Public health strategies to prevent work-related injuries and illnesses in oil and gas extraction

A Western States Occupational Network (WestON) Symposium
June 26, 2015
Cheyenne, WY

Sponsored by:
• Council of State and Territorial Epidemiologists
• CDC/NIOSH Western States Division
• Mountain and Plains Education and Research Center

Bob warms up the crowd
Thank you planners!

CSTE
• Amy Patel
California DPH
• Bob Harrison
MAP-ERC
• Jana Gurkin

NIOSH WSD
• Yvonne Boudreau
• Kyla Retzer
• Liz Dalsey
• Sophie Ridl
Nebraska DPH
• Tracy Miller
Background

• Had “carry-over” funds from previous WestON meetings

• Worked with NIOSH OEP to identify and agree on OGE as an important western issue
A full day: 8am-5pm

Public health strategies to prevent work-related injuries and illnesses in oil and gas extraction (OGE)

- Western States Occupational Network (WestON) Symposium
- Council of State and Territorial Epidemiologists (CSTE)
- CDC/NIOSH Western States Division
- Mountain and Plains Education and Research Center

June 26, 2015
Little America Hotel, Cheyenne, WY

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>7:30 am</td>
<td>Registration</td>
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<tr>
<td>8:00 am</td>
<td>Welcome/meeting objectives</td>
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<tr>
<td></td>
<td>Robert Harrison, California Department of Public Health/CSTE</td>
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<td>Lee Newman, Director, Mountain and Plains Education and Research Center</td>
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<tr>
<td>8:15 am</td>
<td>Introductions – All Attendees</td>
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<tr>
<td></td>
<td>Moderator = Meredith Towe, Wyoming Department of Workforce Services</td>
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<td>8:45 am</td>
<td>The big picture: People, places and processes in OGE</td>
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<td>Moderator = Tracy Miller, North Dakota Department of Health</td>
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<td></td>
<td>The ABCs of energy extraction</td>
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<td></td>
<td>JD Darni, Oil and Gas Specialist, Federal OSHA Region 8</td>
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<td></td>
<td>Demographics and data: What do we know?</td>
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<td></td>
<td>Kyla Retzer, CDC-NIOSH Western States Division</td>
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<td>10:00 am</td>
<td>Break</td>
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<tr>
<td>10:15 am</td>
<td>Health hazards and outcomes: Is there a problem?</td>
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<td>Moderator = Yvonne Boudreau, CDC-NIOSH Western States Division</td>
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<td>What we can (and can’t) see can hurt us: Silica, VOCs and benzene</td>
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<td>Eric Esswein, CDC-NIOSH Western States Division</td>
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<td>Medical surveillance and health outcomes</td>
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<td>Michael Kosnett, University of Colorado</td>
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<td>11:30 am</td>
<td>Lunch (on your own)</td>
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<td>1:00 pm</td>
<td>Collaborations: The carrot, the stick, and more</td>
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<td>Moderator = Liz Dalsey, CDC-NIOSH Western States Division</td>
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<td>State oil and gas partnerships that can work</td>
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<td>Nathan Nordin, Wyoming Oil and Gas Industry Safety Alliance</td>
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<td>OSHA Enforcement and Cooperative Programs</td>
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<td>Herb Gibson – Area Director, Denver Area Office, Federal OSHA</td>
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<td>An examination of workers’ compensation claims data for the Colorado</td>
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<td>oil and gas industry</td>
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<td>Maggie Cook-Shimanek – Mountain and Plains Education and Research Center</td>
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~40 Attendees

CA, CO, NC, ND, NM, SD, WY

State, NIOSH, OSHA, Academic

Industry, Coroner, Public Radio, Legislature
Meeting in tandem

Wyoming Workforce Safety & Development Summit

June 24-25, 2015

~300 participants
Prominent oil & gas industry participation
Challenges identified

- **High risk jobs** with high fatality rates
- **Responsible party**: multi-employer worksites, subcontractors, small employers, independent contractors
- **Dynamic workforce** – tough to reach/track/influence; transient
Challenges continued

- Completeness of data collection
- Employment peaks and valleys
- Latency periods for cancer, lung diseases
Successes in recent years

- Decline in fatality rates over 10yrs
- Creation of multiple partnerships
- Improved tracking systems & efforts
- More topic specific reporting
- Development of engineering controls
Successes continued

- **Characterizing** silica, benzene and VOC exposures
- **Targeted** consultation & compliance
- **Industry models** of safety protection and promotion

Eric reminds us of the BIG “S” and little “h”
Research gaps and next steps

• Theme # 1 - **Data & Reporting**
  – Improve data collection and tracking
  – Promote existing prevention opportunities
  – Identify methods for health and chronic disease studies
  – Enhance field research: exposure assessment and intervention evaluation

Kyla FOG’ing our minds with fatality data
Research gaps and next steps

• Theme # 2 - **Intervention**
  – Develop, distribute and evaluate worker and employer training materials
  – Disseminate best practices and engineering controls to reduce exposures
  – Improve coroner and medical examiner protocols and health care provider recognition of work-relatedness
Follow-up

• Presentations Posted: CSTE Webinar Library

• Evaluation summary...coming soon

• CSTE Oil & Gas Workgroup...coming soon
  – Env. & Occ. Collaboration
  – 21 people signed-up

• New connections abound!