. | Promotional Tool Kit Task Group | Alvarado C |
| 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 | Alvarado D |
| 1:30 p.m. – 4:00 p.m. | Packaging and Labeling Subcommittee | Alvarado A |
| 1:30 p.m. – 4:00 p.m. | Natural Gas Steering Committee | Alvarado B |
| 1:30 p.m. – 4:00 p.m. | Fuels and Lubricants Subcommittee | Alvarado C |
| 1:30 p.m. – 4:00 p.m. | RMFD Price Posting and Computing Capability Task Group | Alvarado D |
| 4:00 p.m. – 5:00 p.m. | Standing Committee's Agenda Review | |
| | Laws and Regulations Committee | Alvarado A |
| | Specifications and Tolerances Committee | Alvarado B |
| | Professional Development Committee | Alvarado C |
| | Board of Directors | Fireplace |
| | NTEP Committee | |
| 5:30 p.m. – 7:00 p.m. | Chairman's Reception | Franciscan |

2014 Interim Schedule of Events

Monday, January 20, 2014

| | | |
|------------------------|---|--|
| 7:30 a.m. – 9:00 a.m. | Light Breakfast | North Atrium |
| 7:30 a.m. – 5:00 p.m. | Registration and Exhibits | North Atrium |
| 8:00 a.m. – 5:00 p.m. | Nominating Committee | Weavers |
| 8:30 a.m. – 5:00 p.m. | Official Session – Open Hearings Welcome: Jeff Witte – Secretary of Agriculture New Mexico Department of Agriculture Laws and Regulations Committee Specifications and Tolerances Committee Professional Development Committee Board of Directors NTEP Committee | Alvarado D Alvarado A Alvarado B Alvarado C Fireplace Fireplace |
| 12:00 p.m. – 1:00 p.m. | Lunch on Your Own | |

Tuesday, January 21, 2014

| | | |
|------------------------|--|--|
| 7:30 a.m. – 9:00 a.m. | Light Breakfast | North Atrium |
| 7:30 a.m. – 5:00 p.m. | Registration and Exhibits | North Atrium |
| 8:30 a.m. – 12:00 p.m. | Official Session – Open Hearings | Alvarado D |
| 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 | Alvarado A Alvarado B Alvarado C Fireplace Fireplace |
| 3:00 p.m. – 4:00 p.m. | Petroleum Quality Institute of America Presentation to the Board of Directors | Fireplace |
| 5:00 p.m. – 6:00 p.m. | Associate Membership Committee | Alvarado D |

Wednesday, January 22, 2014

| | | |
|-------------------------|--|--|
| 7:30 a.m. – 9:00 a.m. | Light Breakfast | North Atrium |
| 7:30 a.m. – 12:00 p.m. | Registration and Exhibits | North Atrium |
| 8:30 a.m. – 11:00 a.m. | Committee Work Sessions Laws and Regulations Committee Specifications and Tolerances Committee Professional Development Committee Board of Directors NTEP Committee | Alvarado A Alvarado B Alvarado C Fireplace Fireplace |
| 11:00 a.m. – 12:00 p.m. | Joint Meeting – All Standing Committees | Alvarado D |

2013 – 2014 Organizational Chart

NCWM Board of Directors (BOD)

| Office | Name | Affiliation | Term Ends |
|----------------------------------|--------------------------|--------------------------------------|-----------|
| Chairman | John Gaccione | Westchester County, New York | 2014 |
| Chairman-Elect | Ron Hayes | Missouri | 2014 |
| NTEP Committee Chair | Stephen Benjamin | North Carolina | 2014 |
| Treasurer | Mark Coyne | City of Brockton, Massachusetts | 2014 |
| Active Membership - Western | Jerry Buendel | Washington | 2017 |
| Active Membership - Central | Craig VanBuren | Michigan | 2015 |
| Active Membership - Southern | Kenneth Ramsburg | Maryland | 2018 |
| Active Membership - Northeastern | James Cassidy | City of Cambridge, Massachusetts | 2014 |
| 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. Patrick D. Gallagher | NIST Director | NA |
| Executive Secretary | Carol Hockert | NIST, Office of Weights and Measures | NA |
| Executive Director | Don Onwiler | NCWM | NA |
| Board of Directors Advisor | Gilles Vinet | Measurement Canada | NA |
| NTEP Administrator | Jim Truex | NCWM | NA |

National Type Evaluation Program (NTEP)

| Office | Name | Affiliation | Term Ends |
|--------------------|------------------|------------------------------|-----------|
| Committee Chair | Stephen Benjamin | North Carolina | 2014 |
| Member | John Gaccione | Westchester County, New York | 2014 |
| Member | James Cassidy | Massachusetts | 2014 |
| Member | Ronald Hayes | Missouri | 2015 |
| Member | Jerry Buendel | Washington | 2017 |
| NTEP Administrator | Jim Truex | NCWM Headquarters | NA |

Finance Committee

| Office | Name | Affiliation | Term Ends |
|--------------------|------------------|---------------------------------|-----------|
| Committee Chair | Ron Hayes | Missouri | 2014 |
| Member | Mark Coyne | City of Brockton, Massachusetts | 2014 |
| Member | TBD | TBD | 2014 |
| Member | Christopher Guay | Procter and Gamble, Co. | 2016 |
| Executive Director | Don Onwiler | NCWM Headquarters | NA |

Laws and Regulations Committee (L&R)

| Office | Name | Affiliation | Term Ends |
|-------------------------------------|-----------------|---|-----------|
| Committee Chair | Raymond Johnson | New Mexico | 2014 |
| Member | Tim Lloyd | Montana | 2015 |
| Member | Richard Lewis | Georgia | 2016 |
| Member | Louis Sakin | Towns of Hopkinton/Northbridge, Massachusetts | 2017 |
| Member | John Albert | Missouri | 2018 |
| Associate Membership Representative | Steve Grabski | Wal-Mart | 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 | Paul Moyer | Nebraska | 2014 |
| Member | Brett Gurney | Utah | 2015 |
| Member | Mahesh Albuquerque | Colorado | 2016 |
| Member | Jane Zulkiewicz | Town of Barnstable | 2017 |
| Member | Matthew Curran | Florida | 2018 |
| Canadian Technical Advisor | Luciano Burtini | Measurement Canada | NA |
| NIST Technical Advisor | Tina Butcher | NIST, Office of Weights and Measures | NA |
| NIST Technical Advisor | Rick Harshman | NIST, Office of Weights and Measures | NA |

Professional Development Committee (PDC)

| Office | Name | Affiliation | Term Ends |
|-------------------------------------|-----------------|----------------------------|-----------|
| Committee Chair | Dale Saunders | Virginia | 2014 |
| Member | Cheryl Ayer | New Hampshire | 2015 |
| Member | Kristin Macey | California | 2016 |
| Member | Stacy Carlsen | Marin County, California | 2017 |
| Member | Julie Quinn | Minnesota | 2018 |
| Associate Membership Representative | Richard Shipman | Rice Lake Weighing Systems | 2018 |
| Safety Liaison | TBD | | NA |
| NIST Technical Advisor | TBD | | NA |
| Certification Coordinator | Ross Andersen | | NA |

Nominating Committee

| Office | Name | Affiliation | Term Ends |
|-----------------|------------------|----------------------------|-----------|
| Committee Chair | Stephen Benjamin | North Carolina | 2014 |
| Member | Tim Tyson | Kansas | 2014 |
| Member | Charles Carroll | Massachusetts | 2014 |
| Member | Joe Gomez | New Mexico | 2014 |
| Member | Tim Chesser | Arkansas | 2014 |
| Member | Frank Greene | Connecticut | 2014 |
| Member | Angela Godwin | Ventura County, California | 2014 |

Credentials Committee

| Office | Name | Affiliation | Term Ends |
|-----------------|----------------|----------------|-----------|
| Committee Chair | Craig VanBuren | Michigan | 2014 |
| Member | Jerry Butler | North Carolina | 2015 |
| Member | TBD | TBD | 2016 |
| Coordinator | TBD | TBD | 2014 |

Appointive Officials

| Office | Name | Affiliation | Term Ends |
|-------------------|------------------|-----------------------------------|-----------|
| Chaplain | Stephen Langford | Cardinal Scale Manufacturing, Co. | 2014 |
| Parliamentarian | Louis Straub | Fairbanks Scale, Inc. | 2014 |
| Presiding Officer | TBD | TBD | 2014 |
| Presiding Officer | TBD | TBD | 2014 |
| Presiding Officer | TBD | TBD | 2014 |
| Presiding Officer | TBD | TBD | 2014 |
| Sergeants-at-Arms | TBD | TBD | 2014 |
| Sergeants-at-Arms | TBD | TBD | 2014 |

Associate Membership Committee (AMC)

| Office | Name | Affiliation | Term Ends |
|-----------------------|---------------------|--|-----------|
| Chair | Paul Lewis, Sr. | Rice Lake Weighing Systems, Inc. | 2014 |
| Vice Chair | Bill Callaway | Crompco | 2014 |
| Secretary / Treasurer | David Calix | NCR Corporation | 2014 |
| Member | Paul A. Lewis, Sr. | Rice Lake Weighing Systems, Inc. | 2014 |
| Member | Steven Grabski | Walmart | 2015 |
| Member | Christopher Guay | Procter and Gamble, Co. | 2015 |
| Member | Thomas McGee | PMP Corporation | 2015 |
| Member | Rob Underwood | Petroleum Marketers Association of America | 2015 |
| Member | Pete O'Bryan | Foster Farms | 2016 |
| Member | David Calix | NCR Corporation | 2018 |
| Member | Bill Callaway | Crompco | 2018 |
| Member | Darrell Flocken | Mettler-Toledo, Inc. | 2018 |
| Member | Robert Murnane, Jr. | Seraphin Test Measure | 2018 |

| Fuels and Lubricants Subcommittee (FALS) | | |
|---|-----------------------|---|
| Office | Name | Affiliation |
| Chair | Matthew Curran | Florida |
| NIST Technical Advisor | Kenneth Butcher | NIST, Office of Weights and Measures |
| NIST Technical Advisor | David Sefcik | NIST, Office of Weights and Measures |
| Public Sector Member | Mahesh Albuquerque | Colorado |
| Public Sector Member | Stephen Benjamin | North Carolina |
| Public Sector Member | Steven Harrington | Minnesota |
| Public Sector Member | Ron Hayes | Missouri |
| Public Sector Member | Randy Jennings | Tennessee |
| Public Sector Member | Kristin Macey | California |
| Public Sector Member | William Spitzley | Michigan |
| Private Sector Member | Chuck Corr | Archer Daniels Midland Company |
| Private Sector Member | Kevin Ferrick | API |
| Private Sector Member | K.W. Gardner | ExxonMobil Corporation |
| Private Sector Member | Bill Geubelle | Conoco Phillips |
| 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 | Jerome Horn | Chevron Global Downstream, LLC |
| Private Sector Member | Patrick Kelly | API |
| Private Sector Member | R. Scotti Lee | Automotive Oil Change Association |
| Private Sector Member | Roger Leisenring, Jr. | KiOR |
| Private Sector Member | Russ Lewis | Marathon Petroleum, LLC |
| Private Sector Member | James McGetrick | BP Products |
| Private Sector Member | Kristin Moore | Renewable Fuels Association |
| Private Sector Member | Robert Nelson | Shell Oil Products |
| 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 | Robert Reynolds | Downstream Alternatives, Inc. |
| Private Sector Member | Rebecca Richardson | MARC IV Consulting |
| Private Sector Member | Prentiss Searles | American Petroleum Institute |
| Private Sector Member | Shane Skelton | American Petroleum Institute |
| Private Sector Member | Curtis Williams | CP Williams Energy Consulting, LLC |
| Private Sector Member | William Woebkenberg | Mercedes-Benz Research and Development NA |

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 Member (CWMA) | Nicholas Owens | Stark County Weights and Measures |
| Public Sector Member (NEWMA) | Frank Greene | Connecticut |
| Public Sector Member (SWMA) | Bill Tedder | North Carolina |
| Public Sector Member (WWMA) | Angela Godwin | County of Ventura |
| Private Sector Member | Krister Hard of Segerstad | IKEA North America Services, LLC |
| Private Sector Member | Zina Juroch | Pier 1 Imports |
| Private Sector Member | Pete O'Bryan | Foster Farms |
| Private Sector Member | Stratt Pinagel | Wal-Mart Stores, Inc. |

Natural Gas Steering Committee

| Office | Name | Affiliation |
|---------------------------|--------------------|-------------------------------------|
| Chair | Mahesh Albuquerque | Colorado |
| 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 - Northeast | Ethan Bogren | Westchester County, New York |
| Public Sector – Southern | Matthew Curran | Florida |
| Private Sector Member | Josh Brown | NorthStar, Inc. |
| Private Sector Member | Scott Hartman | Shell |
| Private Sector Member | Douglas Horne | Clean Vehicle Education Foundation |
| Private Sector Member | Dmitri Karimov | Liquid Controls |
| Private Sector Member | Elisabeth Treseder | American Petroleum Institute |

Promotional Tool Kit Task Group

| Office | Name | Affiliation |
|-----------------------|------------------|---------------------------------|
| Chair | Stephen Benjamin | North Carolina |
| Public Sector Member | Kurt Floren | Los Angeles County |
| Public Sector Member | Jerry Buendel | Washington |
| Private Sector Member | Henry Oppermann | Weights and Measures Consulting |
| Private Sector Member | John Hughes | Rice Lake Weighing Systems |

Training Manual Task Group

| Office | Name | Affiliation |
|----------------------|----------------|---------------------|
| Chair | Michael Cleary | Retired: California |
| Public Sector Member | Craig Harris | Ohio |
| Public Sector Member | Josh Nelson | Oregon |
| Public Sector Member | Debbie Radar | Arizona |
| Public Sector Member | Julie Quinn | Minnesota |
| Public Sector Member | Scott Simmons | Colorado |

Multiple Dimensions Measuring Device Work Group

| Office | Name | Affiliation |
|------------------------|--------------------|--------------------------------------|
| Chair | Robert Kennington | Quantronix, Inc. |
| NIST Technical Advisor | TBD | NIST, Office of Weights and Measures |
| Public Sector Member | Fran Elson-Houston | Ohio |
| Public Sector Member | Luciano Burtini | Measurement Canada |
| Public Sector Member | Justin Rae | Measurement Canada |
| Private Sector Member | Scott Wigginton | United Parcel Service |

Organometallics Task Group

| Office | Name | Affiliation |
|-----------------------|--------------------|--------------------------------------|
| Chair | Randy Jennings | Tennessee |
| Public Sector Member | Ron Hayes | Missouri |
| Private Sector Member | John Cabaniss | Global Automakers |
| 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 |
| Private Sector Member | Mike Meffert | Afton Chemical |
| Private Sector Member | Kristy Moore | Renewable Fuels Foundation |
| Private Sector Member | Derek Regal | Tesoro Chemical |
| Private Sector Member | Charles Richardson | Ford Motor Company |
| Private Sector Member | Jenny Sigelko | Volkswagen Group of America |
| Private Sector Member | Val Ughetta | Alliance of Automobile Manufacturers |

Task Group on Retail Motor Fuel Dispenser Price Posting and Computing Capability

| Office | Name | Affiliation |
|------------------------|--------------------|--|
| Chair | Fran Elson-Houston | Ohio |
| NIST Technical Advisor | Juana Williams | NIST, Office of Weights and Measures |
| Public Sector Member | Shelly Miller | Wisconsin |
| Public Sector Member | Ken Ramsburg | Maryland |
| Public Sector Member | Jerry Buendel | Washington State Department of Agriculture |
| Private Sector Member | Rex Brown | Petroleum Equipment Institute |
| Private Sector Member | John Eichberger | National Association of Convenience Stores |
| Private Sector Member | Gordon Johnson | Gilbarco, Inc. |
| Private Sector Member | Phil Katselnik | Dresser Wayne |
| Private Sector Member | Mike Roach | VeriFone |
| Private Sector Member | Richard Suiter | Richard Suiter Consulting |
| Private Sector Member | Rob Underwood | Petroleum Marketers Association of America |

NTETC Belt-Conveyor Sector

| Office | Name | Affiliation |
|-----------------------|------------------|---|
| Chair | Bill Ripka | Thermo Fisher Scientific |
| Technical Advisor | John Barton | NIST, Office of Weights and Measures |
| NTEP Administrator | Jim Truex | NCWM Headquarters |
| Public Sector Member | Tina Butcher | NIST, Office of Weights and Measures |
| Public Sector Member | Ken Jones | California |
| Private Sector Member | Rafael Jimenez | Association of American Railroads Transportation Technology Center, Inc. |
| Private Sector Member | Lars Marmsater | Merrick Industries, Inc. |
| Private Sector Member | Peter Sirrico | Thayer Scale / Hyer Industries |
| Private Sector Member | Thomas Vormittag | |

NTETC Grain Analyzer Sector

| Office | Name | Affiliation |
|-----------------------|-----------------------|---|
| Chair | Cassie Eigenmann | DICKEY-john Corporation |
| Co-Technical Advisor | G. Diane Lee | NIST, Office of Weights and Measures |
| NTEP Administrator | Jim Truex | NCWM Headquarters |
| Public Sector Member | Tina Butcher | NIST, Office of Weights and Measures |
| Public Sector Member | Randy Burns | Arkansas |
| Public Sector Member | Karl Cunningham | Illinois |
| Public Sector Member | Ivan Hankins | Iowa |
| Public Sector Member | Thomas Hughes | Missouri |
| Public Sector Member | Cathleen Brenner | USDA, GIPSA Technical Services Division |
| Private Sector Member | Jeffrey Adkisson | Grain and Feed Association of Illinois |
| Private Sector Member | James Bair | North American Miller's Association |
| 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 | Seedbuero Equipment Co. |

| NTETC Measuring Sector | | |
|-------------------------------|------------------------|--|
| Office | Name | Affiliation |
| Chair | Michael Keilty | Endress + Hauser Flowtec AG, USA |
| Technical Advisor | TBD | NIST, Office of Weights and Measures |
| NTEP Administrator | Jim Truex | NCWM Headquarters |
| Public Sector Member | Dennis Beattie | Measurement Canada |
| Public Sector Member | Tina Butcher | NIST, Office of Weights and Measures |
| Public Sector Member | Jerry Butler | North Carolina |
| Public Sector Member | TBD | Maryland |
| Public Sector Member | John Roach | California |
| Private Sector Member | Steve Bar | Bennett Pump Company |
| Private Sector Member | Rodney Cooper | Tuthill Transfer Systems |
| Private Sector Member | Constantine Cotsoradis | Flint Hills Resources |
| Private Sector Member | Paul Glowacki | Murray Equipment, Inc. |
| Private Sector Member | Gordon Johnson | Gilbarco, Inc. |
| Private Sector Member | Dmitri Karimov | Liquid Controls |
| Private Sector Member | Yefim Katselnik | Dresser Wayne |
| Private Sector Member | Douglas Long | RDM Industrial Electronics |
| Private Sector Member | Andrew MacAllister | Daniel Measurement and Control |
| Private Sector Member | Daniel Maslowski | LTS Sales |
| Private Sector Member | Wade Mattar | Invensys / Foxboro |
| Private Sector Member | Richard Miller | FMC Technologies Measurement Solutions, Inc. |
| Private Sector Member | Donald Mundorff | Badger Meter Scottsdale |
| Private Sector Member | Andre Noel | Neptune Technology Group, Inc. |
| Private Sector Member | Henry Oppermann | Weights & Measures Consulting, LLC |
| Private Sector Member | Johnny Parrish | Brodie International |
| Private Sector Member | Dan Peterson | Yokogawa Corporation of America |
| Private Sector Member | Richard Tucker | RL Tucker Consulting, LLC |

| NTETC Software Sector | | |
|------------------------------|---------------------------|--|
| Office | Name | Affiliation |
| Chair | James Pettinato | FMC Technologies Measurement Solutions, Inc. |
| Technical Advisor | Doug Bliss | Mettler-Toledo, Inc. |
| Secretary | Teri Gulke | Liquid Controls, LLC |
| NTEP Administrator | Jim Truex | NCWM Headquarters |
| Public Sector Member | Dennis Beattie | Measurement Canada |
| Public Sector Member | TBD | Maryland |
| Public Sector Member | Ken Jones | California |
| Public Sector Member | Joe Morrison | Ohio |
| Public Sector Member | Eric Morabito | New York |
| Public Sector Member | Edward Payne | Maryland |
| Public Sector Member | John Roach | California |
| Public Sector Member | Zacharias Tripoulas | Maryland |
| Public Sector Member | Ambler Thompson | NIST, Office of Weights and Measures |
| 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 | Cassie Eigenmann | DICKEY-john Corporation |
| 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 | Rick Lydon | Sick, Inc. |
| Private Sector Member | Richard Miller | FMC Technologies Measurement Solutions, Inc. |
| Private Sector Member | Christopher (Adam) Oldham | Gilbarco, Inc. |
| Private Sector Member | Michael Parks | Vulcan Materials Company |
| 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 |

| NTETC Weighing Sector | | |
|------------------------------|---------------------|---|
| Office | Name | Affiliation |
| Chair | TBD | |
| Technical Advisor | Rick Harshman | NIST, Office of Weights and Measures |
| NTEP Administrator | Jim Truex | NCWM Headquarters |
| Public Sector Member | L. Cary Ainsworth | USDA, GIPSA |
| Public Sector Member | Luciano Burtini | Measurement Canada |
| Public Sector Member | Tina Butcher | NIST, Office of Weights and Measures |
| Public Sector Member | Fran Elson-Houston | Ohio |
| Public Sector Member | Ken Jones | California |
| Public Sector Member | Jack Kane | Montana |
| Public Sector Member | Edward Payne | Maryland |
| Public Sector Member | Zacharias Tripoulas | Maryland |
| Public Sector Member | Bryon School | USDA, GIPSA, FGIS |
| Public Sector Member | Tim Tyson | Kansas |
| Public Sector Member | Juana Williams | NIST, Office of Weights and Measures |
| Private Sector Member | Steven Beitzel | Systems Associates, Inc. |
| Private Sector Member | Greg Bredahl | Thermo Fisher Scientific |
| 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 | Robert Feezor | Scales Consulting and Testing |
| Private Sector Member | Scott Henry | Motorola Solutions, Inc. |
| Private Sector Member | Sam Jalahej | Totalcomp, Inc. |
| Private Sector Member | Rafael Jimenez | Association of American Railroads Transportation Technology Center, Inc. |
| Private Sector Member | Stephen Langford | Cardinal Scale Manufacturing, Co. |
| Private Sector Member | Paul A. Lewis, Sr. | Rice Lake Weighing Systems, Inc. |
| Private Sector Member | L. Edward Luthy | Stock Equipment Company Schenck Process Transport N.A. |
| Private Sector Member | Nigel Mills | Hobart Corporation |
| Private Sector Member | Wayne Pugh | OCS Checkweighers, Inc. |
| Private Sector Member | Louis Straub | Fairbanks Scales, Inc. |
| 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: 785-862-2415 Email: sherry.turvey@kda.ks.gov | Annual Meeting: May 19-22, 2014 St. Louis, MO Interim Meeting: |

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 • Rhode Island • Vermont • Puerto Rico | James Cassidy City of Cambridge Weights and Measures Department Phone: (617) 349-6133 Email: jcassidy@cambridgema.gov | Annual Meeting: May 5-8, 2014 Manchester, NH Interim Meeting: |

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 | Stephen Benjamin North Carolina Department of Agriculture Phone: (919) 733-3313 Email: steve.benjamin@ncagr.gov | Annual Meeting: TBD North Carolina |

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 | Jason Barber Director of Internal Services and Consumer Protection (ISCP) Phone: (503) 986-4767 Email: jbarber@oda.state.or.us | Annual Meeting: September 14-18, 2014 Portland, OR |

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 |

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 Section H of the introductions to *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2013 Edition*; and *NIST Handbook 130 Uniform Laws and Regulations In the Areas of Legal Metrology and Engine Fuel Quality, 2013 Edition*. The Committees have not determined whether the items presented will be Voting or Informational in nature; these determinations will result from their deliberations at the Interim Meeting.

The agendas:

1. include items brought to the attention of the Standing Committees prior to the submission deadline of November 1, 2012, and approved for inclusion in their agendas by the Committees; and
2. serve as the basis for the Standing Committee Interim Reports; to be printed in the program and Committee reports of the *National Conference on Weights and Measures 98th Annual Meeting, NCWM Publication 16*. The final reports of the Committees will be published in the *National Institute of Standards and Technology Special Publication, Report of the 98th National Conference on Weights and Measures Annual Report*, following the 99th Annual Meeting scheduled for July 13-17, 2014 at the Westin Book Cadillac Detroit in Detroit, Michigan.

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 19, and Wednesday, January 22, 2014. 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*, to be posted to NCWM website at www.ncwm.net in early April. Printed copies of *NCWM Publication 16* will be distributed to meeting attendees at the Annual Meeting in July.

ANNUAL MEETING

NCWM 99th Annual Meeting will be held at the Westin Book Cadillac Detroit in Detroit, Michigan, July 13-17, 2014.

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.

