WELCOME to COHORT 61!

With 60 monitoring cohorts to date, the ROCIS team and our participants have learned a great deal about low-cost monitors and the relevance of the information they provide. We have developed systems to help interpret and visualize data, as well as to offer customized, actionable steps to improve indoor air quality. As participants, you continue to help the ROCIS LCMP team to improve our process, feedback, and the value to you and your household. Your data helps us better understand the potential and best applications for both behavioral and technical interventions to reduce particles. We also monitor for other pollutants—carbon monoxide, carbon dioxide, and radon—which can reveal ongoing health risks from your house or the appliances within it. Your participation helps build the base of knowledge to improve the quality of air in our homes and workplaces and reduce the effects of poor outdoor air quality.

We hope you find this as interesting as we do. By collecting this information, we are able to offer better guidance on the use of low-cost monitors and the resolution of air quality problems.

If you have questions or want more information, contact:

Elly Helgen (cohort management, logistics, & interventions) elisha.helgen@gmail.com
Bill Collinge (data interpretation [lead] & equipment support) bcollingepgh@gmail.com
Linda Wigington (data interpretation & troubleshooting equipment) lwigington1@outlook.com

Rob Busher (computer & equipment troubleshooting) robb@rocis.org

Sam Totoni (health impacts) skc35@pitt.edu

Jessica Kester (meeting support & online resources) Jessica.Kester@psu.edu

Thank you again for the investment you are making! The ROCIS LCMP team—Elly, Bill, Linda, Rob, Sam & Jessie

PROJECT OBJECTIVES

1) Understand How to Use Monitors to Empower Occupants

- ✓ What monitors/visualization create the most appropriate call to action in reducing indoor exposure?
- √ What process is effective for supporting and maintaining occupant engagement?

2) Collect Baseline Data

- ✓ How do outdoor particles affect indoor particle counts?
- ✓ How do house/building and mechanical system characteristics influence the indoor/outdoor particle count relationships?

3) Explore the Impact of Behavioral and Technical Interventions

- ✓ Can low-cost monitors increase the effectiveness of the operation of a home's filtration systems?
- ✓ When is it appropriate to use a central air handler and high MERV filter to reduce particles in a home, and what determines/predicts the range of effectiveness?

4) Support and Create Champions!

VIRTUAL COHORT ASSUMPTIONS

- All online meetings are 75 minutes
- All meeting times are the same: first at 7 PM and repeated at noon the next day
 - 7 PM meetings: Monday & Thursday
 - Noon meetings: Tuesday & Friday
- All meetings are recorded and best of each is shared
- Participation in each meeting is either "required" (black font) or "recommended" (red font)
- Each meeting will provide time for questions/discussion

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ROCIS Low-Cost Monitoring Project

Prior to Kick-off Meeting Thursday, November 7, 7 PM/Friday, November 8, 12 PM (noon)

Complete surveys: ROCIS Cohort 61 Registration (by **Thursday, October 24**) & House Characterization Survey (by **Monday, October 28**)

And optionally:

- 1. Join our private group on Facebook and follow ROCIS on Facebook, Instagram, LinkedIn, and Twitter
- 2. Download Smell Pittsburgh App

By Saturday (end of night), November 9

- 1) Complete and sign Terms of Use (on front of clipboard)
- 2) Place and plug in monitors (one Dylos needs to be in a protected outdoor location w/ power)
- 3) Take photos of (a) signed Terms of Use and (b) equipment as set up in monitoring locations
- **4)** Upload photos of (a) your signed Terms of Use, (b) equipment in set up location, and (c) your head shot or your household for our virtual group photo
- 5) Confirm with us (by text or email) that everything is set up and working

Ongoing Monitoring

- 1) Daily monitor checks (5–7 minutes)
 - Week 1 & 2: Check all monitors twice a day (5 out of 7 days)
 - Weeks 3 & 4: Check monitors a minimum of once a day (5 out of 7 days)
- 2) Keep a daily diary/log of activity in your home/workplace (5–7 minutes per day)
- 3) Collect data and upload to ROCIS weekly (15-30 minutes)
 - Download Dylos data
 - Send Log/Incident report with manually collected readings of radon, CO, and CO₂
- 4) Continue to monitor and experiment! (weeks 2, 3, & 4)
 - Change household behavior or equipment operation to explore the impact. Examples include
 increasing runtime of air handler, portable air cleaner, or kitchen range hood; cooking on back burners
 and covering pans when cooking.

Wrap-up Meeting Monday, December 9, 7 PM/Tuesday, December 10, 12 PM (noon)

- 1) Repack equipment and kit and make arrangements for pick-up
- 2) Complete close-out survey

PROPOSED SCHEDULE & TOPICS (bold & black font indicate required sessions)

Attendance in all of the sessions is encouraged as you will gain more from participating

- All Monday/Thursday evening sessions are 7:00–8:15 PM
- Tuesday/Friday daytime sessions are 12:00–1:15 PM

10/21 & 10/22: Intro Webinar

11/7 & 11/8: Cohort Kick-off

11/11 & 11/12: Check-in

11/14 & 11/15: Dylos Data Downloading

11/18 & 11/19: 'Good' Numbers?

11/21 & 11/22: Filtration Interventions

11/25 & 11/26: Behavioral Interventions 12/2 & 12/3 Accessing Online Resources

12/5 & 12/6: Health Impacts of Particles and Your Questions

12/9 & 12/10: Wrap-up Meeting

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