Welcome to EOHSA!

As a new school year begins, so does another year full of potential for professional development and growth! The Environmental and Occupational Health Student Association is an organization combined with the university’s former environmental and industrial hygiene clubs. We hope to kick off this year at a running start and have the most member involvement as possible!

The aim of EOHSA is to facilitate a smooth transition for all our members from college students to qualified and exceptionally employable professionals. In order to reach this goal, we will be arranging guest lecturers to increase relevant knowledge on today’s topics of interest, training opportunities, and networking with local professionals. We will also be engaging in community service activities as they arise throughout the semester.

What is Environmental and Occupational Health?
The fields of environmental and occupational health focus on evaluating and addressing the chemical, physical, and biological risks people are exposed to in their daily lives. Industrial hygiene is part of this field but focuses primarily upon workplace exposures. Interests in this field range from toxicology, epidemiology, water quality, air quality, microbiology, risk assessment, environmental modeling, and much more!

Local Parent Chapters
The Environmental and Occupational Health Student Association is affiliated with a variety of professional associations and student members are encouraged to apply for membership into these national organizations. These organizations include the American Society of Safety Engineers (ASSE) and the American Industrial Hygiene Association (AIHA).

Both groups have local chapters here in Arizona with active professionals in the public health field. Members of these chapters are excited to work with this student group and greatly encourage student attendance at their monthly meetings. The specific dates will be mentioned at each EOHSA meeting by the ASSE and AIHA vice presidents and will be included in the quarterly newsletters.

First Meeting: Fit Testing Activity
Students learned about the importance of fit testing, how fit testing is done, and practiced donning and doffing respirators provided by Layla from the University of Arizona’s Risk Management Services.

Previous Research/Internships
Second year graduate students describe their internship sites, experiences, and projects. Internship projects ranged from water quality to fit testing employees to vector surveillance.
First Meeting: Fit Testing Activity

During the first meeting of the semester held on September 17, 2018, Layla facilitated a fit test demonstration where she explained:

- what fit testing is and why it’s important to be fit tested
- the different respirators workers may use and be assigned
- how to don and doff N95 respirators
- the steps of fit testing individuals
- how to assemble a PAPR respirator

During the N95 walkthrough, students were provided with their own N95 masks to practice the donning and doffing procedures and testing to see if the masks were sealed correctly against their faces (picture shown to the left).

After the N95 tutorial, Layla asked a volunteer, Myrelis, to come forward and practice being fit tested. During this demonstration, Layla described the solution she was using to spray into the hood and provided step-by-step instructions on what she was doing (picture shown on front page of newsletter). After this initial demonstration, Robert and Suzanna stepped in to conduct the remaining steps of fit testing under the guidance of Layla.

Once the fit testing demonstration was completed, students were able to practice assembling the PAPR Respirator on Suzanna (picture shown above) by following a written standard operating procedure.

A huge thank you to both Layla and the University of Arizona’s Risk Management Services to allow us this exciting opportunity to practice fit testing!

AIHA and ASSP Registration

How to Register for AZ AIHA

1. Click the following link: http://events.r20.constantcontact.com/register/event?oeidk=a07eipcieu008e195f0&llr=ann7sxbab
2. Click “Register Now!” button
3. Enter in all required fields
4. When you reach “Fee” select the Student Membership (the Arizona chapter was kind enough to waive fees for students!)
5. Submit the Form

NOTE: The steps above are to register for the local Arizona AIHA section. It is recommended to also register for the national AIHA membership as it is discounted to $31 for students.

For information on how to register a national membership, please send an email to Gabriel Mancillas at gmancillas@email.arizona.edu.

How to Register for ASSP

1. Click the following link: https://www.assp.org/membership/apply-to-join
2. Download the student application and fill it out
3. Send any questions and/or the completed application to Jamaica Dillard or Jordan Senia at jamaicad@email.arizona.edu or jordansenia@email.arizona.edu

NOTE: You will have to pay the membership fee if you complete the application online.
Previous Research/Internships

Mosquito Surveillance in Pima County, Arizona

“During my internship with the vector control program, I learned how to trap for mosquitoes, identify the sex and species of mosquitoes, test certain mosquito species for West Nile virus, and use Geographic Information Systems to map out the locations of these traps around the county. My goal was to assist the vector program in ensuring that all inhabited regions of the county were adequately represented in current surveillance efforts.”

-Jamaica Dillard

WEST Center Water Treatment

“My internship involves research on alternative water treatment processes at the Snyder Research Group. Currently, the primary treatment processes used in the US and other parts of the world can be costly and unfeasible to certain populations. Alternative treatment processes that utilize ozone and bio-activated carbon can change current potable reuse standards. My internship is focused on the MIEX study that compares the attenuation effects of multiple magnetic ion exchange resins on trace organic compounds, including pharmaceuticals.”

-Derek Liu

Terracon Consultants Inc.

“I’m currently working as an Industrial Hygiene intern at the University of Arizona Richard F. Caris Mirror Lab. I am identifying water-related health hazards in the facility and developing a water management plan to manage risks associated with these hazards. I’m also pursuing a research project examining transport of a waterborne virus through two types of agricultural irrigation systems.”

-Jordan Senia

3-D Printer Exposure Assessment with Risk Management Services

“I did an industrial hygiene internship at Risk Management Services. I conducted an exposure assessment on 3D printers to study if the ultra-fine particles and VOCs released by the printers impair indoor air quality.”

-Layla Gabir

WANT TO ADD TO THE NEWSLETTER?

If there is information you would like to see in future newsletters or if you have anything to add to the newsletters, please send an email to Jamaica Dillard at jamaicad@email.arizona.edu
Important Dates to Remember:

- **October 9** – ASU Safety Leadership in Planning, Design, and Construction Workshop (must be registered)
  - Ira Fulton Schools of Engineering, 8:00AM-4:00 PM
- **October 15** – U.S. Public Health Service JRCOSTEP Preliminary Screening begins for EH
  - Call 1-888-225-3302 Mon-Fri 9:00AM-4:00PM EST
- **October 19** – Influenza Pandemic Exercise (must be registered)
  - Drachman Hall, 2:00-4:30PM (must have registered by Sep. 20th)
  - Counts as an IPE for 1st year MPH students
- **October 22** – Safety Q&A Meeting with Lorraine Santiago and Steve Holland
  - Drachman Hall Rm A123-125, 12:00-1:00PM
- **October 24** – ASSP Colossal Caves Awards Meeting
  - Colossal Caves, 6:00-8:30PM

Current Scholarship and Internship Opportunities

**ASSP MacCallum Scholarship**

- Information about the scholarship as well as the application can be found at [https://southaz.assp.org/scholarships/](https://southaz.assp.org/scholarships/)
- Students who are members of the Southern Arizona Chapter are given priority for this scholarship so join and apply!
- Important Dates:
  - **September 1** – Application period begins
  - **December 1** – Application period ends
  - ~**April 1** – Award recipients announced

**Honeywell Industrial Hygiene Internship**

- Eligibility Criteria / Selection Process:
  - Completing Junior year of undergraduate studies or within 1 year of acquiring Master’s degree in health, safety, environmental, industrial hygiene, or a related field by May 2019
  - Graduation Date – May 2020
  - Must be available from mid-May 2019 to August 2019 (12 week internship commitment)
  - Send any resumes/inquiries to paul.holzman@honeywell.com and/or heidi.roeber@honeywell.com by October 26, 2018