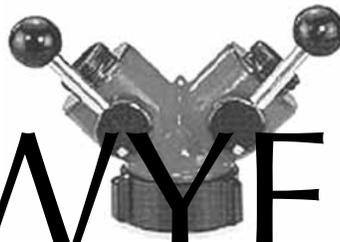


GATED WYE



June 2013 · Oregon Office of State Fire Marshal · 4760 Portland Road NE · Salem Oregon 97305-1760 · No. 353

CFSI presents Paul S. Sarbanes award to TVF&R, OSFM, and the Oregon Governor's Fire Service Policy Council

On May 9th, the Congressional Fire Services Institute (CFSI) hosted the 25th Annual National Fire and Emergency Services Dinner in Washington, D.C. During the event, the Senator Paul S. Sarbanes Fire Service Safety Leadership Award was jointly presented to Tualatin Valley Fire and Rescue, the Oregon Office of State Fire Marshal, and the Oregon Governor's Fire Service Policy Council for their study on chemicals found in the overhaul phase of structure fires.

The eight month project used advanced portable detection technology to identify and quantify the airborne hazards present after a fire was extinguished. Findings from the study resulted in a best practices guide for first responders to help mitigate effects of exposure to smoke and other toxins.

TVF&R Fire Chief Mike Duyck and State Fire Marshal Mark Wallace accepted the award on behalf of the agencies involved.

CFSI President Bill Jenaway and National Fallen Firefighters Foundation Chairman Dennis Compton issued a joint statement recognizing the three or-

ganizations for their work: "This project embraces six of the 16 life safety initiatives developed by the major fire organizations in 2004 and used as the major criteria for this award. We ap-

plaud these three organizations for their shared commitment to this project. Research is the cornerstone of progress and through this study, the fire service can achieve greater progress in protecting firefighters against exposure to toxic chemicals that would otherwise threaten their health and safety."

Links to the [Overhaul Phase Chemicals in the Air final report](#) and [Respiratory Safety Best Practices](#) are available on the OSFM homepage.

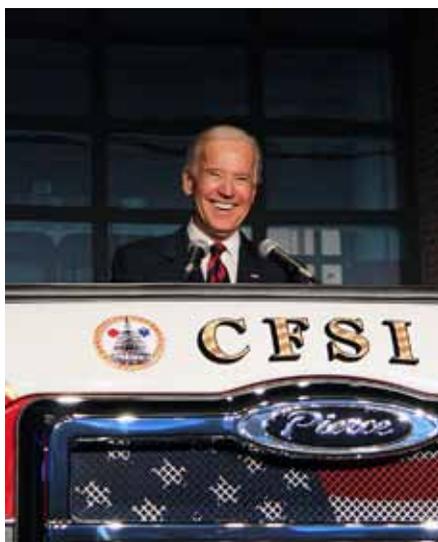


Photo at left: Vice President Joe Biden, the featured guest speaker at CFSI Award Dinner; below photo (left to right): State Fire Marshal Mark Wallace and TVF&R Chief Mike Duyck, listen to CFSI President William Jenaway introduce the Senator Paul S. Sarbanes Fire Safety Leadership Award.



From the desk of the State Fire Marshal



The collaboration and commitment to the project was amazing and involved many people.

- SFM Mark Wallace

CFSI award the result of effective collaboration

The National Fire and Emergency Service Dinner was held on May 9th in Washington D.C., as part of the Congressional Fire Services Institute's annual conference. TVF&R Fire Chief Mike Duyck and I represented TVF&R, the Governor's Fire Service Policy Council (GFSPC), and the OSFM in accepting the 2013 Senator Paul S. Sarbanes Fire Service Safety Leadership Award.

The award, sponsored by the Congressional Fire Service Institute, the National Fallen Fire Fighters Foundation, VFIS (Volunteer Fireman's Insurance Services), and State Farm Insurance Companies, recognizes organizations for their outstanding contributions to firefighter health and safety.

In our case, it was for "A Study on Chemicals found in the Overhaul Phase of Structure Fires using Advanced Portable Air Monitoring available for Chemical Speciation" or, as we call it, "The Overhaul Study." It was produced by Regional Hazardous Materials Team HM09, Tualatin Valley Fire and Rescue, and the Office of State Fire Marshal.

It was a distinct honor for us to accept the award on behalf of such a large number of collaborators and partners.

I'd like to highlight the people who made this award possible. There were many people involved and critical to the success of the study. The following is based on the best information I have about the project. If I miss someone, please accept my apologies in advance.

The project was conceived in 2007 and chartered by the OFSM and the GFSPC in 2008. OSFM Manager Mariana Ruiz-Temple, now an Assistant Chief Deputy State Fire Marshal, was tasked with facilitating the project and guiding it through from its original idea, to a final outcome and report.

Former TVF&R Chief Jeff Johnson first committed his department to the project. When Chief Duyck took over for Johnson, he and his staff ensured the project was completed effectively.

see **SFM Wallace** page 3



**State Fire Marshal
Mark Wallace**

**Office of
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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.

The first challenge was to determine what data could be collected. After working to develop a monitoring protocol and identifying the equipment needed to collect the data, TVF&R personnel went to work. TVF&R/Oregon HazMat Team 09 personnel collected the data from virtually every structure fire in their jurisdiction over an eight month period.

Although the full list of personnel is much longer, three people took the lead throughout the project: Brian Sherrard, Deric Weiss and Jeff Miller. TVF&R personnel did whatever was necessary to ensure the data was effectively collected during the eight months of firefighting designed into the study.

Working with Oregon Health & Science University, Oregon OSHA, Oregon Health Authority, and other state agencies, a technical committee comprised of physicians, scientists, and toxicologists ensured that the study met scientific research standards. Three main people provided essential support to the data collection process and analysis of results. They included Kermit McCarthy C.I.H., Michael Holcomb, Ph.D., and Mohamud Daya, M.D. M.S.

The Oregon Fire Chiefs Association's Health and Safety Committee, led by Dave Phillips of Clackamas Fire District #1, used the research results to develop practical operational guidelines and best practices for respiratory and dermal protection during the extinguishment, overhaul, and investigation of a structural or other fire.

The collaboration and commitment to the project was amazing and involved many people. Everyone involved was an integral part of the successful outcome.

At the awards dinner, we challenged fire services everywhere to use this research and implement the recommended best practices to improve firefighter safety.

[A copy of the report and the OFCA best practices document are available on the OSFM website.](#)

Congratulations to everyone involved in this award-winning project.

OSFM seeks to award multi-hazard house trailer

The OSFM is requesting applications from Oregon fire service agencies and fire prevention cooperatives interested in taking possession of the OSFM's multi-hazard house trailer (MHHT), aka "The Chief." Since 2007, the MHHT has been used to educate children across the state.

The MHHT is an educational prop used to demonstrate fire prevention and safety skills to all members of a community. The house is a hands-on learning tool that gives children and their families the skills and knowledge they need to create safer homes and communities.



The MHHT gives children an opportunity to practice and demonstrate survival skills in case of a home fire, calling 9-1-1, and how to practice cooking and kitchen fire safety.



Children can demonstrate correct response to the sound of a smoke alarm, correct exiting procedures in case of fire, and demonstrate how to report a fire or other emergency. The MHHT may also be used to demonstrate the effectiveness of a home fire sprinkler system.

[Detailed specifications are included in the application available on the OSFM website.](#)

To request a paper copy of the application or for more information, contact Joe Saltarello at 503-934-8366 or joe.saltarello@state.or.us.

Operations center moved to OSFM headquarters

OSFM employees and contractors have completed relocation of the OSFM Agency Operations Center (AOC) from the Office of Emergency Management to the OSFM headquarters building on Portland Road in Salem.

After more than two years of study, evaluation, and planning the move was accomplished in time for the 2013 fire season.

Reasons for the relocation focused around management and operations, situation status management, and resource status management. Because of the complexity of emergency response operations, it was necessary to have a central location from which to manage these activities.

With the move, the OSFM upgraded the technology to include:

- Two 40" Smart TVs. This will allow monitoring and tracking of local news and weather, along with fire information on a state and national level through the web.
- A 32" TV will be used for web conferencing, allowing for communications



At left, OSFM's Tina Toney, project coordinator for the AOC move, talks with staff members about some of the new technology installed in the AOC.

with OSFM deputies and incident commanders in the field. The TV also serves as a dual monitor for a computer workstation and is excellent for webinar training.

- Two dedicated conference call lines and phones for daily incident briefing calls.
- Remote file sharing, which allows staff to send and receive maps and other large files that might otherwise get blocked because of file size.
- Wi-Fi capabilities. If additional staff are needed in the operations center, they will be able to use their laptops as workstations.
- Three satellite phones.

"This is a good move for us and will allow our staff to open up the AOC and get it operational much faster than before," said State Fire Marshal Mark Wallace. "This gives us much more flexibility with staffing and shift rotations. Add that to the new technology capabilities we now have and it makes our ability to support any emergency incident a lot more robust."

Oregon legislature passes two OSFM bills

The Oregon legislature has passed two bills submitted by the Office of State Fire Marshal this session, HB 2084 and SB 29.

HB 2084 will enable the state's fire programs to maintain the current service level to first responders and the citizens of Oregon. The state's fire programs provide critical services such as: Governor declared emergency preparedness and response; fire prevention and education for vulnerable populations; inspection and investigation coverage in local communities without a local fire marshal; fire certification and training for local fire jurisdictions; and arson investigation and prosecution. The bill

passed both houses of the legislature and has been signed by the governor.

SB 29 was mostly a housekeeping measure to revise and update definitions of fireworks laws. This allows Oregon definitions to align with the standardized definitions of the American Pyrotechnics Association standards. This will reduce the burden on fireworks manufacturers and wholesalers when comparing products available nationally with product definitions in Oregon statutes. The bill passed both houses of the legislature and has been signed by the governor.

DATA Connection

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*News from the Data Collection & Research Unit
by Program Coordinator Dave Gullledge*

Reporting No Runs

An entire month without a call is not out of the ordinary for some Oregon fire agencies. In 2012, 20 agencies reported they had no calls for a particular month. Whether an agency handles thousands of calls a month or none, it is important for the local agency to report to the Office of State Fire Marshal.

It's just as important for us to know that an agency did not respond to any calls for a month as it is for us to receive incident reports for thousands of calls. It assures us that we are not missing any information.

When all of Oregon's fire agencies report their incident data, or indicate they had no calls, it provides us with an opportunity to analyze the complete fire picture, which in turn allows us to create programs and target problem areas. In 2012, 19% of Oregon's fire agencies did not report at all; reporting no calls can help bring that number down.

When initially arriving on the scene of an incident, it is important for the fire ground officer to walk completely around the scene, or "size it up," to see and understand fully what they are dealing with. The same principle applies at the state and federal level. Although we may not be the first responders, we need to fully understand what we are dealing with in order to know how to address the fire problem.

Getting complete data from every agency is the only way for us to size up the fire problem. When we look at summary data and see a zero in the total runs column for an agency, unless we are told otherwise, we can only assume we are missing valuable information.

There are two ways Oregon fire agencies can report they had no runs for an entire month:

If you use the state's online reporting system, Fire Bridge™, the Modules tab has a feature called 'No Runs to Report.' By clicking on this you are taken to the module where you can select 'No Fire Runs.' This module will show month/years when you did not respond to any calls. If you have not used this

feature before, simply click on the 'Add No Runs' button and select the month and year in which you did not respond to any calls and click 'OK.' With just those few clicks, we will know you had no runs that month, and you have met the reporting requirement for the whole month.

Agencies that do not use Fire Bridge™ can contact us in person, by phone, or email and let us know they had no calls for a particular month. Once we have been notified, we can enter this into the system and their reporting for that month is covered.

National Fire Academy NFIRS Class

The OSFM partnered with the Department of Public Safety Standards and Training to sponsor a two-day National Fire Academy class on the National Fire Incident Reporting System (NFIRS). The class was held April 24 and 25 at the Public Safety Training Center in Salem.



Thirty-two students representing 18 different fire agencies from across Oregon attended the class. Instructing the class was National Fire Academy Instructor Andy Fritz, a former NFIRS State Program Manager from New Jersey.

If you missed this class, no need to panic, the OSFM provides monthly NFIRS classes on the last Tuesday of each month at the OSFM headquarters in Salem from 1:00 p.m. to 3:00 p.m. You can attend in person or by webinar.

To register, or for more information, contact the Data Collection & Research Unit at: 503-934-8250 or 877-588-8787 (toll free) or email at osfm.data@state.or.us.



Upcoming IMT position specific training

Rogue Interagency Training Association (RITA) is hosting an All-Hazards Logistics Section Chief training June 24 – 27, 2013, at Jackson County Fire District #3 in White City, Oregon.

Training is free, funded by a Department of Public Safety Standards and Training grant.

Intended audiences are local and state level emergency responders who may be designated as logistics section chiefs on their respective incident management teams. The materials were developed with the assumption that audience members may have little or no actual experience as a member of an all hazards incident management team.

Prerequisites include I-100, I-200, I-300, and IS700. Completion of one of the following three is also desired: All-Hazardous Incident Management Team, Command and General Staff Functions for Local Incident Management Team, or ICS 420.

For more information or to register, visit the RITA website, or contact Dave Blakely at 541-831-2756 or daveb@jcfcd3.com.

Free ethanol safety seminar offered in Salem

The Renewable Fuels Association and Portland & Western Railroad are hosting free Ethanol Safety Seminars June 18 & 19, 2013, at Chemeketa Community College in Salem.

Attendees will receive in-depth information on proper training techniques needed by first responders and hazmat personnel to effectively handle an ethanol-related emergency.

Sessions are 9:00 a.m. to 2:00 p.m. each day. Lunch is provided. Certificates of completion will be handed out to all attendees at the end of each seminar.

[Registration is available online.](#) When visiting the registration site, click on “Register” (under Password); once you register for a free site account, you can register for a safety seminar.

For questions, call 402-391-1930 or email safety@EthanolRFA.org.

Fire grant update

by Hines Lieutenant/Grant Writer Jonathan Manski

Funding for the 2012 Assistance to Firefighters Grant continues to dwindle, and it would be safe to say if you haven't received a 1199a notice yet, you better plan on submitting again in the 2013 program. I'm fairly certain Peer review turn-down notices will be out shortly. Remember, while the guidance said up to 25% of the available funding could be awarded for vehicles, it looks like that won't be happening this year. Overall, Oregon departments have had a nearly 16% success rate considering all AFG applications, but no departments have had success in the vehicle category.

So far, three 2012 Fire Prevention & Safety grants have been awarded to Oregon, two to fire departments and one to a community organization. No “turn-down” notices have been sent, so let's keep the faith happening in this program.

There are still no firm dates set for the opening of the 2013 fire grants, but it seems the plan is to open Staffing for Adequate Fire & Emergency Response Grants first, and sooner rather than later, followed by AFG in mid-summer. Now is the time to review what priority needs you have and start the preparation; remember, funding continues to decrease and includes the 2013 sequester impact.

[Visit the FEMA fire grants webpage](#) for more information.

Albany community assistance fund-raiser

The Albany Fire Fighters Community Assistance Fund (AFFCAF) is hosting its 13th annual golf tournament to raise money to assist residential fire victims and “worthy cause” activities of the International Association of Fire Fighters Local 845.

Tournament starts at 9:00 a.m. July 19, 2013, at the Spring Hill Country Club in Albany, Oregon.

Teams and sponsorship positions are available; registration deadline is July 1, 2013. Contact tournament coordinator chris.labelle@cityofalbany.net to register or for more information.



Xylenes $C_6H_4(CH_3)_2$

Description:

- Xylenes are made up of 1,2-dimethylbenzene (ortho), 1,3- dimethylbenzene (meta) and 1,4-dimethylbenzene (para) isomers
- Synonym: Xylols
- Clear colorless liquid with an aromatic odor
- CAS No.: 1330-20-7
- EPA Section 302 EHS: Not listed
- EPA Section 112_R: Not listed
- EPA Section 304 EHS: Not listed

NFPA 704 Information:

- Health: 2
- Flammability: 3
- Reactivity: 0
- Special: None

Uses and Occurrences:

- Precursor to other chemical compounds
- Laboratory solvent
- Used in inks, paint thinners, and varnishes

Reactivity and Fire Risk:

- Stable
- Flammable
- Flash point: 77-81° F
- LEL: 1%; UEL: 7%
- Autoignition temperature: 867-980° F
- Vapor density (air = 1): 3.66
- Specific gravity (water = 1): 0.86
- Boiling point: 279-291° F
- Reacts exothermically with nitric acid, sulfuric acid, and strong oxidizing agents
- Incompatibles include strong oxidizing agents, acetic acid, and strong acids

Health Hazards:

- OSHA PEL: 100 ppm (TWA)
- IDLH: 900 ppm
- Severe eye and skin irritant
- May cause central nervous system depression
- In very high concentrations may cause collapse, unconsciousness, coma, and death

Fire Fighting Measures:

- May accumulate static electricity
- Lighter than water
- Insoluble in water

- Extinguishing media: Appropriate foam, dry chemical, carbon dioxide, water fog
- Use of water spray may be inefficient in fire fighting
- Use water spray to cool containers

2008 Emergency Response Guidebook:

- Shipping name: Xylenes
- Hazard Classes: Flammable Liquids (3)
- UN/NA: 1307; Guide #130 Flammable Liquids (Non-Polar/Water Immiscible/Noxious)
- Spill: Initially isolate 150 feet in all directions
- Large spill: Consider evacuating 1,000 feet

Oregon Fire Code: Table 2703.1.1(1)

- Flammable liquid Class IC
- Maximum Allowable Quantities (MAQ) per control area:
 - Unprotected by sprinklers or approved storage cabinets: 120 gallons
 - In sprinklered building, not within approved storage cabinets: 240 gallons
 - In unsprinklered building, within approved storage cabinets: 240 gallons
 - In sprinklered building, within approved storage cabinets: 480 gallons
 - Group when MAQ exceeded: H-2 or H-3

Incident Reporting and Information:

- Facilities reporting acetone on the Hazardous Substance Information Survey: 95
- Hazardous materials incidents reported in Oregon since 1986: six

References include:

1. [Cameo chemicals – Xylene \(Mixed Isomers\)](#)
2. [Fisher Scientific – MSDS Xylenes](#)
3. [CDC Niosh Pocket Guide – M-Xylene](#)
4. [Sigma-Aldrich – MSDS Xylenes](#)
5. [EPA List of Lists, October 2012](#)
6. [Hovensa – MSDS Xylene, Mixed](#)

Correction to May 2013, Dichlorosilane-Table 2703.1.1(2) In sprinklered building, within approved storage cabinets: **600 pounds**.

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

Important fireworks information for Oregon departments

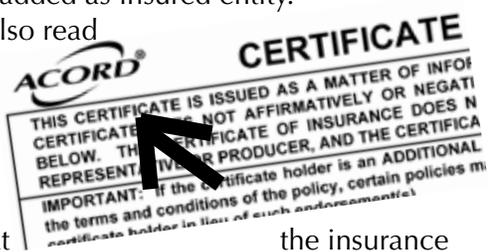
With fireworks season fast approaching, the OSFM wants fire officials to be aware of Oregon Revised Statute 480.150. This statute allows local governing bodies (fire and police) to require a minimum of \$500 in liability insurance to cover fireworks displays or sales of fireworks. That isn't much, but when the law was written many years ago, that was likely determined to be an acceptable amount. Your jurisdiction may mandate a higher minimum amount.

For fireworks wholesalers the "industry standard" is \$1 million in liability coverage, with the local fire department and display site listed as an "Additional Insured" on the insurance certificate. This is the amount of insurance most Oregon permitted fireworks wholesalers obtain for their retail sales and public display permit holders. Also, when working with more than one wholesaler, be sure you get an insurance certificate from each entity.

If your local governing body requires insurance for retail sales outlets or fireworks displays be sure to keep a copy of the insurance certificate in your file. The OSFM does not require proof of insurance for retail sales or display permits.

Although not required, many liability insurance certificates are written on a standardized form with the name "Acord™" printed in the upper left corner. You will need to read the certificate to make sure you are added as insured entity.

You should also read through the form for any coverage exceptions. Some forms may state that



the insurance will not cover accidents caused by someone's failure to follow NFPA standards. Since failure to follow NFPA standards may likely be the cause of an incident, if you see this wording on a certificate, you may want to have it revised to remove that exception; as the exception language could be a basis for the insurance company to deny any claim(s).

The ORS 480.150 language specifically states:

480.150 Permits for fireworks sales or displays; rules; security. (1) The State Fire Marshal may adopt reasonable rules for granting permits for supervised public displays or sales of fireworks or items described in ORS 480.127 (4) by municipalities, fair associations, amusement parks, and other persons, organizations or groups of individuals. The governing body of any municipality, or of any county, may require liability insurance, or an irrevocable letter of credit issued by an insured institution as defined in ORS 706.008 or other form of indemnity deemed adequate by the municipality, or the county, from any person, in a sum not less than \$500, conditioned for payment of all damages which may be caused either to a person or property by reason of the authorized display or sale and arising from any acts of any person or agents, employees or subcontractors of the person. At the time a permit is revoked, the State Fire Marshal or approving authority may include in the revocation order a provision prohibiting the holder of the revoked permit from applying for or obtaining another such permit, for a period not to exceed three years from the revocation date, if the State Fire Marshal or approving authority finds that the circumstances of the permit holder's failure to comply with applicable sale or display statutes and regulations presented a significant fire hazard or other public safety danger.

(2) The State Fire Marshal or the approving authority of any governmental subdivision may revoke permits for display or sale of fireworks or items described in ORS 480.127 when in the opinion of the State Fire Marshal or the approving authority the sale or display of fireworks or items described in ORS 480.127 (4) is not in compliance with applicable statutes and regulations governing such sale or displays.

(3) Permit fees required by ORS 480.130 shall not be refunded in the event such permits are revoked.

If you have questions about ORS 480.150 or other fireworks issues, contact OSFM License & Permits Manager Anita Phillips at 503-934-8264 or email anita.phillips@state.or.us.

