

Inside this Issue

The OWM Website is Getting a New Look - BETA Launch is Here! 1

Training and Events Calendar 5

Publications:

NIST Office of Weights and Measures Publishes Fuel and Motor Oil Sampling Handbook for Field Officials 5

Just for Fun:

Did You Know There is a National Crayon Day! 7

**NATIONAL CONFERENCE
ON WEIGHTS AND
MEASURES**

101TH ANNUAL MEETING**JULY 24 - 28, 2016****DENVER, COLORADO**

Registration and lodging information for the July meeting is available online at:
https://www.ncwm.net/sems/event_detail/2016-annual-co.

The meeting schedule, and supporting documents are also available at this website location.

**OFFICE OF WEIGHTS
AND MEASURES**

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THE OFFICE OF WEIGHTS AND MEASURES (OWM)

**Our Website is Getting a
New Look**

BETA Launch is Here!

Byline: Isabel Chavez and Linda Crown

The White House has ordered all public federal websites to make the transition to a secure and significant credible enterprise-level-web content management system. By migrating from the CommonSpot content management system (CMS) to Drupal (CMS) NIST will be in compliance and would be able to serve effectively and efficiently the American Public.

The site was constructed to smoothen the browsing experience and boost the mobile interfaces for its millions of annual visitors. This concept is more important than ever as more and more devices access webpages with more diverse capabilities and screen sizes. For example, the major factor for the minimalist layout and/or design of the new site is so customers will be able to browse from a tablet or mobile device.

NIST BETA launch of our new Drupal web site was released on May 31, 2016. This BETA launch is the first phase of a long-term effort to unify NIST's web pages with a secure, modern look and functionality.

WHAT DOES BETA LAUNCH MEAN?

The BETA launch means that the Drupal site will be accessible to an external audience (the public). It will give our external audience the chance to comment and provide feedback on the new site. We will add a link to the Drupal site from the top of the current <http://www.nist.gov> website (first option for access to the BETA site). At the same time, the current CommonSpot site will remain as the NIST primary website while we continue to make improvements based off of customer feedback.

There are multiple ways to get to the OWM main webpage; however, in this examples. Let's begin at the the Office of Weights and Measures webpage at: <http://www.nist.gov/pml/wmd/index.cfm>. From this webpage, you will notice a top banner with the option to visit the BETA site. If you choose to visit the BETA site, the button will connect to you the BETA version of the NIST homepage.

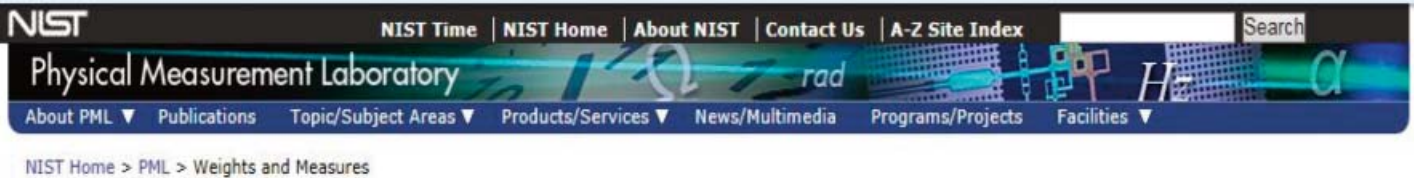
Now, let me explain what major changes you will see in those pages.

Continued on pg 2

Take a sneak peek at the new NIST.gov and let us know what you think!

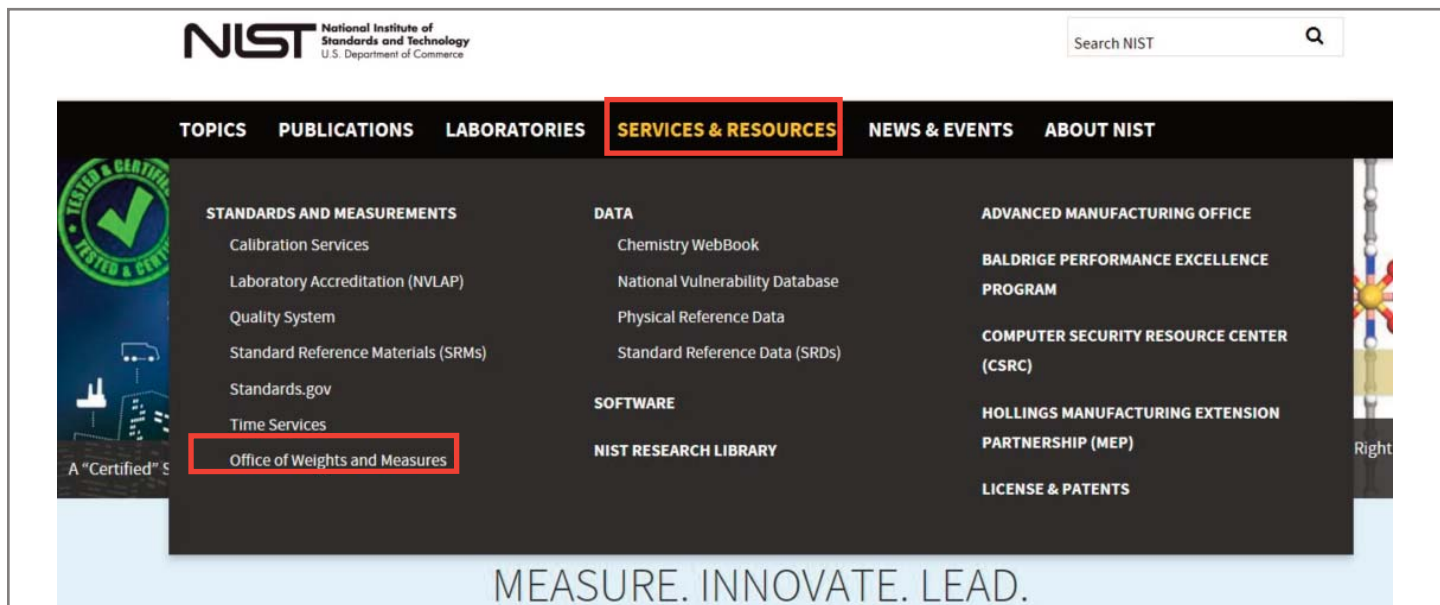
(Please note: some content may not be complete on the beta site.)

[View the beta site](#)



1. Click on the button “View the beta site,” or you can use the following URL:
<https://www2.nist.gov/pml/weights-and-measures>.

(Note: This is a temporary link while in BETA version.)



You are now on the new BETA version of the NIST main webpage. (Note: For smartphones, tablets, monitors, etc. with a smaller screen size (less than 20 inches), the page will render differently. Please see page 8 for that view.)

2. Click on “Services and Resources.”
3. Click on “Office of Weights and Measures.”

You are now on the OWM homepage.




Continues on pg 3

4. To browse within the OWM webpages (test site: <https://www2.nist.gov/pml/weights-and-measures>), you will need to use the **left column as your guide (menu)**. This column is visible on most pages with the exception of the **“Training Event”** pages.
5. **“Publications”** menu will include NIST Handbooks, NIST Special Publications, Internal Reports (NISTIR), Metric Publications and NCWM Annual Reports.
6. Plus Sign (+) = means that there is a drop down sub-menu underneath.

7. The Metric (SI) System is under the **“Programs”** Menu (below).

8. All **“Topics Areas”** were moved to their respective program, for example **“Packaging and Labeling”** is under **Programs → Laws → Packaging and Labeling**.
9. **“Resources”** and **“Of Interest”** are under the **“Resources”** Menu.
10. **“OWM Calendar of Events”** enable a search for OWM learning events in three ways.
 - a. On the middle of the page you will see a snapshot of current **“Events”**; this lists the next three to four events coming up.
 - b. By clicking on **“View More Events”** (right side of the calendar) link, it will take you to all OWM web events.

Continued on pg 4



EVENTS

[View More Events](#)

Retail Motor-Fuel Dispensers and Consoles (Short Course)
MAY 23, 2016 TO MAY 26, 2016
This seminar will teach students how to properly inspect and test Retail Motor-Fuel Dispensers (RMFDs); that is, perform an official examination by properly...

Laboratory Administration Seminar
JUNE 06, 2016 TO JUNE 10, 2016
The laboratory administration seminar is designed for State weights and measures laboratory staff to help them fully meet the criteria of Handbook 143 and ISO/...

Volume Metrology Seminar
JUNE 13, 2016 TO JUNE 17, 2016
The OWM volume metrology seminar is designed to enable metrologists to apply fundamental measurement concepts to volume calibrations. A large percentage of...

Liquefied Petroleum Gas (LPG) Liquid-Measuring Systems Training
JUNE 13, 2016 TO JUNE 17, 2016
This five day seminar will teach students how to properly inspect and test LPG metering systems; that is, perform an official examination by properly applying...

c. About OWM includes the staff Directory and the old “Calendar of Events” format.

Laboratory Homepage

Division Homepage

About OWM -

Calendar of Events

Staff Directory

Programs +

Resources +

Publications +

Weights and Measures Calendar of Events

Start Date	End Date	Event Name	Class Number	Location	Format
May 2016					
05/02/2016	05/05/2016	WRAP**	5407	Los Angeles, CA	Seminar
05/16/2016	05/27/2016	Mass Metrology-Cancelled	5381	Gaithersburg, MD	Seminar
05/23/2016	05/26/2016	Retail Motor-Fuel Dispensers and Consoles (Short Course)	5404	Rapid City, SD	Seminar
June 2016					
06/06/2016	06/10/2016	Laboratory Administration Seminar*	5382	Gaithersburg, MD	Seminar
06/13/2016	06/17/2016	Liquefied Petroleum Gas (LPG) Liquid-Measuring Systems Training	5419	Raleigh, NC	Seminar
06/13/2016	06/17/2016	Volume Metrology Seminar	5398	Gaithersburg, MD	Seminar

Now, don't you want to see how it looks right now? You don't need to wait any longer! The pictures on pages 5 and 6 gives a comparison of what used to be and what will be in the OWM website.

Continued on pg 5

CHECK OUT THE NEW CLASSES ADDED TO THE TRAINING AND EVENTS CALENDAR FOR 2016.

Old Version with CommonSpot

Weights and Measures

Topic Areas

Conversions
Electric Vehicle Fueling and Submetering
Hydrogen
Metric (SI)
Packaging & Labeling
Price Verification
Proficiency Testing
Retail and Unit Pricing Laws
Publications
U.S. National Work Group on Taximeters

Of Interest

OWM Contacts System
Quick Guide for OWM Contacts System
How to Reset Password Using the Contacts System
How to Request Training & Transcript Using the Contacts System
How to Request Publications using OWM Contacts System

Welcome

The Office of Weights and Measures promotes uniformity in U.S. weights and measures laws, regulations, and standards to achieve equity between buyers and sellers in the marketplace. This enhances consumer confidence, enables U.S. businesses to compete fairly at home and abroad, and strengthens the U.S. economy.

OWM partners with the National Conference on Weights and Measures (NCWM), an organization of State and local weights and measures officials and representatives of business, industry, consumer groups, and Federal agencies, to develop U.S. standards in the form of uniform laws, regulations, and methods of practice. OWM serves as the U.S. representative to the International Organization of Legal Metrology (OIML) to bring efficiency and cost savings to U.S. manufacturers and other stakeholders doing business overseas, through the promotion of harmonized international standards and regulatory practices.

OWM ensures traceability of state weights and measures standards to the SI; develops procedures for legal metrology tests and inspections, and conducts training for laboratory metrologists and weights and measures officials. OWM provides guidance on the model weights and measures laws and regulations adopted by the NCWM and coordinates the development and publication of key NCWM publications.

It is estimated that sales of products or services impacted by weights and measures laws in the United States represent approximately 50 percent of the U.S. Gross Domestic Product. Industry sectors potentially affected by the decisions of the NCWM include retail food sales, other retail sales, petroleum products, transportation, and chemicals.

The NIST Office of Weights and Measures analyzes weights and measures training needs, obtains input from the weights and measures community, designs and delivers training for laboratory metrologists and weights and measures officials, measures the impact and effectiveness of training to ensure ongoing continual improvement, and consults with the weights and measures community to ensure ongoing professional development.

News

NIST Drafts Plug-and-Pay Standards

Programs

International Legal Metrology
Laboratory Metrology
Laws and Metric
Legal Metrology Devices

Resources

Training & Events Calendar
Contact Us
Education Resources
The National Conference on Weights and Measures (NCWM)
Weights and Measures Connection Newsletter
Weights and Measures Directory - Current Edition
State Directors
State Laboratories

Popular Links

99th Meeting - SP 1193 (2014)
Handbook 44 - Current Edition
Handbook 130 - Current Edition
Handbook 133 - Current Edition
Handbook 112 - Examination Procedure Outlines (Pending-updated)
Handbook 158 - Current Edition

Continued on pg 6

Training and Events Calendar 2016

Registration for training in the NIST Office of Weights and Measures is handled by Yvonne Branden at yvonne.branden@nist.gov.

Course descriptions can be viewed on the Office of Weights and Measures website at - <http://www.nist.gov/pml/wmd/calendar.cfm> and clicking on the name of the course.

June 13 - 17 (5 days)
Liquefied Petroleum Gas (LPG)
Liquid-Measuring Systems
Class No. 5419
Raleigh, NC

July 24 - 28 (5 days)
National Conference on Weights and Measures 101st Annual Meeting
Denver, CO
info@ncwm.net

August 8 - 12 (5 days)
Fundamentals of Metrology
Class No. 5417
NIST/Gaithersburg, MD

August 11 (2 hr)
Webinar
Contract Review
2:00 p.m. - 4:00 p.m.
Class No. 5383

August 22 - 26 (5 days)
Handbook 133 - Chapter 4, Dimensional Measurement
Class No. 5401
NIST/Gaithersburg, MD

August 23 - 24 (2 days)
NTEP Weighing Sector Meeting
Denver, CO
www.ncwm.net

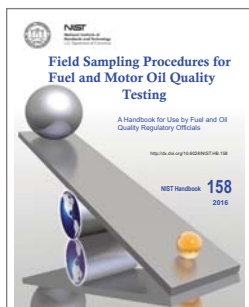
August 25 (2 hr)
Webinar - Document Control and Record-keeping
2:00 p.m. - 4:00 p.m.
Class No. 5384

September 11 - 15 (5 days)
WWMA Annual Meeting
Honolulu, HI
www.ncwm.net

September 13 - 14 (2 days)
NTEP Grain Analyzer Sector Meeting
Kansas City, MO
www.ncwm.net

(continued on pg 6)

Publications



NIST OFFICE OF WEIGHTS AND MEASURES PUBLISHES

FUEL AND MOTOR OIL SAMPLING HANDBOOK FOR FIELD OFFICIALS

NIST Handbook 158 "Field Sampling Procedures for Fuel and Motor Oil Quality Testing" describes uniform procedures for regulatory officials to use in collecting samples of fuel and motor oils for quality testing. Published on April 21, 2016, NIST Handbook 158 was developed for everyday use and includes detailed information on both sampling equipment and its use, with detailed guidance on sample collection, protection, and handling. Because of the Handbook's broad scope, a sampling official can use the equipment and procedures described in this handbook to take fuel samples from the storage tanks of a local service station or bulk plant, from transport vehicles, or from any type of retail fuel dispenser. Of special note are several alternative procedures for collecting samples from ethanol dispensers delivering E15 blends which have re-

continued on pg 7

New Version with Drupal

WEIGHTS AND MEASURES

To improve the accuracy of measurements, enhance consumer protection, foster fair competition, and facilitate economic growth and trade through technical activities that promote uniformity in national and international legal metrology laws, regulations, standards, test procedures, and enforcement.

Laboratory Homepage

Division Homepage

About OWM

Calendar of Events
Staff Directory

Programs

International Legal Metrology
Laboratory Metrology
Laws
Legal Metrology Devices
Metric (SI)

Resources

OWM Contacts System
State Directors A-C
State Laboratories A-C
States W&M Directory
The National Conference on Weights and Measures (NCWM)

Publications

W&M Connection Newsletter
NIST Handbooks
NIST Special Publications
Internal Reports (NISTIR)
Metric Publications
NCWM Annual Reports



Office of Weights and Measures (OWM)

OWM fulfills its mission through the following activities:

- Standards Development
 - Partnering with the National Conference on Weights and Measures (NCWM)
 - Representing the U.S. in the International Organization of Legal Metrology (OIML)
- Design and Delivery of Training
 - Metrology
 - Weights and Measures Law
 - Inspection Procedures
- Technical Guidance
- Publications and Outreach

EVENTS

[View More Events](#)

Retail Motor-Fuel Dispensers and Consoles (Short Course)

MAY 23, 2016 TO MAY 26, 2016

This seminar will teach students how to properly inspect and test Retail Motor-Fuel Dispensers (RMFDs); that is, perform an official examination by properly...

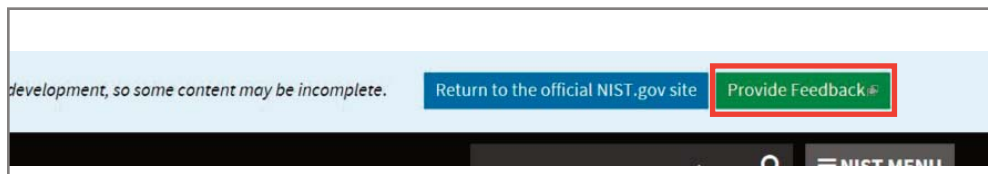
Laboratory Administration Seminar

JUNE 06, 2016 TO JUNE 10, 2016

The laboratory administration seminar is designed for State weights and measures laboratory staff to help them fully meet the criteria of Handbook 143 and ISO/...

Please take this opportunity to make use of the “**Provide Feedback**” button at the top of the web page. Let us know what you think about the redesign. Is it user friendly? Can you view the content on your mobile device? We are waiting to hear from you.

We hope this might help you navigate and understand the new site. If you have any questions or comments, please send them to Isabel Chavez at e-mail: isabel.chavez@nist.gov or respond by phone: (301) 975-2128.



The Office of Weights and Measures

will gladly include your weights and measures related events in our calendar.

Contact the Editor: Linda.Crown@nist.gov

September 14 (1 day)
NTEP Measuring Sector Meeting
Kansas City, MO
www.ncwm.net

September 19 - 22 (4 days)
NEMAP**
Class No. 5408
Concord, NH

September 20 - 21 (2 days)
NTEP Measuring Sector Meeting
Denver, CO
www.ncwm.net

September 27 (2 hr)
Webinar
Introduction to ADDIE Mode
2:00 p.m. - 4:00 p.m.
Class No. 5439

September 29 (2 hr)
Webinar
State Laboratory Annual Submission Process
2:00 p.m. - 4:00 p.m.
Class No. 5443

October 3 - 5 (3 days)
Central Weights and Measures Association (CWMA) - Interim Meeting
St. Charles, MO
Contact: Sherry Turvey at sherry.turvey@kda.ks.gov

October 3 - 6 (4 days)
SWAP**
Class No. 5409
Austin, TX

October 11 (2 hr)
Webinar
Introduction to Blooms Taxonomy and Learning Objectives
2:00 p.m. - 4:00 p.m.
Class No. 5440

October 17 - 20 (4 days)
MidMAP**
Class No. 5410
Columbus, OH

October 20 (2 hr)
Webinar - Internal Auditing Best Practices
2:00 p.m. - 4:00 p.m.
Class No. 5385

October 24 - November 4 (10 days)
Mass Metrology Seminar
Class No. 5386
NIST/Gaithersburg, MD

2017

January 19 (2 hr)
Webinar Documenting Traceability and Calibration Intervals
2:00 p.m. - 4 p.m.
Class No. 5444

(continued on pg 7)

cently entered the marketplace across the country. These alternative procedures were developed in collaboration with the leading manufacturers of the blending dispensers, state fuel quality officials, and biofuel experts to ensure that the E15 sample taken from the dispenser is representative of the product delivered to consumers. The handbook also includes a unique section which describes label inspection methods and sampling procedures for motor oil. This section will be especially useful to state regulatory programs that are already testing motor oils and those considering the implementation of an oil inspection program in order to stem the sale of misbranded engine oils, a problem of significance in parts of the country.

The new handbook is available at the following URLs:

<http://dx.doi.org/10.6028/NIST.HB.158>

<http://nvlpubs.nist.gov/nistpubs/hb/2016/NIST.HB.158.pdf>

[Point of Contact: Ken Butcher, Kenneth.butcher@nist.gov, x4859]

Just for Fun

DID YOU KNOW

THERE IS A NATIONAL CRAYON DAY!

Yes, there is a National Crayon Day. Each year March 31st is designated National Crayon Day. Crayola has been producing crayons since 1903 and have produced over 400 different shades of colored crayons. Since their beginnings, the company has produced 120 core crayon colors and additional themed sets in metallics, gem tones, bright, and some with scents added.

Did you know that most of Crayola's crayon color names are taken from a book called *Color: Universal Language and Dictionary of Names*? This 194 page book was published by the National Bureau of Standards (NBS), which is now the National Institute of Standards and Technology (NIST), in December 1976. Who would have known? What do you think of these color names Vinoso-Bubalinus, Morning Dawning Yellow, and Cinnamoneus?

Crayola crayons have been a part of our lives for generations and enjoyed by all ages from childhood through grandparenting. Coloring, what an enjoyable way to spend a dreary, rainy afternoon with your children or grandchildren - bring on the coloring books!

You can take a look at the color dictionary of color names for yourself here: <https://archive.org/stream/coloruniversalla00kell#page/n1/mode/2up>.

January 26 (2 hr)
Webinar
Software Verification and Validation
2:00 p.m. - 4:00 p.m.
Class No. 5445

January 30 - February 3 (5 days)
Fundamentals of Metrology (SIM ONLY)
Class No. 5449
NIST/Gaithersburg, MD

February 6 - 10 (5 days)
Fundamentals of Metrology
Class No. 5433
NIST/Gaithersburg, MD

February 13 - 17 (5 days)
Fundamentals of Metrology
Class No. 5434
NIST/Gaithersburg, MD

February 16 (2 hr)
Webinar - Conducting an Effective Management Review
2:00 p.m. - 4:00 p.m.
Class No. 5416

February 23 (2 hr)
Webinar
Basic Uncertainty Concepts 2:00 p.m. - 4:00 p.m.
Class No. 5446

February 27 - March 3 (5 days)
Fundamentos de Metrologia
Class No. 5447
NIST/Gaithersburg, MD

March 2 (2 hr)
Webinar - Internal Auditing Best Practices
2:00 p.m. - 4:00 p.m.
Class No. 5420

March 13 - 24 (10 days)
Mass Metrology Seminar
Class No. 5435
NIST/Gaithersburg, MD

May 15 - 26 (10 days)
Mass Metrology Seminar
Class No. 5436
NIST/Gaithersburg, MD

June 5 - 16 (10 days)
Advanced Mass Seminar (Rev. 2015)
Class No. 5437
NIST/Gaithersburg, MD

June 19 - 30 (10 days)
Mass Metrology Seminar
Class No. 5448
NIST/Gaithersburg, MD

August 17 (2 hr)
Webinar
Contract Review
2:00 - 4:00 p.m.
Class No. 5421

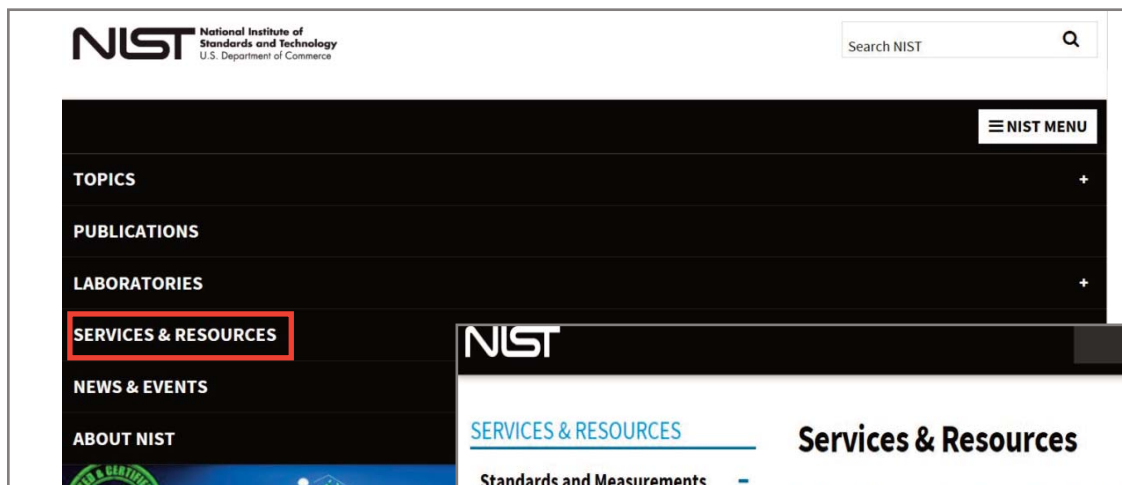
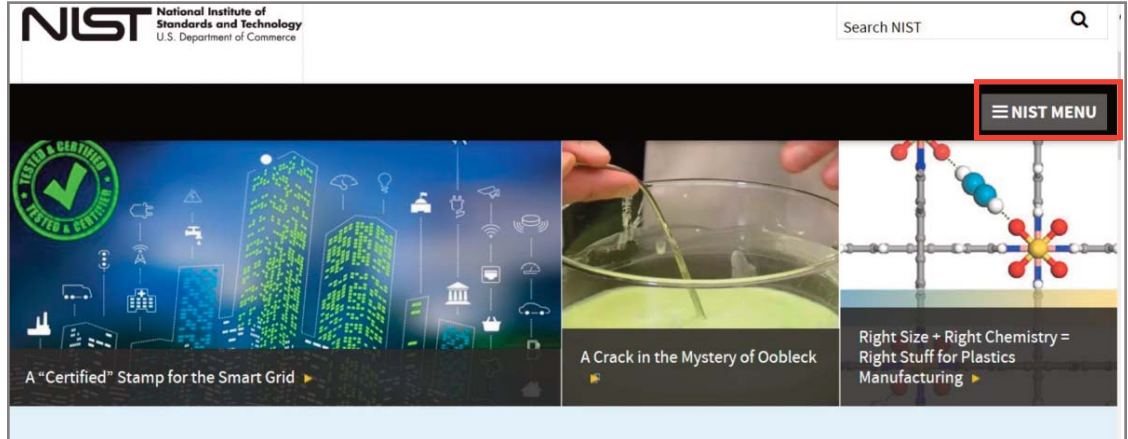
*State W&M labs only or invitation only.
**Regional Measurement Assurance Program "MEMBERS" (State and Industry RMAP member laboratories.)

THE NEW NIST WEBSITE AS VIEWED WITH A SMALLER MONITOR

NIST Homepage View

1. Select "NIST Menu."

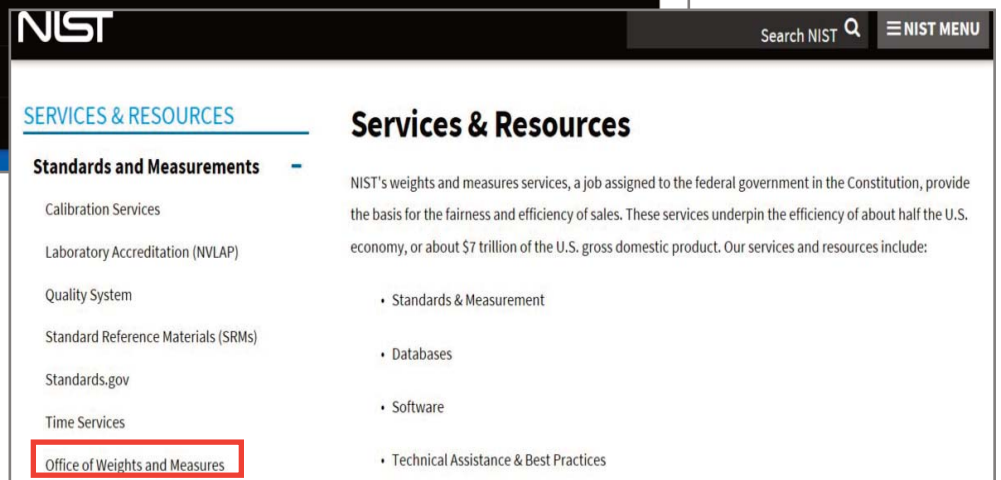
This will expand to a drop-down menu as seen below.



Drop Down View
2. Select "Services and Resources."

Menu Expansion (right)

3. An additional drop-down menu will appear revealing the "Office of Weights and Measures." Clicking on this option will take you to the Office of Weights and Measures (OWM) homepage.



You are now on the "Weights and Measures" homepage. From this point on, the instructions on page 3 beginning with step "4" can be followed. Please keep in mind that all menu selections will now in the left-hand column, and the selections are in drop-down menus.

Thank you for visiting!