

# Stakeholder Advisory Board Meeting

October 26, 2021





## **Stakeholder Advisory Board Meeting agenda**

Introductions	9:00-9:15
CEC and Center Update and Q&A	9:15-9:30
Community-initiated Pilot study Q&A	9:30-9:55
Break	9:50-9:55
SAB Development – Stakeholder Jamboard Breakouts	9:55-10:25
Wrap up & Evaluation survey	10:25-10:30



## The Team









Diana Rohlman,
PhD
CEC Director
Oregon State University

Jackilen Shannon,
PhD, MPH
CEC Deputy Director
Director – Community
Outreach, Research &
Engagement Team
Oregon Health & Science
University

Kim Brown, MBA
CEC Program Manager
Oregon Health &
Science University

Emily Ho, PhD
IHSFC Director
Director – Linus Pauling
Institute
Oregon State University



- 1. Name
- 2. Affiliation, where you are sitting right now
- **3.Ice-breaker** pick your preferred question
  - If you could have one superpower, what would it be?
  - If you could invite one person to dinner, living or dead, who would it be?
- 4. Tag next person

# CEC Updates





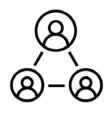
# CEC FACILITATES ENGAGEMENT



• Enhance and expand stakeholder engagement across PNW.



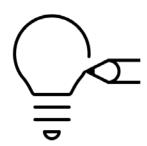
 Represent and identify emerging environmental health topics.

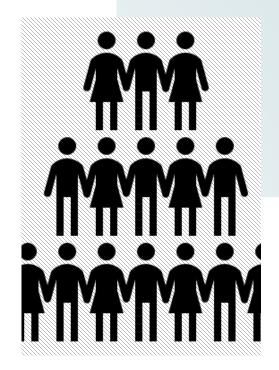


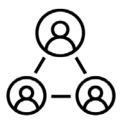
 Contribute to a network of expertise across stakeholders to foster collaboration and address environmental health concerns.



• Disseminate opportunities from stakeholders to scientists, and from scientists to stakeholders.





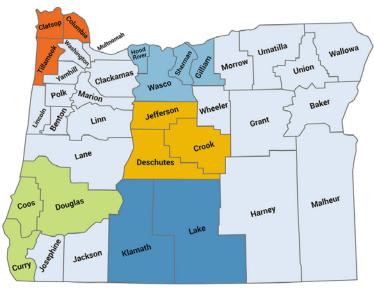


#### Stakeholder Pilot Project Reviewer

3 hr. time commitment

Q- Is this something you might be interested in or pass on to others?

#### Regional EH networking



- Community Research
   Liaisons reaching out to
   community-based EH
   organizations throughout
   Oregon.
- Community ProjectAssistance 5 consults



# Discovery Index

## Stakeholder "Community" Conversations

Non-governmental organizations Legislators Academics Communities 4 Regulatory Health Care --- Industry

Manufacturers

"We spend a lot of time responding to community members questions and we need to help them find answers."

"I'd like this to give me resources to answer our questions. Is our water safe? What is being put into our water? How do we protect people and animals?"

# PILOT PROJECTS



#### **Opportunities**

**Pilot Projects** 

**Upcoming** 

Application

Deadline

Eligibility

Deadline: Jan 15, 2022

Time-sensitive applications: rolling application



Focus on environmental health



Involves a Center investigator

- Oregon State University
- Oregon Health & Science University
- University of Oregon
- Other investigators eligible to join; email Dr. Molly Kile
  - molly.kile@oregonstate.edu



Basic, engaged, or translational research



\$20,000 base budget +\$5,000 if using Center resources (zebrafish, CEC, chemistry core, IHSFC)



# West Eugene Air Toxics Exposure Study





Diana Rohlman (OSU) and Lisa Arkin (Beyond Toxics)



Diana Rohlman, PhD | Assistant Professor, Sr Research
College of Public Health and Human Sciences | PNW Center for Translational Environmental Health Research

#### **BACKGROUND**



- Environmental justice organization
- Over a decade working in West Eugene
- Member of Community Core team with the Oregon DEQ, LRAPA and OHA



- 31-acre wood treatment facility operating since 1943
- Situated in a mix of residential and industrial areas (residential areas within ¼ mile)
- Soil, air, and groundwater contamination previously reported
- Hundreds of reports since the 1970s filed with LRAPA

#### **BACKGROUND**

Table 4. Comparison of Median and Maximum Long-term (24-hour) Sampling Concentrations with Chronic Non-Cancer-Based and Cancer-Based Comparison Values Note: Blank spaces indicate values were unavailable

		Concentration		Health Guidelines - Chronic	
		Median	Maximum	Comparison Value, Non- Cancer (EMEG)	Comparison Value, Cancer (CREG)
	Compounds	[μg/m³]	[μg/m³]	[μg/m³]	[μg/m³]
	Acenaphthene	0.33	1.0	Unavailable	$0.91^{2}$
4	Fluorene	0.18	0.5	Unavailable	0.012
	Naphthalene	3.06	12.9	41	0.033
	Phenanthrene	0.17	0.3	Unavailable	$0.91^{2}$
	Total PAHs (BaP Equivalent) *	0.00068	0.0018	Unavailable	0.0009 <sup>3</sup>

Agency for Toxic Substances and Disease Registry (ATSDR) Comparison Value Guidance and Naphthalene Toxicological Profile [9]

Nisbet et al., Toxic Equivalency Factors (TEFs) for Polycyclic Aromatic Hydrocarbons (PAHs) [10]

<sup>&</sup>lt;sup>3</sup>Oregon Department of Environmental Quality (DEQ) Air Toxic Benchmark for Naphthalene and Total Polycyclic Aromatic Hydrocarbons (PAHs) [11]

<sup>\*</sup>Sum of individual Benzo[a]Pyrene equivalent concentrations for acenaphthene, fluorene, and phenanthrene, excludes naphthalene, Total PAH Concentration = Equivalency Factor<sub>acenaph</sub> \* Concentration<sub>acenaph</sub>+ Equivalency Factor<sub>phenanthrene</sub> \* Concentration<sub>phenanthrene</sub> \* Concentration<sub>phenanthrene</sub>

#### **PROJECT GOALS**

Characterize the type and number of PAHs in the air in West Eugene.

West Eugene, Oregon. Environmental Justice community.

History of concerns related to emissions from JH Baxter

Translate and evaluate environmental health literacy

Return air quality and individual chemical exposure data to study participants and the West Eugene community.



#### **ODOR COMPLAINTS**



#### **HEALTH COMPLAINTS**

(headache, nausea, dizziness, difficulty breathing, eye irritation)

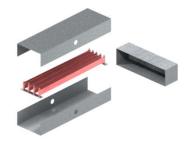


#### **NAPHTHALENE**

(2007 - identified elevated levels)

#### **METHODS**

Characterize the type and number of PAHs in the air in West Eugene



Deploy stationary samplers around the facility across all four cardinal directions for seven days.

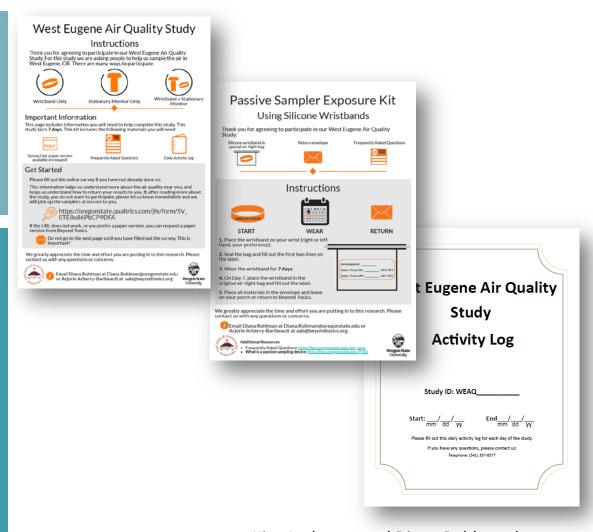
Recruit individuals living within 1 mile of the facility to wear personal passive sampling wristbands for seven days.

Analyze all samplers for 63 PAHs.

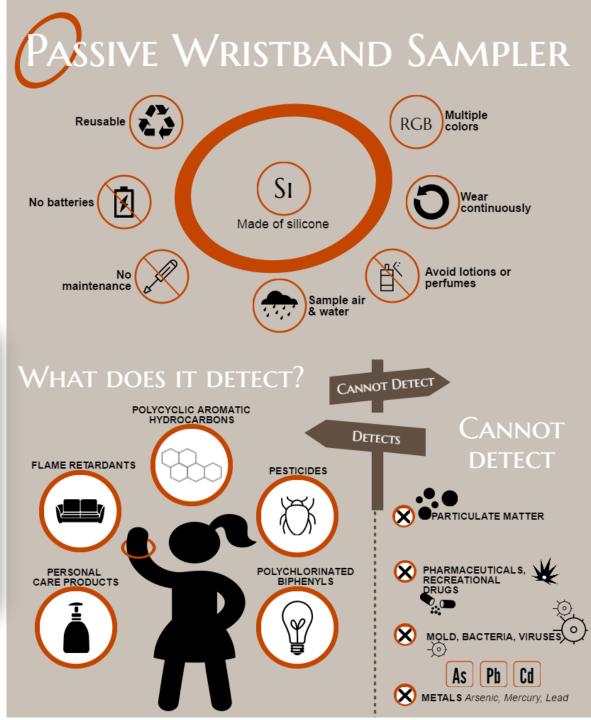
- Analytic method includes the PAHs previously analyzed by SHINE
- Full list of analytes: <a href="http://fses.oregonstate.edu/methods">http://fses.oregonstate.edu/methods</a>

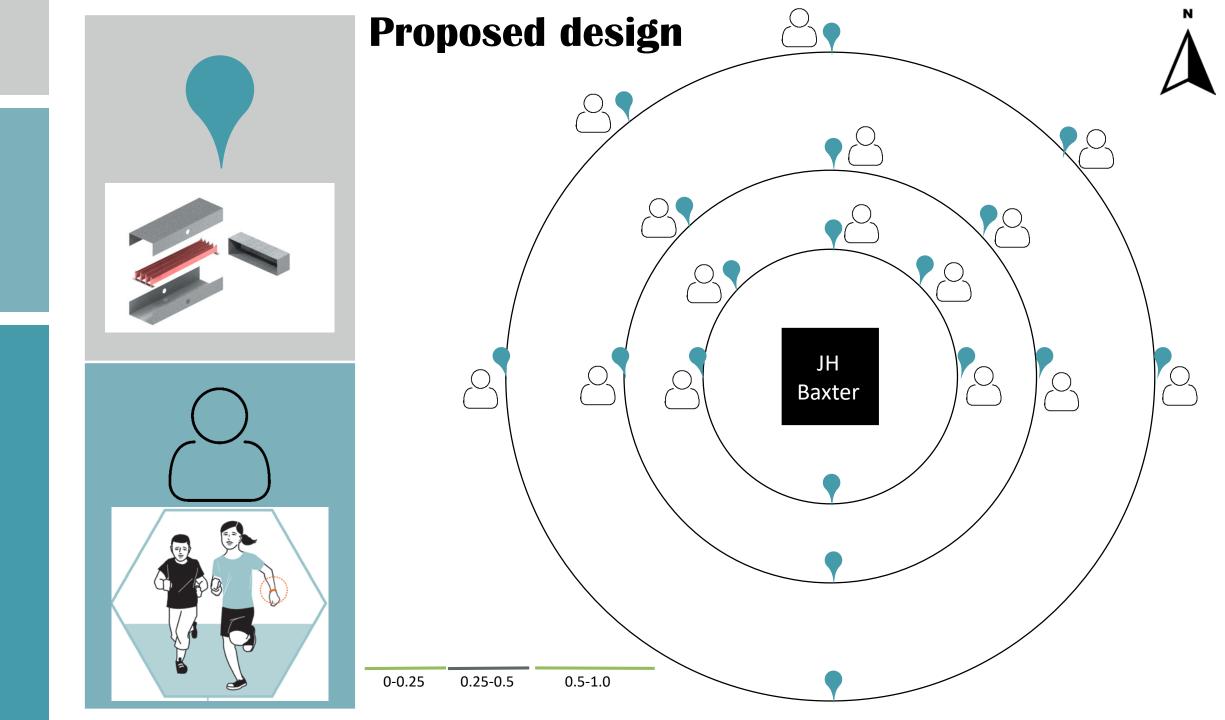


#### **METHODS**



**CONFLICT OF INTEREST STATEMENT** Kim Anderson and Diana Rohlman have a conflict of interest related to this study. These researchers own or are related to someone who owns a company that provides services related to the silicone wristbands.

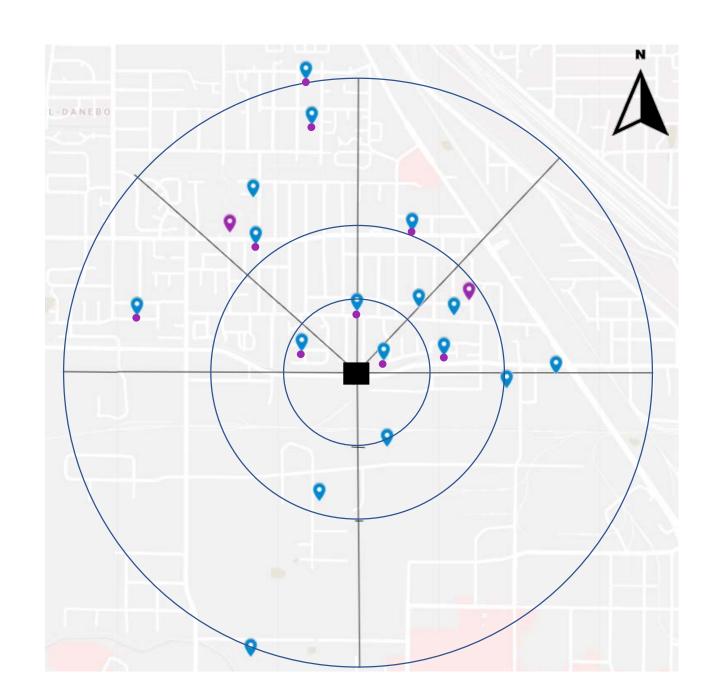




## Final design

Stationary monitors (blue)

Wristbands (purple)



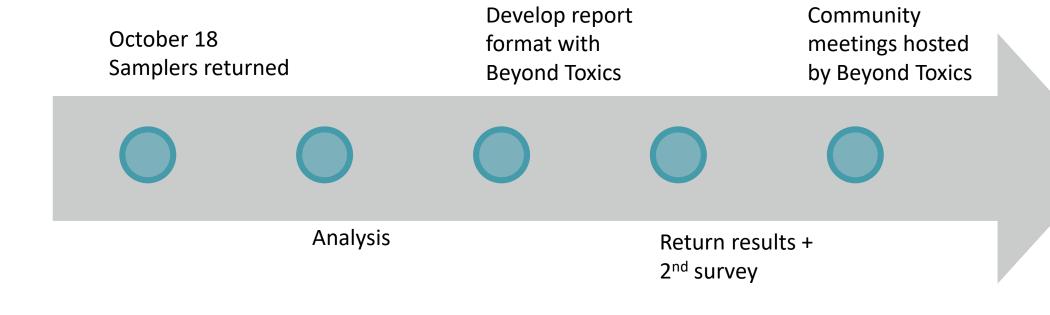
### October 11, 2021

## Field deployment

- 2 Beyond Toxics staff trained and out in the field
  - Support provided by CXC Team 2 led by Dr. Lane Tidwell
- Trip blanks utilized
- 17 stationary locations deployed
  - One site deployed in triplicate
  - Samplers deployed ~1 meter above ground
- 15 silicone wristbands disseminated



#### **NEXT STEPS**



#### **ACKNOWLEDGEMENTS**



#### **Beyond Toxics**

Lisa Arkin – Executive Director (Co-Principal Investigator)
Arjorie Arberry-Baribeault
Eric Burdette
Mashal Rahmati
Xitlali Torres
Ana Molina

#### **Chemistry Exposure Core**

Kim Anderson – Director Pete Hoffman – Assistant Director Lane Tidwell

**West Eugene participants** – thank you for your time and dedication to this study

Funding was provided through the Pilot Projects Program of the Pacific Northwest Center for Translational Environmental Health Research at Oregon State University. The Center is supported by the National Institute of Environmental Health Sciences, grant number P30 ES030287.



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Klamath County Public Health Pilot Project

# Wildfire smoke exposure and infant health

Klamath County

High rates of:

- Infant mortality
- Preterm birth
- Low birthweight

Concern over prenatal exposure to wildfire smoke





# QUESTIONS?



# 5 Minute Break Please be back @ 9:55

# SAB STRUCTURE





# "Mad Lib" Charter Development

1. CEC wants input from members and affiliates on the guiding document (e.g., commitment, composition, stakeholders, new members).

2. Complete over next 6-12 months

3. Share DRAFT

4. Delphi decision making



Presented by: Amy Wilson, MPH



## **Evaluation Background and Purpose**

- External evaluation
  - Conducted by OHSU Evaluation Core
- Purpose: evaluation of Center's Community Engagement Core (CEC)
  - Includes CEC-specific evaluation efforts,
     and cross-work throughout the Center



## **SAB Evaluation Focus**

- Better understand **strengths and challenges** in participating in the SAB
- SAB representation
  - Research interests, areas of expertise
  - Who should be included in SAB? Who is missing?
- Identify opportunities for improvement for Center
- Measure **changes in SAB engagement** over time
- Measure changes in SAB membership/affiliation over time





## **SAB Evaluation Activities**

Biannual surveys





#### Community Engagement Core: Stakeholder Advisory Board Survey

Please help us improve the CEC Stakeholder Advisory Board, and better understand your research interests by taking this short survey. The survey will take about **5 minutes**.

• Future interviews



## Questions?



We will follow up with survey results.





### **Jamboard Activity**

#### STAKEHOLDERS ON THE SAB

- 1. Break out into 2 groups
- 2. Discuss how you define Stakeholder Groups
- 3. Understand where you fit
- 4. Identify who is missing





## WRAP UP AND NEXT STEPS



SAB NOTES, SLIDES,



NEXT MEETING April 2022



**DISCOVERY INDEX - Community Conversations** 



**EVALUATION** 

Amy will be sending a survey right now by email

# THANK YOU!

