Personal Sensor Technology: The Present and Future
Indoor Air Quality Symposium 2015

Friday, October 16, 2015
8:30 am to 4:00 pm
REGISTER ONLINE

State Hygienic Laboratory, University of Iowa
UI Research Campus
2490 Crosspark Rd
Coralville, Iowa

Provided by:
AIHA® Iowa-Illinois Local Section
WORKSAFE DAOI

Protecting Worker Health
AGENDA

8:30 am  Registration

8:45  Welcome - Kent Candee

8:50  NIOSH and Other Federal Agency Views on the Future of Exposure Sciences, Personal Sensors and Total Exposure Health the Occupational Exposome
Gayle DeBord, PhD

9:50  Break

10:00  Application of Personal Sensors to Occupational Health in the Real World
Gayle DeBord, PhD

11:00  Creative Use of Direct-Reading Instruments
Thomas Peters, PhD, CIH

12:00 pm  Lunch (provided)

12:40  Integration of Low-Cost Sensor Networks for Industrial Hygiene
Thomas Peters, PhD, CIH

1:40  Break

1:50  Personal Sensor Technology and the Law: Realities and Considerations
Skylar Limkemann, JD

3:50  Closing Remarks - Paul Richmond

4:00  Adjourn

PROGRAM

Purpose
This symposium will provide participants with current information on industrial hygiene in relation to the advancement of sensor technology including the impact personal sensors will have in our daily lives now and in the future. Participants will explore sensor uses in occupational health & safety and discuss ethical challenges presented with the technology’s capabilities.

Intended Audience
This symposium is intended for individuals desiring an understanding of the science and impact of personal sensors and their current or future role, including: industrial hygienists, nurses, nurse practitioners, safety professionals, occupational physicians, loss control representatives, and other individuals interested in improving the health and safety of workers and the public.

PRESENTERS

D. Gayle DeBord, PhD
Chief, Biomonitoring & Health Assessment Branch
Division of Applied Research & Technology
National Institute for Occupational Safety & Health
Centers for Disease Control & Prevention
Cincinnati, Ohio

From Dr. DeBord’s presentation, participants will learn about a life-cycle approach to the development, selection, and use of modern direct-reading and sensor technologies, the activities of the Exposure Science 21 Federal Initiative, current examples of occupational applications and opportunities for sensors and considerations for the ethical use of sensors in the workplace.

Thomas Peters, PhD, CIH
Associate Professor
Director, Industrial Hygiene Program Area
Heartland Center for Occupational & Environmental Health
Department of Occupational & Environmental Health
College of Public Health
University of Iowa
Iowa City, Iowa

Dr. Peters develops novel sampling methods. In current work, Dr. Peters is developing an inexpensive sensor network with worker tracking to assess personal exposure to ozone, noise and particulates. His presentation will cover the advantages to direct-reading instrumentation, like personal sensors, and the use of data mapping.

Skylar Limkemann, JD
Scheldrup Blades Law Firm
Cedar Rapids, Iowa

Skylar will present examples of potential legal claims from employees against employers, the public against a private business, and the public against the government for incidents involving personal sensor technology. He will outline some of the potential legal hurdles that a plaintiff may have to overcome, including defenses that may be available, as well as some of the practical realities involved with cases based on new technology. Skylar will share examples, including some of his personal experiences as a former Fire Captain and EMT, to help illustrate the legal principles and important ideas that attendees should take away from the presentation. Additional considerations that property owners should consider, specifically ethical considerations and the involvement of regulatory agencies such as OSHA, the EPA, and the DNR may also be discussed. This course will not address claims against the companies that make these monitoring devices.
EDUCATIONAL OBJECTIVES

Upon completion of this program, participants will be able to:
- Describe the different viewpoints toward sensor technologies
- Articulate how personal sensors would be applied
- Generalize the integration and creation of a sensor network
- Explain the role of personal sensor data mapping
- Discuss the potential legal ramifications of personal sensors
- Assess where ethical dilemmas could arise with personal sensors

REGISTRATION

$90 - If registered by September 30, 2015
$110 - If registering on or after October 1, 2015
$130 - Day of, on-site registrations

The registration fee includes all program instruction, materials, and lunch. Pre-registration is strongly encouraged. Cash, check, or credit card are accepted.

Cancellation/Refund policy: If registration is cancelled prior to September 30, 2015, the registration fee will be refunded less a $30 handling charge. After October 1, 2015, the full amount will be invoiced.

REGISTRATION ONLINE!

Or copy & paste into browser: https://www.magnetmail.net/events/81fd580727c420b8dd1625ebd6a82d2a

CONTINUING EDUCATION

CIH CERTIFICATION MAINTENANCE
Use 6 contact hours toward your CIH certification maintenance requirement by the American Board of Industrial Hygiene (ABIH).

NURSING CEUs
The University of Iowa College of Nursing is an Iowa Board of Nursing Approved Provider Number 1. Personal Sensor Technology: The Present and Future is approved for 7.2 contact hours on October 16, 2015. The Heartland Center requires full-time attendance for CEU award.

NON DISCRIMINATION POLICY

The University of Iowa prohibits discrimination in employment, educational programs, and activities on the basis of race, national origin, color, creed, religion, sex, age, disability, veteran status, sexual orientation, gender identity, or associational preference. The University also affirms its commitment to providing equal opportunities and equal access to University facilities. For additional information contact the Office of Equal Opportunity and Diversity, (319) 335-0705.

Individuals with disabilities are encouraged to attend all University of Iowa-sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact Megan Meyer at 319-335-4684 or megan-cz-meyer@uiowa.edu.

LOCATION

This continuing education event will be held in the Center for the Advancement of Laboratory Science (lower level) at:
State Hygienic Laboratory, University of Iowa
UI Research Park
2490 Crosspark Road
Coralville, Iowa 52241

Parking is free at the State Hygienic Laboratory on the east side of the building, with the entrance on the north side. Please visit maps.uiowa.edu/hli for a map to locate the building at the corner of Highway 965 & Oakdale Blvd in Coralville.

LODGING

A room block has been reserved at Country Inn & Suites (2571 Heartland Place, Coralville, IA) for October 15, 2015 at $99+tax per night. To make your reservation at these rates, call the hotel by October 1, 2015 (319.545.8464) and ask for room block: Indoor Air Quality.

QUESTIONS?

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