Recently, I presented to a full class of retirees at the Academy of Lifelong Learning on mold and mildew prevention. The very next week, the audience was 8-year-olds, learning how to use microscopes. The range of topics, as well as the different audiences, encapsulates the goal of COEC – bringing people of all ages and experiences together around the topic of environmental health.

In 2014, we traveled to Ohio to train citizen scientists using passive samplers, we held focus groups in Oregon and Ohio to develop a novel community tool, and we began a partnership with the Swinomish Indian Tribal Community to develop a community environmental health education program.

We also partnered with OSU Extension on their “Ask an Expert” service, providing information on mold and mildew.

In addition, we nearly doubled the number of events we host or present at, serving over 1,200 community and K-12 members and producing three short videos on YouTube.

2014 was a busy year! Read on to learn more. If you want to learn more, or have questions, give me a call (541.737.4374) or send me an email at diana.rohlman@oregonstate.edu.

All the best,

Diana Rohlman, PhD
Outreach & Engagement Coordinator

The Community Outreach and Engagement Core facilitates collaborations between researchers, public health professionals and community to answer environmental public health questions and to address communities' concerns regarding environmental exposures.

Table of Contents

1. YEAR IN REVIEW
2. ENVIRONMENTAL HEALTH OUTREACH
3. ENVIRONMENTAL HEALTH ENGAGEMENT
4. COEC AT A GLANCE
Environmental Health Outreach

New multimedia to highlight our research

COEC launches three new videos highlighting novel research and current careers in environmental health.

- The passive wristband sampler
- Behind the Scenes: Wristband
- Careers in Environmental Health

290+ views 120+ views 1000+ views

Unsolved Mysteries updated! Learn about flow cytometry, mass spectrometry gas chromatography and microarrays in these interactive modules.

- Flow Cytometry - How does it work?
- Microarray - How does it work?

Over 98,000 people visited this popular site in 2014!

Youtube channel: osu_ehsc
Website: http://unsolvedmysteries.oregonstate.edu/

EHSC Website updated with new and revised resources

NEW Updated educational materials for the general public

- Well Water
- Sun Safety

REVISED Resources and materials for educators and after-school groups

- Curriculum
- Workshops
- Newsletter

COMING SOON Future resources

Unsolved Mysteries expansion

- Modeling Air Pollution
- Understanding Environmental Epidemiology

Freely available
Website: http://blogs.oregonstate.edu/hydroville/

Visit us on-line at ehsc.oregonstate.edu/outreach to see our new look!
Understanding the Effect of Unconventional Natural Gas Drilling on Air Quality

Researchers at the University of Cincinnati (UC) and Oregon State University (OSU) worked with community members to sample in Carroll County, OH. COEC partnered with the University of Cincinnati COEC to work with the community to:

- Train users how to use the samplers
- Develop environmental health literacy
- Develop effective data reporting strategies

Who: University of Cincinnati and Oregon State University EHSC

What: Studying air quality in Carroll County, OH around UNGD sites

Why: There is not much known about the effect of UNGD on air quality and human health

The ELF and ELF Tracker: Community-based air quality research

The ELF (Exposure, Location and Lung Function) is a portable, light-weight device consisting of a spirometer, phone and a passive wristband sampler. The ELF Tracker is a novel app that transmits data in real-time to the study team. Developed in collaboration with Beyond Toxics and Carroll Concerned Citizens, COEC collated community feedback to improve the device and app. Following three iterations, the device will be used in an upcoming study. Additional funding secured – pg. 4

Who: Oregon State University EHSC in collaboration with Beyond Toxics, Carroll Concerned Citizens and University of Cincinnati

What: Concurrently measures lung function, location and exposure to air pollution

Why: Environmental justice communities requested small, portable devices with these capabilities

Website: ehsc.oregonstate.edu/projects
Outreach events increased nearly 2-fold from 2013

COEC at a Glance

State of the COEC

3 Grants submitted
5 conferences
9 Ask an Expert questions
11 Products produced and shared
18 Trainees & Faculty involved in outreach
47 new articles
130+ hours community outreach
495 Followers on social media
9,517 Unique website users

Collaborative grants submitted

<table>
<thead>
<tr>
<th>National Institutes of Health</th>
<th>FUNDED Personal Environmental Exposure Assessment using Wristbands for Epidemiological Studies in Disadvantaged Communities</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>Developing an informal environmental health education model for use in Tribal communities</td>
</tr>
<tr>
<td>Environmental Protection Agency</td>
<td>Personal and Stationary Air Monitoring: Environmental Preparedness and Resilience Empowering People</td>
</tr>
</tbody>
</table>

To learn more, find us on-line or connect with us on social media

Website: ehsc.oregonstate.edu
Facebook: osu_ehsc
Twitter: osu_ehsc