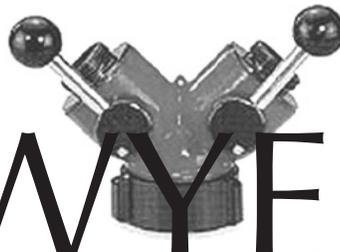


GATED WYE



January 2012 · Oregon Office of State Fire Marshal · 4760 Portland Road NE · Salem Oregon 97305-1760 · No. 336

DPSST takes delivery of new fire training prop

In December, representatives from Kirila Fire Training Facilities delivered a new mobile vehicle fire simulator to officials from the fire training program at the Oregon Department of Public Safety Standards and Training (DPSST).



Preparing the vehicle fire simulator for a test burn.

The vehicle fire simulator resembles a mid-size automobile and can replicate various vehicle burn zones including engine, multiple passenger compartment fires, trunk, rear wheel, and fuel spill fires.

The prop will be used to provide entry level and advanced firefighters with the skills needed to deal with vehicle incidents including gas and liquid fires, and fuel leaks.

The vehicle fire simulator will also serve to improve interagency operability to better respond to and mitigate

hazardous material-caused vehicle fires. It will also enhance agency emergency plans to include response procedures for vehicle fires involving the transportation of hazardous materials.

"With the downturn in the economy and the increased price of metal recycling there are very few vehicles available for training to local fire agencies," said DPSST Director Eriks Gabliks. "This prop will go a long way to filling this need."

A manufacturing company representative provided training



(left to right) DPSST staff members Cody Goodnough, John West, Robert Primm, Mark Ayers discuss the operation of the new training prop with manufacturer's representative Peter Mueller.

to DPSST officials that covered set-up, fire training scenario practices and operations, emergency shut-down procedures, and maintenance.

The simulator was paid for by a grant from the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

"The next step is to work with the Oregon Department of Transportation on the construction of a travel trailer to carry the simulator, propane tanks and all the other equipment and supplies necessary," said DPSST Fire Program Supervisor Mark Ayers. "We should be ready sometime in May to conduct the first firefighter training using the simulator."

For more information, contact Mark Ayers at 503-378-2726 or mark.ayers@state.or.us.



DPSST Fire Training Coordinator John West engages the vehicle fire simulator during the test burn.

From the desk of the State Fire Marshal



“Slowing down lets us evaluate critical success factors, and ensures we expend our best efforts on the parts of the organization that make the most difference.”

– SFM Mark Wallace

Happy New Year!

There is always a sense of renewal and a fresh start when completing one calendar year and beginning another. For me, it completes six months as your State Fire Marshal, and I thank everyone for making me feel welcome. The role of State Fire Marshal is complex and I learn more every day about Oregon, how the various structures are intertwined, and how our state government works.

Although the economy seems to be glimmering at recovery, the light at the end of the tunnel is still too dim. I suspect beyond the tunnel’s visible light, we will find a brighter light. The recent statewide hiring freeze affects the OSFM just as it does other state agencies. However, we should see this as an opportunity, rather than a struggle.

Organizations often strive to push forward at faster and faster rates. Often, organizational change is simply a linear progression of adding to what was done in the past. As Mario Andretti once said, “If you feel like you are in control, you are not going fast enough.” I think we all fall into this trap too often. When we are forced to slow down or alter our path, I am reminded of another saying, “In order to speed up, you often need to first slow down.”

Slowing down lets us evaluate critical success factors, and ensures we expend our best efforts on the parts of the organization that make the most difference. In the new year, I suggest we examine how we do what we do, and how to create higher quality outcomes. We must examine our distinctive competencies and find more effective ways to provide Oregonians with the “best bang for their buck,” as well as “Premier Public Safety Services.”

Fortunately, we have a great group of personnel committed to success and proud of what they do to meet objectives and achieve successful outcomes. Therefore, my most important message is - thank you to everyone in Oregon who works toward our collective success. Please know how proud I am to work beside every member of the Oregon Office of State Fire Marshal. Again, Happy New Year!



State Fire Marshal Mark Wallace

Office of State Fire Marshal

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The Gated Wye is published monthly by the Oregon Office of State Fire Marshal. For submissions or suggestions contact Rich Hoover at 503-934-8217 or email richard.hoover@state.or.us. In compliance with the Americans with Disabilities Act, alternative formats of this publication are available.

New materials available to address cigarette-caused fires

During 2011, the OSFM prevention and education staff worked with representatives from the Oregon Smokefree Housing Project, fire prevention officials, and public health experts to develop messages and materials to address the dangers of cigarette-caused fires. The materials have several components:

- A flyer designed for landlords
- A flyer designed for residents of multi-unit housing
- A set of media messages to use after a cigarette-caused fire (or anytime)
- A logo image to represent the Smokefree/FireSafe collaboration

[You can view these resources on the Smokefree Housing website.](#)

In Oregon, cigarettes start one in 10 fires but cause half of all fire deaths. Between 2005 and 2009 in Oregon, there were nearly 6,400 cigarette-caused fires resulting in 34 deaths, 133 injuries, and an estimated \$20 million in property loss. [The full OSFM report is available here.](#)

The landlord and resident flyers have space to add local fire department logos. To get a customized version, send a black and white copy of your department's logo to diane.laughter@comcast.net by January 31, 2012. A customized, print quality pdf file will then be sent to you in February. Generic versions may be downloaded from the website.

The OSFM encourages departments to work with their local tobacco prevention coordinators to get the message to landlords and residents of multi-unit residential properties. [Click here for contact information of your nearest tobacco prevention coordinator.](#)



A flyer designed for residents of multi-unit housing warning of the dangers of cigarette-caused fires.

Juvenile Intervention Specialist 1 training in southern Oregon

The Office of State Fire Marshal, in partnership with the Winston/Dillard Fire Department, is conducting a two-day training, January 21- 22 for the National Fire Protection Association's 1035 Juvenile Firesetter Intervention Specialist 1.

The course provides an overview of Oregon's Juvenile with Fire Intervention Program and includes policies, procedures and law, child development, and communication techniques. It also provides an opportunity to practice Oregon's Juvenile with Fire Screening Tool.

The class prepares applicants for completing a task book, as required by the Department of Public Safety Standards and Training, for NFPA 1035 certification as a Juvenile Firesetter Intervention Specialist 1 in Oregon.

When: January 21–22, 2012

Time: 8:30 a.m. – 4:30 p.m. each day

Where: Winston–Dillard Fire Dept.

250 SE Main Street

Winston, OR 97496

Registration is required. [The registration form and course information are available online.](#)

For more information, email krista.fischer@state.or.us or call 503-934-8240, or judy.okulitch@state.or.us or call 503-934-8230.

Annual fire defense board meeting

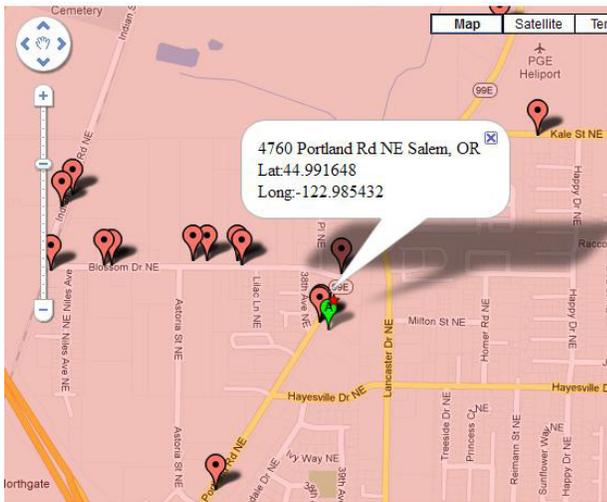
Save the date! The Annual Fire Defense Board Meeting will be held Tuesday, April 17, 2012 at the Office of State Fire Marshal in Salem. There will not be a meeting during the Oregon Fire Chiefs Association's conference this year.

For those interested, the OSFM will conduct a basic Mobilization Plan and Fire Defense Board Training prior to the annual meeting. An agenda will be emailed in March.

Identify and locate hazardous material facilities with E-Plan

The OSFM Community Right to Know Unit encourages fire departments to take advantage of a new online tool for viewing chemical information reported by facilities in their jurisdiction to the OSFM. The tool, called E-Plan, was created and is maintained by the University of Texas-Dallas with the support of the Environmental Protection Agency and the Department of Homeland Security.

E-Plan is an intuitive, internet-based program allowing users easy access and viewing of hazardous material facilities in their jurisdiction using Google Maps. The user can search for a specific facility by name or address and view a satellite image or street map of the facility. In addition, any address can be plotted on a map, then overlaid with reporting hazardous material facilities within specified distances.



From the map, a full suite of information about a specific facility can easily be viewed by clicking a link. Information includes facility emergency contact information, a list of chemicals reported on-site, hazards associated with the chemicals, links to the appropriate Emergency Response Guidebook page, NFPA ratings, and more.

[Access E-Plan here and register as a new user.](#) The CR2K Unit is available to assist fire departments by providing a demonstration or brief training on using E-Plan. For questions or assistance, contact Chris Kuenzi at (503) 934-8214, or chris.kuenzi@state.or.us.

Mob plan review committee update

The 2012 Mobilization Plan Committee has been busy reviewing and updating the 2012 mob plan. Changes include deleting unneeded language and creating a more user-friendly layout. In addition, there are policy changes related to mutual aid, reimbursements, and training requirements.

Policy changes are needed to ensure the OSFM administers the mobilization plan in the most fiscally responsible manner, creates training opportunities for the Oregon Fire Service, and that the plan and its policies directly relate to the original intent of the conflagration act.

You may [view the current list of proposed changes online.](#) For questions or more information, contact Mariana Ruiz-Temple at 503-934-8238 or mariana.ruiz-temple@state.or.us.

January 27 is Fire Service Appreciation Day

House Joint Resolution 25, passed by the Oregon Legislature in 2007, officially designated January 27 as Fire Service Appreciation Day in Oregon.

As part of the resolution, the Legislative Assembly encourages all citizens of Oregon to recognize and honor our fire service members for their efforts to keep our citizens safe from the ravages of fire.

If your community holds an event honoring members of the fire service, State

Fire Marshal Mark Wallace encourages you to send in photos and a description of the event for the OSFM to recognize in a future issue of the Gated Wye newsletter.

Contact Rich Hoover at richard.hoover@state.or.us, or call 503-934-8217.



DATA Connection

News from the Data Collection & Research Unit

The season of home heating fires

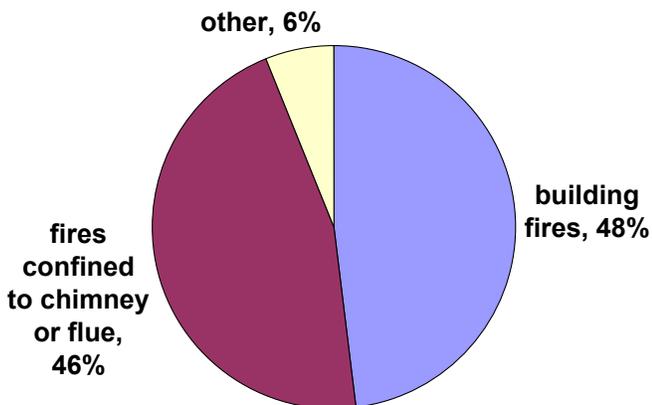
As temperatures drop this winter and Oregonians start using their fireplaces, woodstoves, space heaters, and other appliances to stay warm, fire agencies will find themselves responding to more home heating-related fire incidents.

From 2006 through 2010 in Oregon, there were 2,169 home heating-related fires resulting in nine deaths, 77 injuries, and more than \$37 million in property loss.

During this period, 76% of home heating fires occurred in the fall and winter months (October-March). Oregon fire agencies have already responded to several home heating-related fires this fall.

By understanding the prevalence and causes of home heating-related fires in their local jurisdictions, fire agencies can lead public education campaigns to help prevent those types of fires.

Forty-six percent of all home heating fires are fires confined to a chimney or flue (see graphic below). These confined fires rarely result in serious injury or large structure or content losses. However, chimney fires sometime spread to become building fires.



Types of heating-related fires in Oregon
2006 - 2010

Forty-eight percent of home heating fires are building fires. Building fires are responsible for all the deaths and the majority of the injuries and property loss in home heating fires. The top cause of these building fires is:

- Forty-four percent are caused by a failure of equipment or heat source. This is typically electrical failure or part failure due to age or lack of maintenance.

Reminding homeowners to have chimney and woodstove flues inspected and cleaned each year by a qualified chimney sweep can help prevent fires.

In addition, educating homeowners about safe practices such as using a fireplace screen, keeping combustibles away from heaters, and properly disposing of ashes, can also translate to fewer home heating fires.

January 31 deadline for data

We need your data for the Oregon Office of State Fire Marshal's 2011 Annual Report. For your agency's incident data to be included in the analysis for this report:

- Make sure you have reported all your fire incidents for the year 2011 in your account in Oregon Fire & EMS Bridge™ by January 31, 2012.
- If you use other reporting software, you must import your reports into Oregon Fire & EMS Bridge™ (or email us your .txt files to import for you) by January 31, 2012.

Remember, all incident reports must be 100% valid with no errors for them to be accepted by the National Fire Incident Reporting System database.

New data hotline number

The Data Collection & Research Unit now has a new data hotline number, 503-934-8250, 877-588-8787, toll free. You can also email OSFM.Data@state.or.us.

BCD issues reminder on temporary structures

Reprinted from the *Local Building Department Newsletter* with permission from Oregon Building Codes Division.

With the various reports of stage failures in recent years, there is reason to pause and revisit the regulatory framework in Oregon for similar structures.

With the exception of temporary membrane structures, the 2010 Oregon Structural Speciality Code (OSSC) is the adopted standard in this regard. Such temporary uses are subject to the permit and inspection requirements of the OSSC with the permit duration for such structures limited to 180 days. Conversely, membrane structures erected for a period of less than 180 days are regulated under the Oregon Fire Code.

The permit and inspection process occurs at the local level under the authority of the respective building official or fire official. The performance expectation of the OSSC is that temporary structures demonstrate full compliance with the code "to ensure public health, safety, and general welfare."

Given the transitory nature of many temporary stages and membrane structures, it may be difficult for their designs to conform with the established design loads as adopted for permanent structures. In such cases, the authority having jurisdiction (AHJ) should verify the "engineered design" of the proposed structure and establish "atmospheric" thresholds (maximum allowed wind, snow, etc.) for determining safe occupancy. This also affords the AHJ the opportunity to monitor local weather alerts and forecasts coinciding with the planned event and serve as the final authority in determining if the activity must be canceled. Where atmospheric limitations are placed on the use of structures, it is highly recommended that written, event-specific evacuation plans for safe dispersion be required as part of the approval process.

[You can view the full article on temporary structures with excerpts from the Oregon Structural Speciality Code online.](#)

Fire grant update

by Hines Lieutenant/Grant Writer Jonathan Manski

The 2011 Assistance to Firefighters Grant program has stayed on course; awards have been flowing since mid-December.

Oregon started out of the chute with two nice pre-holiday awards in the first round, one each for Gresham Fire & Emergency Services and the Woodburn Fire District. Round two dropped four awards including Dallas Fire Department and Dallas Emergency Medical Services, with vehicle awards going to Hamlet Volunteer Fire Department and Klamath County Fire District #1. What nice gifts for them.

Because of the changes in the program for 2011, it is important to remember that awards are not official until a department formally accepts them. This year, grantees must log onto the grant website and select that they accept the award. Gone also are the 10-question emails that were standard in the past.

It is imperative to review your grant package carefully for any changes from your original submission. If you feel like challenging any fund reductions, you need to do it before you accept the award. A challenge will not affect the award, but if you don't ask, well you'll never know.

Sometime soon, those not in the running for a grant award will receive the dreaded "denial letter." Use it as a learning tool to get back in the process and revise your application well before the 2012 grant programs begin.

The Federal Emergency Management Agency (FEMA) has also been prepping us for the Staffing for Adequate Fire & Emergency Response grant program which will be up next. This program focuses on hiring/rehiring of firefighters and recruitment and retention of volunteer firefighters. In the 2010 program, Oregon was awarded a record \$6.1 million in funding to 12 departments. I'd say, it was worth looking into.

For the latest grant information, [visit the FEMA grant website.](http://www.fema.gov/firegrants) www.fema.gov/firegrants



Trichlorosilane Cl_3HSi

Description:

- Synonyms: Silicochloroform; trichloromonosilane; silane, trichloro
- Clear colorless fuming liquid with a pungent, choking odor of hydrochloric acid
- CAS No.: 10025-78-2
- EPA Section 302 EHS: Not listed
- EPA Section 112R : 10,000 lbs/1,012 gallons
- EPA Section 304 EHS: Not listed
- OSHA PSM: 5000 lbs/446 gallons

NFPA 704 Information:

- Health: 3
- Flammability: 4
- Reactivity: 2
- Special: water reactive

Uses and Occurrences:

- Synthesized, not naturally occurring
- Silicon source in the semiconductor industry

Reactivity and Fire Risk:

- Flash point: -15°F (MSDSs)
- LEL: 1.2%; UEL: 90.5%
- Autoignition temperature: 220°F
- Vapor density (air = 1): 4.7
- Specific gravity (water = 1): 1.34
- Boiling point: 90°F
- Ignites spontaneously in air (pyrophoric)
- Reacts violently with water, steam or moisture in air to release heat plus hydrogen and hydrogen chloride gases
- May have the same reaction with alcohols, acetone and light metals
- Under some conditions may react with acids or alkalies to release hydrogen gas
- May react explosively with some oxidizers

Health Hazards:

- OSHA PEL TWA: None listed for trichlorosilane, 5 ppm for hydrogen chloride; IDLH: None listed for trichlorosilane, 50 ppm (hydrogen chloride)
- Corrosive to all tissues

Fire Fighting Measures:

- Extinguishing fire without stopping flow can result in explosive reignition

- Extinguishing media: "Alcohol" foam, Dry chemical, carbon dioxide (CAMEO)
- Can use water spray to knock down vapors
- Vapors may settle in low areas
- Vapors may ignite at distant ignition source and flash back
- No part of a cylinder should be subjected to a temperature greater than 125°F

2008 Emergency Response Guidebook:

- Shipping name: Trichlorosilane
- Hazard Classes: Dangerous when wet 4.3; Flammable liquid 3; Corrosive 8
- UN/NA: 1295; Guide # 139
- Spill: Initially isolate 150 feet in all directions
- Table 1: Large spill in water first isolate 200 ft in all directions.

2010 Oregon Fire Code: Table 2703.1.1(1)

- Flammable liquid Class IA
- Maximum Allowable Quantities (MAQ) per control area:
 - Unprotected by sprinklers or approved storage cabinets: 30 gallons
 - In sprinklered building, not within approved storage cabinets: 60 gallons
 - In unsprinklered building, within approved storage cabinets: 60 gallons
 - In sprinklered building, within approved storage cabinets: 120 gallons
 - Group when MAQ exceeded: H2 or H3

Incident Reporting and Information:

- Facilities reporting trichlorosilane on the Hazardous Substance Information Survey: 6
- Hazardous materials incidents reported in Oregon since 1986: None

References include:

- <http://cameochemicals.noaa.gov/chemical/1638>
- Praxair Inc, MSDS Trichlorosilane
- BOC Gases, MSDS Trichlorosilane
- Acros Organics N.V., MSDS Trichlorosilane
- EPA List of Lists, July 2011

For questions or suggestions contact Alec Carte at 503-934-8262 or email aleta.carte@state.or.us

Upcoming training opportunities from the OSFM

Company Inspection I-IV training January 2012

The OSFM, in partnership with Portland Fire & Rescue, is hosting a Fire Department Company Inspection I-IV class January 10, 2012 from 8:00 a.m. - 5:00 p.m. Any fire department member is welcome to attend.

Module 1: Company inspector's scope of authority.

Module 2: Training includes the general provisions of fire service access and means of egress.

Module 3: General provisions of fire protection, fire protection systems, and electrical hazards.

Module 4: Training comprises housekeeping and hazardous materials as found in the Oregon Fire Code.

This class satisfies requirements for Company Inspector for fire officials performing fire code enforcement at this scope of practice specified in [OAR 837, Division 39, section 0120 \(1A\)](#)

Fire and Life Safety Awareness I & II training February 2012

The OSFM, in partnership with the Sublimity Fire Department, is hosting Fire and Life Safety Awareness I and II training February 4, 2012, from 8:00 a.m. - 5:00 p.m. Any fire department member is welcome to attend. Class size is limited to 35.

FLSA Module I: Scope of Authority and Assembly Occupancies. Provides a review of the ORS, OAR, and Oregon Attorney General Opinions related to the powers and duties of the State Fire Marshal (SFM) and assistants to the SFM, inspection procedures, due process, and investigation of fires.

FLSA Module II: Fire Department Access and Water Supply. Covers general provisions of fire department access as established in the Oregon Fire Code, including permits, fire department access roads, access into buildings, and fire hydrant systems.

This class satisfies requirements for Assistants to the State Fire Marshal specified in [OAR 837, Division 39, section 0110 \(3\) and \(4\)](#).

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Basic Fire Investigation 200 training February 2012

The OSFM, in partnership with the Rural/Metro Fire Department is hosting a Basic Fire Investigation 200 class February 11-12, 2012 from 8:00 a.m. -5:00 p.m. Any fire department member is welcome to attend. Class size is limited to 30.

Prerequisite: Basic Fire Investigator 100 - This course is also available online on iLearn.

Basic Fire Investigation 200 provides basic fire investigation training for firefighters and fire officers, often combined with a live fire burn and practical fire investigation techniques. This is a DPSST certified course for fire prevention portions of the NFPA Fire Investigation Task Book and covers some FFI, FFII, and Fire Officer knowledge and skills JPR's in the DPSST task books.

Module 1: Why investigate fires

Module 2: Role of Firefighters and Police

Module 3: Legal Aspects and Juvenile Firesetters

Module 4: Fire Patterns

Module 5: Documentation

Module 6: Determining Cause

Module 7: Fatalities

Students must provide their own turnout gear.

Cost: \$50 to cover course materials. Lunch is not provided. Mail payment by January 30, 2012 to: Rural/Metro Fire 807 NE 6th St., Grants Pass, OR 97526, Attention: Mike Shaw.

[Register for any class through iLearnOregon.](#)

Once logged in scroll down the Course Catalog to find the title, click GO to the right of View Sections, click GO to the right of Enroll, click Enroll.

If you do not have an iLearnOregon account, you will need to create one before enrolling.

If you need assistance registering, contact Anita Horsley at 503-934-8249 or anita.horsley@state.or.us.