



DETECT

DISTANCE EDUCATION AND TRAINING

**EMERGING CONTAMINANTS
AND TECHNOLOGIES**





DETECT

DISTANCE EDUCATION AND TRAINING
**EMERGING CONTAMINANTS
AND TECHNOLOGIES**

DETECT: progress and goals

Ellen M. Wells

April 26, 2024

Project Basics



- The goal of DETECT is to create educational materials and provide research experiences related to **emerging contaminants, emerging technologies, and safety management systems**
- Integration of cutting-edge methods for distance education
- Target audience: industrial hygiene professionals, graduate students
- Purdue University, University of Toledo, University of South Florida



Products

- Online courses
- Online (virtual reality) laboratories
- In-person experiences



Online courses



- 3 courses:
 - Emerging Contaminants
 - Emerging Technologies
 - Safety Management Systems
- Freely available via Purdue Online
- Asynchronous (self-paced)
- Multiple, short lessons
- Emphasis on interactive components

Online laboratories



- 4 online laboratories planned
- Bioaerosol assessment, IH assessment using safety cabinets
- Noise and ergonomic assessments planned
- Will be online or virtual reality based
- Integrated into online courses or available as stand-alone projects

In-person experiences



- Information and research training
- Interactive professional development sessions/webinars
- Covers topics included in online courses
- In-person demonstrations of online laboratories

Progress



- Emerging Contaminants online course is available
- Emerging Technologies online course in progress
- Two online labs are in progress
- Four PDCs at AIHA Connect, May 2024

Demonstrations

- Emerging Contaminants online course
- In-progress online laboratories



Next steps



- Complete remaining two online courses
- Complete and integrate online laboratories
- Establish additional professional development opportunities

EC Online course



This course is **FREE**, interactive, self-paced, and designed to be completed by students or professionals in occupational and environmental health and safety. It is a one-credit course.

To register and complete the course, use the QR code or visit:

<http://www.eventreg.purdue.edu/online/DETECT1>



Acknowledgements



- Purdue Online
- Purdue Envision
- Purdue University faculty
 - Jae Hong Park
 - Johnathan Shannahan
 - Jason Harris
 - Linda Nie
 - Jennifer Freeman
 - Jason Cannon
 - Linda Lee
 - Marisol Sepulveda
 - Mark Wilson
- University of Toledo
 - April Ames
 - Sherry Milz
 - Michael Valigosky
- University of South Florida
 - Marie Bourgeois
 - Thomas Bernard
- Funding: R25 ES033045 (Superfund Program)



DETECT

DISTANCE EDUCATION AND TRAINING

**EMERGING CONTAMINANTS
AND TECHNOLOGIES**

