



EAGLESON INSTITUTE

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Preventing & Treating Biological Exposures: *An Occupational Health Colloquium*

June 10-12, 2018
Kimpton Shorebreak Hotel
Huntington Beach, CA

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An Occupational Health Colloquium

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Registration Options

	Date	Before 4/28/18	After 4/28/18
Preconference Workshop: Accessing Public Health Resources for Occupational Health	June 10, 8:00am - 12:00pm	\$245	\$245
Preconference Workshop: Occupational Health Issues For Work in Biological Laboratories and Vivariums	June 10, 1:00pm - 5:00pm	\$245	\$245
Occupational Health Colloquium	June 11-12, 2018	\$1095	\$1195
Attend all 3 and receive \$100 discount off your total registration	June 10-12, 2018	\$1485	\$1585

For more information: eagleson.org/conferences/occ



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ENVIRONMENTAL MEDICINE



PRECONFERENCE COURSES:

SUNDAY JUNE 10, 2018

8:00 AM – 12:00 PM

ACCESSING PUBLIC HEALTH RESOURCES FOR OCCUPATIONAL HEALTH

Julie Fischer, PhD, Co-Director, Center for Global Health Science and Security, Georgetown University Medical School
Federal, State, and local public health organizations share responsibility for efforts to protect workers and the community from exposures to pathogens that threaten the public’s health. Resources developed to prevent, detect, and respond to public health threats, including globally emerging infectious diseases, may be useful in the management of biological risks in the research laboratory or clinical setting. This course will provide an overview of public health resources available for biosafety and occupational health programs, and will use a case study-based approach to highlight mechanisms for and issues in accessing these resources.

1:00 PM – 5:00 PM

OCCUPATIONAL HEALTH ISSUES FOR WORK IN BIOLOGICAL LABORATORIES AND VIVARIUMS

Gary Fujimoto, MD, Physician/Occupational Medicine Consultant; Maureen Thompson, RN, COHN-S, RBP, Environmental Health and Safety, Emory University
This introduction or refresher course provides an overview of medical surveillance and monitoring issues for those working with animals and in biological laboratories. This will include issues surrounding biological hazards, zoonotic diseases, select agents, work with non-human primates and anesthetic gases, humanized animals along with updates on bloodborne pathogens.

COLLOQUIUM:

MONDAY, JUNE 11, 2018

8:30 AM

WELCOME

SESSION A: PRION-LIKE PROTEINS

8:45 AM

PRESENTATION/DISCUSSION: NEURODEGENERATIVE DISORDERS AND PROTEINOPATHIES

Susan Vleck, PhD, RPB, Environmental Health & Safety, Stanford University
One pathological characteristic of neurodegenerative

diseases such as Alzheimer’s and Parkinson’s is the accumulation and aggregation of misfolded proteins. Recent studies have given rise to a growing body of evidence that these proteins may misfold and propagate in a prion-like mechanism, one that is capable of cell-to-cell transmission. Prions are some of the most difficult pathogenic agents to decontaminate, and evidence is beginning to suggest that these neurodegenerative-associated proteins are similarly resistant to many methods of decontamination. This session will provide a brief background of these issues and discuss the risk assessment implications for the handling and disinfection of these proteins, as well as occupational health concerns.

SESSION B: TOXINS

10:00 AM

PRESENTATION/DISCUSSION: CHALLENGES WHEN TOXINS ARE USED AS RESEARCH TOOLS

Stacey Kraemer, PhD, Biosafety, UCLA

Oversight of toxins often falls into a safety gap between biological and chemical safety offices, providing challenges in communicating expectations for safety and occupational health planning and response. After a brief introduction of microbial and nonmicrobial toxins, Dr. Kraemer will present case studies from her experiences in academic institutions that demonstrate the complex questions arising from their use. Participants will have the opportunity to discuss the challenges they face at their facilities, along with potential solutions.

11:00 AM

CASE STUDIES: CFA (COMPLETE FREUND’S ADJUVANT) CASE STUDIES

Gary Fujimoto, MD, Physician/Occupational Medicine Consultant; Maureen Thompson, RN, COHN-S, RBP, Environmental Health and Safety, Emory University

SESSION C: GENE THERAPY

1:00 PM

PRESENTATION: GENE THERAPY: THE BIG PICTURE

Daniel Kavanagh, PhD, Senior Scientific Advisor, Gene Therapy

The pace of effective medical treatments for genetic disorders and cancers has been rapidly increasing due to several successes in gene therapy research and applications. What are these successes? What will be happening in the future? What are the biosafety implications?

2:15 PM

PRESENTATION: LENTIVIRAL AND RETROVIRAL VECTOR UPDATE

Gary Fujimoto, MD, Physician/Occupational Medicine Consultant

Retroviral and lentiviral vectors are being utilized in an increasing number of ways as gene transfer becomes a mainstream technique in modern medicine. This presentation will discuss the updates on these technologies including CRISPR and RNA interference along with the risks and treatment options following laboratory exposures.

3:45 PM

DISCUSSION: POST EXPOSURE PROPHYLAXIS FOR RETROVIRAL VECTORS

Gary Fujimoto, MD, Physician/Occupational Medicine Consultant; Warner Hudson, MD, FACOEM FAAFP, Medical Director, UCLA Medical Center

ACOEM recently published new Lentiviral Vector Medical Guidelines that arose from a discussion at this meeting. How would treatment of an exposure to a Retroviral Vector be similar and how would it differ? Be part of this discussion that could lead to future Retroviral Vector Medical Guidelines!

5:00 PM

CONCLUSION

TUESDAY JUNE 12, 2018

SESSION D: VETERINARY INFECTIOUS DISEASES

8:30 AM

PRESENTATION: HUMANIZED MICE - SCIENCE AND SAFETY

Scott Kitchen, PhD, Director, UCLA CFAR/JCCC Humanized Mouse Core Laboratory; Warner Hudson, MD, FACOEM FAAFP, Medical Director, UCLA Medical Center; Stacey Kraemer, PhD, Biosafety, UCLA

What is a humanized mouse and how is it created? Why is it useful, and what are some of the current research projects using them? Dr. Kitchen will address the science behind the creation of these mice, and a panel discussion that addresses the biosafety and occupational health issues will follow. The panel, composed of researchers, as well as medical and biosafety professionals, will address the biosafety challenges for vivarium staff, researchers, and outside contractors, as well as discuss the information that needs to be brought to the IBC and IACUC.

10:45 AM

PRESENTATION: “BAD BUGS FROM THE BARNYARD TO YOUR BENCH”

Roger Belcourt, MD, MPH, FACOEM, Medical Director of Occupational Health, UC Davis

This lecture will explore the agents responsible for Q fever and Brucellosis. The implementation of a Q fever surveillance program at UC Davis is described.

SESSION E: TOOLS FOR BIOSAFETY

1:15 PM

PRESENTATION/DISCUSSION: UCLA SPREADSHEET

Stacey Kraemer, PhD, Biosafety, UCLA

The expectations for preventative measures and surveillance provisions appropriate with broad-scope research enterprises can be a challenge to communicate to both researchers, support staff and occupational health providers. These may include measures appropriate to address exposures to

animals, biohazards and physical hazards in various research settings, including those associated with human subject and international research programs. In an attempt to provide alignment among these diverse groups, UCLA’s Occupational Health and Safety Coordinating Council collaborated to develop a reference tool, which will be presented. Participants will have the opportunity to discuss the UCLA tool, additional or alternative communication solutions that have utilized at their institutions to facilitate collaborative communication of Occupational Health expectations.

SESSION G: TRAVEL MEDICINE

2:15 PM

PRESENTATION/DISCUSSION: VACCINES, MEDICATIONS, MOSQUITOES AND MUCH MORE!

Warner Hudson, MD, FACOEM FAAFP, Medical Director, UCLA Medical Center; Julie Fischer, PhD, Co-Director, Center for Global Health Science and Security , Georgetown University Medical School

This session will include medical information relevant to protecting people’s health while working in a field setting, traveling to other countries for work, or traveling to respond to natural disasters. This session will be presented by an occupational medicine physician from a major university who has been active in travel medicine for 40 years, and preps individuals heading out on such adventures on a regular basis.

3:45 PM

FINAL Q&A

4:00 PM

CONCLUSION

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at the Kimpton Shorebreak Hotel.**



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