

THE NEW COMPONENT

NORTHEASTERN WEIGHTS AND MEASURES ASSOCIATION

Chairperson, Walt Remmert, State of Pennsylvania Since 1972

Editor, James McEnerney - State of CT

ISSUE 50

NEWMA NEWSLETTER

MARCH 2019

REMINDER

Registration is now open, the only way to register is **ONLINE FOR THE MEETING** the link is:

<https://www.newma.us/meetings/annual/registration> This is a very easy process and you have 2 options on how to pay with your Credit Card or by mailing a check, just follow the website it will guide you. If you are paying with a check as soon as you register you will receive by email your confirmation and invoice.

For this meeting the Registration Fee amount will be \$250.00, before May 12, 2019, \$300.00 after May 12, 2019.

Website: <https://www.newma.us>

NORTHEASTERN WEIGHTS & MEASURES ASSOCIATION OFFICERS 2018 - 2020

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Vice Chairperson

Bradford Bachelder- State of Maine

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James Cassidy - Commonwealth of Massachusetts

Secretary

James McEnerney - State of Connecticut

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John Gaccione - Westchester County, NY

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Ethan Bogren- Westchester County, NY

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Nominating

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John Gaccione - Westchester County, NY

Events

NEWMA Annual Meeting 2019

MAY 13 - 16, 2019

Residence Inn by Marriott

Downtown/Waterfront

145 Fore Street

Portland, ME 04101

P. (207) 761-1660

Reservation Deadline: April 10, 2019

Room Rate: \$110.00/per night + tax

Group Code: NEWMA

Online Reservations: [Book Here](#)

For phoned-in reservations call (207) 761-1660

Parking: \$ 22 daily Valid until 11:00 a.m. on day of departure then \$5/hr. Garage height: 7' 4"

NEWMA Contact

Host: James Cassidy

Director of Standards

Commonwealth of Massachusetts

One Ashburton Place, Room 1115, Boston, MA. 02108

P. 617-933-1131

E. James.Cassidy@mass.gov

DATES TO REMEMBER

104th NCWM Annual Meeting July 14-18, 2019

Hyatt Regency Milwaukee
333 W Kilbourn Avenue
Milwaukee, WI 53203
P. (414) 276-1234

The cut-off date is: June 21, 2019
Group Code: G-NCWM
Online Reservations: [Click Here](#)
Registration Close: July 13, 2019

NEWMA Interim Meeting 2019 TBD

NCWM Interim Meeting 2020 January 26 - 29, 2020

The Mission Inn Hotel & Spa
3649 Mission Inn Avenue
Riverside, CA 92501
P. (951) 784-0300
The reservation deadline is **January 2, 2020**
Room Rate: \$139.00/per night + tax
Group Code: TBA
Registration Close: January 24, 2020

2019 NEWMA Annual Meeting **Schedule of Events**

May 13 thru May 16, 2019

Monday, May 13, 2019

8:30 a.m. - 5:00 p.m. Registration
10:30 a.m. – 11:45 a.m. Executive Board Meeting
1:00 p.m. Call to Order and Introductions
Walt Remmert, Pennsylvania, NEWMA Chair
James Cassidy - Commonwealth of Massachusetts
1:15 p.m. L& R Committee Opening Hearings
Lou Sakin, Chair, Town of Hopkinton MA
3:00 p.m. Break
3:15 p.m. L& R Committee Opening Hearings (cont'd)
3:30 p.m. S&T Committee Open Hearing
Brad Bachelder, Chair, State of Maine
5:00 p.m. Adjourn

Tuesday, May 14, 2019

8:30 a.m. - 1:00 p.m. Registration
8:30 a.m. S&T Committee Open Hearing (cont'd)
Brad Bachelder, Chair, State of Maine
9:30 a.m. Professional Development Committee
Open Hearing
Marc Paquette- Chair, State of Vermont
10:30 a.m. Morning Break
10:45 a.m. Board of Directors/NTEP Open Hearing
Jimmy Cassidy- Commonwealth of Massachusetts
Jack Walsh, Town of Wellesley, MA
12:00 p.m. Lunch on Your Own
1:20 p.m. Opening Ceremonies
Walt Remmert, Pennsylvania, NEWMA Chair
Agriculture Commissioner, Amanda Beal
Maine Department of Agriculture, Conservation
and Forestry
Brett Gurney, NCWM Chair
Craig VanBuren, NCWM Chair-Elect
Dr. Doug Olson, Chief, NIST OWM
2:15 p.m. Break

Tuesday, May 14, 2019 (cont'd)

2:30 p.m. Scale Manufacturers Association
Roundtable, Louis Straub, Fairbanks Scales

3:00 p.m. Updates on Ethanol Products
Kristy Moore, KMoore Consulting LLC

3:15 p.m. Updates on Bio Fuel Products
Rebecca Richardson, MARC IV Consulting

3:30 p.m. Committee's Work Session

5:30 p.m. Adjourn

Wednesday, May 15, 2019

9:00 a.m. NIST Training – Transfer Standards
Rick Harshman, NIST OWM

10:30 a.m. NIST Roundtable

Dr. Doug Olson, Chief, NIST OWM

12:00 p.m. Lunch

1:30 p.m. Final Committee Reports & Voting
L& R Committee

Chair Lou Sakin, Town of Hopkinton MA

3:30 p.m. Break

3:45 p.m. Final Committee Reports & Voting (cont'd)

Professional Development Committee

Mark Paquette, Chairperson, State of Vermont

Board of Directors/NTEP Committee

Jack Walsh, Town of Wellesley, MA

Jim Cassidy, City of Cambridge, MA

5:00 p.m. Adjourn

Thursday May 16, 2019

9:30 a.m. Final Committee Reports

10:30 a.m. NEWMA Business Meeting

Walt Rimmert, Pennsylvania, NEWMA Chair

Secretary's Report / Treasurer's Report

James Cassidy, City of Cambridge, MA

New Business Open discussion

2019 - 2020 Meeting Schedules Updates

11:30 a.m. Unfinished Business

12:00 p.m. Adjourn

2019 NCWM Interim Meeting L&R

Committee Item Report

BLOCK 1 ITEMS (B1) MULTIUNIT PACKAGE LABELING, MAV FOR MULTI-UNIT & VARIETY PACKAGES AND HANDBOOK 133, CHAPTER 5, SPECIALIZED TEST PROCEDURES

B1: PAL-1 Handbook 130, Uniform Packaging and Labeling Regulation, Section 2.8. Multiunit Package

B1: NET-1 Handbook 133: Section 1.2.4. Maximum Allowable Variation

B1: NET-2 Handbook 133, Sections 2.1. Scope, 3.1. Scope, 4.1. Scope and Section 2.3.7.1. Maximum Allowable Variation (MAV) Requirement.

B1: NET-3 Handbook 133, Chapter 5. Specialized Test Procedures

MOS – UNIFORM REGULATION FOR THE METHOD OF SALE COMMODITIES

MOS-5 Section 1. Food Products and Section 2. Non-Food Products

MOS-7 Section 2.4. Fireplace and Stove Wood

MOS-8 D Section 2.XX. Non-Utility Transactions of Electrical Energy (Other than Vehicle Fueling Applications)

ODR – UNIFORM OPEN DATING REGULATION

ODR-1 Section 1. Purpose, Scope and Application, Prohibited and Acceptable Terms, Section 2.

Definitions, Section 3. Sale of Perishable Food and Date Determination, Section 4. Sale of Semi

Perishable and Long Shelf Life Food with "BEST If Used By" Opening Date., Section 5. Placement of the "USE By" or "BEST If Used by Date, Section 6. Factors for the Date Determination of "USE By" or BEST If Used By" Dates, Section 7. Records., Section 8.

Exemptions, Section 9. Preemption of Local, County, and Municipal Ordinance and Section 10. Effective Date

BLOCK 5 ITEMS (B5) REMOVE OPEN DATING REGULATION FROM NIST HANDBOOK 130

B5: WAM-1 Section 9. Requirements for Open Dating and Section 12. Powers and Duties of the Director

B5: ODR-2 Uniform Open Dating Regulation

2019 NCWM Interim Meeting L&R
Committee Item Report (cont'd)

BLOCK 2 ITEMS (B2) KEROSENE, LPG, AND FUELS, LUBRICANTS AND AUTOMOTIVE PRODUCTS, CNG, LNG AND DEF

B2: MOS-1 A Uniform Regulation for the Method of Sale of Commodities, Background and Sections Related to Kerosene, LPG, and Fuels, Lubricants and Automotive Products, CNG, LNG and DEF

B2: FLR-1 A Uniform Fuels and Automotive Lubricants Regulation, Background and various sections related to fuels

BLOCK 3 ITEMS (B3) ENGINE FUELS AND AUTOMOTIVE LUBRICANTS INSPECTION LAW, SECTION 8.6. METHOD OF SALE, SECTION 2.33 OIL. FUELS AND AUTOMOTIVE REGS. SECTIONS 2.12 ENGINE (MOTOR OIL), 3.13 OIL, AND 7.2. TEST METHODS AND REPRODUCIBILITY LIMITS

B3: FLL-1 A Section 8. Prohibited Acts

B3: MOS-4 A Section 2.33. Oil

B3: FLR-5 A Sections 2.12. Engine (Motor) Oil, 3.13. Oil and 7.2. Reproducibility Limits

BLOCK 4 ITEMS (B4) TRACTOR HYDRAULIC FLUID

B4: MOS-6 Regulation for the Uniform Method of Sale of Commodities Regulation: Section 2.XX Tractor Hydraulic Fluid

B4: FLR-6 Uniform Fuels and Automotive Lubricants Regulation, Sections 1.XX. Tractor Hydraulic Fluid, 1.XX. Hydraulic Fluid, 2.XX. Products for Use in Lubricating Tractors and 3.XX. Tractor Hydraulic Fluid

FLR – UNIFORM FUELS AND AUTOMOTIVE LUBRICANTS REGULATION

FLR-7 Section 2.2. Diesel Fuel

FLR-8 Section 3.2.5. Prohibition of Terms

OTH – OTHER ITEMS

OTH-1 D Fuels and Lubricants Subcommittee

OTH-2 D Packaging and Labeling Subcommittee

2019 NCWM Interim Meeting L&R
Committee Item Report (cont'd)

POL – NCWM POLICY, INTERPRETATIONS AND GUIDELINES

POL-1 2.3.2. Fresh Fruits and Vegetables

POL-2 D 2.6.XX. Methods of Sale for Packages of Consumer Commodities – Federal Trade Commission (FTC) and Acceptable Common or Usual Declarations for Packages of Food – Food and Drug Administration (FDA)

NET – HANDBOOK 133

NET-4 3.4. Volumetric Test Procedures for Viscous Fluids - Headspace

NET-5 3.7. Volumetric Test Procedure for Paint, Varnish and Lacquers – Non-Aerosol

NET-6 Section 4.8. Procedure for Checking the Area Measurement of Chamois

NET-7 D Section 4.XX. Softwood Lumber

NET-8 D Section 4.XX. Plywood and Wood-Based Structural Panels

NET-9 D Recognize the Use of Digital Density Meters

NCWM S&T 2019 Interim Report

Brad Bachelder, NEWMA S&T Chairman, Maine

GENERAL CODE

GEN-1 I G-A.1. Commercial and Law-Enforcement Equipment. And G-S.2. Facilitation of Fraud

GEN-3 A G-T.5. Tolerances on Tests When Transfer Standards are Used, Appendix D – Definitions: standards, field, transfer standard, and standard, transfer

SCALES

SCL-1 V S.1.1.1. Digital Indicating Elements. and UR.2.10. Primary Indicating Elements Provided by the User

SCL-2 A S.1.8.5. Recorded Representations, Point of Sale Systems

NCWM S&T 2019 Interim Report (cont'd)

SCALES (cont'd)

SCL-3 A Sections Throughout the Code to Include Provisions for Commercial Weigh-in-Motion Vehicle Scale Systems

SCL-6 D UR.3.11. Class II Scales

SCL-7 V T.N.3.6. Coupled-In-Motion Railroad Weighing Systems., T.N.4.6. Time Dependence (Creep) for Load Cells during Type Evaluation., UR.5. Coupled-in-Motion Railroad Weighing Systems. and Appendix D –Definitions: point-based railroad weighing systems

BELT-CONVEYOR SCALE

BCS-1 V S.1.3. Value of the Scale Division., S.1.9. Zero-Ready Indicator., S.4.Accuracy Class., S.45. Marking Requirements., N.1. General., N.2. Conditions of Test., T.1. Tolerance Values., T.2. Tolerance Values. and UR.3. Maintenance Requirements –Scale and Conveyor Maintenance

AUTOMATIC BULKWEIGHING SYSTEMS

ABW-3 D A. Application, S Specifications, N. Notes, UR. User Requirements and Appendix D –Definitions: automatic bulk weighing system

AUTOMATIC WEIGHING SYSTEMS

AWS-3 V S.3.2. Load Cell Verification Interval Value

WEIGH-IN-MOTION SYSTEMS USED FOR VEHICLE ENFORCEMENT SCREENING TENTATIVE CODE

WIM-1 D Title of Tentative Code, S.1.7.1. Values to be Recorded., S.4.1. Designation of Accuracy., N.1. Test Procedures, T.2. Tolerance Values for Accuracy Class A Classes., UR.1.1. General, Table 1. Typical Class or Type of Device for Weighing Applications

BLOCK 1 ITEMS (B1) TERMINOLOGY FOR TESTING STANDARDS

B1: SCL-4 A N.2. Verification (Testing) Standards

B1: ABW-1 A N.2. Verification (Testing) Standards

B1: AWS-1 A N.1.3. Verification (Testing) Standards, N.3.1. Official Tests, UR.4. Testing Standards

B1: CLM-1 A N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards

NCWM S&T 2019 Interim Report (cont'd)

BLOCK 1 ITEMS (B1) TERMINOLOGY FOR TESTING STANDARDS (cont'd)

B1: CDL-1 A N.3.2. Transfer Standard Test, T.3. On Tests Using Transfer Standards

B1: HGM-1 A N.4.1. Master Meter (Transfer) Standard Test, T.4. Tolerance Application on Test Using Transfer Standard Test Method

B1: GMM-1 A 5.56(a): N.1.1. Air Oven Reference Method Transfer Standards, N.1.3. Meter to Like-Type Meter Method Transfer Standards and 5.56(b): N.1.1. Transfer Standards, T. Tolerances1

B1: LVS-1 A N.2. Testing Standards

B1: OTH-1 A Appendix A: Fundamental Considerations, 3.2. Tolerances for Standards, 3.3. Accuracy of Standards

B1: OTH-2 A Appendix D –Definitions: fifth-wheel, official grain samples, transfer standard and Standard, Field

BLOCK 2 ITEMS (B2) DEFINE “FIELD REFERENCE STANDARD

B2: CLM-2 A N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards

B2: CDL-2 A N.3.2. Transfer Standard Test and T.3. On Tests Using Transfer Standards

B2: HGM-2 A N.4.1. Master Meter (Transfer) Standard Test and T.4. Tolerance Application on Test Using Transfer Standard Test Method

B2: OTH-3 A Appendix D –Definitions: field reference standard meter and transfer standard

BLOCK 3 ITEMS (B3) ADDRESS DEVICES AND SYSTEMS ADJUSTED USING A REMOVABLE DIGITAL STORAGE DEVICE

B3: GEN-2 V G-S.8.2. Devices and Systems Adjusted Using Removable Digital Device Storage

B3: SCL-5 V S.1.11. Provision for Sealing

B3: BCS-1 V S.5. Provision for Sealing

B3: ABW-2 V S.1.6. Provision for Sealing Adjustable Components on Electronic Devices

NCWM S&T 2019 Interim Report (cont'd)

BLOCK 3 ITEMS (B3) ADDRESS DEVICES AND SYSTEMS ADJUSTED USING A REMOVABLE DIGITAL STORAGE DEVICE (cont'd)

- B3: AWS-2 V S.1.3. Provision for Sealing
- B3: LMD-1 V S.2.2. Provision for Sealing
- B3: VTM-2 V S.2.2. Provision for Sealing
- B3: LPG-1 V S.2.2. Provision for Sealing
- B3: HGV-1 V S.2.2. Provision for Sealing
- B3: CLM-2 V S.2.5. Provision for Sealing
- B3: MLK-1 V S.2.3. Provision for Sealing
- B3: WTR-1 V S.2.1. Provision for Sealing
- B3: MFM-1 V S.3.5. Provision for Sealing
- B3: CDL-3 V S.2.5. Provision for Sealing
- B3: HGM-3 V S.3.3. Provision for Sealing
- B3: EVF-1 V S.3.3. Provision for Sealing
- B3: TIM-1 V S.4. Provision for Sealing
- B3: GMA-1 V S.2.5. Provision for Sealing
- B3: MDM-1 V S.1.11. Provision for Sealing

BLOCK 4 ITEMS (B4) AUTOMATIC TIMEOUT SPECIFICATIONS

- B4: MFM-3 V S.2.9. Automatic Timeout –Pay-At-Retail Motor-Fuel Devices
- B4: HGM-4 V S.2.8. Automatic Timeout –Pay-At-Vehicle Fuel Dispensers
- B4: EVF-2 V S.2.8. Automatic Timeout –Pay-At-EVSE

BLOCK 5 ITEMS (B5) REPEATABILITY TESTS AND TOLERANCES

- B5: LMD-2 V N.4.1.2.N.4.6. Repeatability Tests. and T.3. Repeatability
- B5: VTM-3 V N.4.1.2.N.4.6. Repeatability Tests. and T.3. Repeatability
- B5: LPG-4 V N.4.1.2.N.4.6. Repeatability Tests. and T.3. Repeatability
- B5: HGV-2 V N.4.1.2.N.4.3. Repeatability Tests. and T.2. Repeatability

NCWM S&T 2019 Interim Report (cont'd)

BLOCK 5 ITEMS (B5) REPEATABILITY TESTS AND TOLERANCES (cont'd)

- B5: CLM-3 V N.5.1.1.N.5.3. Repeatability Tests. and T.4. Repeatability
- B5: MLK-2 V N.4.1.1.N.4.4. Repeatability Tests. and T.3. Repeatability
- B5: WTR-2 V N.4.1.1.N.4.4. Repeatability Tests
- B5: MFM-6 V N.6.1.1.N.6.3. Repeatability Tests. and T.3. Repeatability
- B5: CDL-4 V N.4.1.1.N.4.5. Repeatability Tests. and T.2.1. Repeatability
- B5: HGM-5 V N.6.1.1. N.6.2. Repeatability Tests. and T.3. Repeatability

LIQUID MEASURING DEVICES

LMD-3 V A.1. General., S.2.5. Zero-Set-Back Interlock, for Retail Motor-Fuel Devices., S.4. Marking Requirements., S.5. Zero-Set-Back Interlock, for Retail Motor-Fuel Devices., UR.2.4. Diversion of Liquid Flow. and UR.2.5. Product Storage Identification

LMD-4 W Airport Refueling Systems –Agreement of Indications and Reset to Zero

LMD-5 V UR.3.4. Printed Ticket

VEHICLE TANK METERS

VTM-1 V S.3.1.1. Means for Clearing the Discharge Hose and UR.2.6. Clearing the Discharge Hose

LPG AND ANHYDROUS AMMONIA LIQUID-MEASURING DEVICES

LPG-2 V S.2.5. Zero-Set-Back Interlock, Stationary and Vehicle Mounted Meters, Electronic

LPG-3 A N.3. Test Drafts

MASS FLOW METERS

MFM-2 V S.1.3.3. Maximum Value of Quantity-Value divisions

MFM-4 V S.5.1. Location of Marking Information; Retail Motor-Fuel Dispensers

MFM-5 A N.3. Test Drafts

NCWM S&T 2019 Interim Report (cont'd)

HYDROGEN GAS-MEASURING DEVICES

HGM-6 V Tentative Code Status and Preamble., A.2.(c) Exceptions., N.2 Test Medium., N.3. Test Drafts., N.4.1. Master Meter (Transfer) Standard Test., N.4.2. Gravimetric Tests., N.4.3 PVT Pressure Volume Temperature Test., N.6.1.1. Repeatability Tests., T.3. Repeatability., T.6. Tolerance –Minimum Measured Quantity (MMQ). and Appendix D. Definitions where applicable

ELECTRIC VEHICLE FUELING SYSTEMS

EVF-3 D S.3.5. Temperature Range for System Components. and S.5.2. EVSE Identification and Marking Requirements

EVF-4 V Appendix D –Definitions: power factor (PF)

TAXIMETERS

TXI-1 V N.1.3.2. Taximeters Using Other Measurement Data Sources

GRAIN MOISTUREMETERS 5.56 (A)

GMA-2 V Table S.2.5. Categories of Devices and Methods of Sealing

GMA-3 D Table T.2.1. Acceptance and Maintenance Tolerances Air Oven Method for All Grains and Oil Seeds

MULTIPLE DIMENSION MEASURING DEVICES

MDM-2 W S.1.7. Minimum Measurement

TRANSPORTATION NETWORK SYSTEMS

TNS-1 D A.4. Type Evaluation

OTHER ITEMS

OTH-4 D Electric Watthour Meters Code under Development

OTH-5 V Appendix D –Definitions: Batch (Batching)

The committee recommends to move the GEN-1 security requirements from the General Code as originally proposed into the Liquid Measuring Device Code and add a new section titled UR.4.2. Security for Retail Motor-Fuel Devices (RMFD) to the User Requirements section of the LMD code.

The committee recommends combining GEN-3, B1, B2, LPG-3, and MFM-5 as a block and give it Assigned Status.

NCWM S&T 2019 Interim Report (cont'd)

The task group or work group would consist of the submitter of the items as well as W & M officials and other stakeholders.

SCL-1: Voting with SMA changes, Non-retroactive 2021

SCL-7: Committee added statement regarding W&M jurisdiction.

HGM-6: Voting with the removal of N.4.1 and N.4.1.1

OTH-5: Voting with the removal of the words “summation of”

2019 NEWMA

Professional Development Committee Report

Marc Paquette NEWMA Chair, Vermont

The Professional Development Committee (PDC) had a very successful meeting and enthusiastic working sessions at the interim NCWM meeting in Charleston S.C. The committee continues to move forward on several issues in collaboration with the Board of Directors and NCWM leadership.

EDU-1 Professional Certification Program

All professional certification exams are now required to be proctored. The committee received feedback from several jurisdictions regarding the implementing of the proctoring system. One jurisdiction reported a flawless process that is now in place while another stated great difficulty in making this happen. The committee hopes that over time all participating jurisdictions will have a smooth process in place for the proctoring of these exams. Participation in this program remains strong with continued interest in expanding the subject matter offered.

At the 2019 Interim meeting it was announced that the current Certification Coordinator Ross Anderson will be retiring after the NCWM Annual meeting. In anticipation of this retirement, Jerry Buendel WA-Retired has been working closely with Mr. Anderson and has agreed to take over as the Coordinator. Mr. Anderson has provided outstanding service to the committee and Conference with the development and growth of this program. The current ongoing transition

2019 NEWMA
Professional Development Committee Report
(cont'd)

to Mr. Buendel as Certification Coordinator will ensure continuity and success of this valuable program.

EDU-2 | Training

NIST/OWM staff were unable to attend the interim meeting, however the OWM will be offering many training opportunities during 2019. The NIST Laboratory Program will be offering trainings including the Combined Regional Measurement Assurance Program in Lake Mary, Florida 6-2-19 – 6-6-2019. This combined lab training will be for all state program metrology lab staff throughout the country and takes place once every five years. NIST will also be offering training on Packaging, Price Verification, and Devices. A complete listing of upcoming OWM training events can be found at:

<https://www.nist.gov/pml/weights-and-measures/about-owm/calendar-events>

EDU-3 | Instructor Improvement

NIST/OWM staff were unable to attend the interim meeting however NIST staff has expressed appreciation for trainers who give of their time and expertise and directors who allow the trainers time away to assist with these courses.

EDU-4 Recommended Topic for Conference Training

At the Interim Meeting the following suggestions from the floor were suggested:

- Investigative Reporting
- D.E.F. Testing requirements, special considerations (handling, safety, equipment)
- Differentiation between weight classifier and normal rounding scales
- Organizing/publishing existing training materials

2019 NEWMA
Professional Development Committee
Report (cont'd)

PMT-1 | Safety Awareness

The Board of Directors created the Safety Task Group to develop a safety tool kit to help W&M organizations create or improve their own safety programs. The toolkit is complete and is posted on the NCWM website at:

<http://www.ncwm.net/resource/safety>

Current Events

At the interim meeting in October it was suggested that new weights and measures issues be sent to either Jimmy Cassidy james.cassidy@state.ma.us or to Jim McEnerney james.mcenerney@ct.gov for a quarterly newsletter to help the inspectors stay on top of their game.

This is a contactless skimmer it uses NFC reader on the outside of the pump to obtain the card number and the primary account number over the air.

