Protecting Workers in Clinical Laboratories, Research, Animal Care, and Public Health Communities

In partnership with the American Biological Safety Association and the Eagleson Institute

CO-SPONSORS

ACLA – American Clinical Laboratory Association
CLMA – Clinical Laboratory Management Association
CLSI – Clinical and Laboratory Standards Institute (formally NCCLS)
APHL – Association of Public Health Laboratories
CAP – College of American Pathologists
ACOEM – American College of Occupational and Environmental Medicine
AMA – American Medical Association
ANA – American Nurses Association
AAOHN – American Association of Occupational Health Nurses
ASM – American Society for Microbiology
AIHA – American Industrial Hygiene Association
USDA/ARS – Agricultural Research Service
AALAS – American Association for Laboratory Animal Science
AAVLD – American Association of Veterinary Laboratory Diagnosticians
Elizabeth R. Griffin Research Foundation

Uniquely bringing together clinical, research, animal and safety professionals like never before.
Presymposium Courses

For complete course descriptions, including objectives and outlines, visit www.eagleson.org/cdc

SATURDAY, FEBRUARY 9
8:00 AM – 12:00 PM

Basics of Infection Control
INSTRUCTOR: Tara MacCannell, MS, PhD, CDC
This course will address factors associated with the transmission of infections and relevant infection control strategies. Participants will have the opportunity to see a comparison of infection prevention and control measures used in health care with biosafety practices in laboratories and veterinary practice. This will include a discussion on engineering controls, personal protective equipment (PPE), hand hygiene, environmental disinfection, and waste disposal. Additional topics to be examined are vaccination requirements, post-exposure management, infection prevention and control measures in the field or in resource-limited settings.

Animal Biosafety 101
FACILITATOR: Nicole Duffee, DVM, PhD, AALAS
INSTRUCTORS: Shanna Nesby, DVM, CDC; Joe Kozlovac, RBP, CBSP, USDA/ARS; Tim Mandrell, DVM, DACLAM, University of Tennessee
Beginning with a brief review of animal biosafety levels, this course will address practices and procedures to ensure appropriate biosafety precautions for different hazards. Additional questions to be addressed include: Does the facility design, engineering controls and PPE meet your needs? What are the main points to consider in an occupational health program? Implementing and enforcing biosafety management programs will be discussed, and the class will conclude with examples of training programs.

Industrial Hygiene for Biosafety Professionals
INSTRUCTOR: Matthew D. Finucane, MD, CIH, University of Pennsylvania
This course will discuss the fundamental principles of industrial hygiene and chemical safety. Topics to be covered will include the anticipation, recognition, evaluation and control of chemical stressors as well as the application of these factors to the use of chemicals in academic and industrial research laboratories. Participants will be provided with a foundation on which to build a better understanding of how to recognize, evaluate and control potential chemical health hazards in the laboratory.

SATURDAY, FEBRUARY 9
1:00 PM – 5:00 PM

Biosafety in Research and Clinical Settings
INSTRUCTORS: Jared Schwartz, MD, PhD, FCAP, Presbyterian Health Care System; Jonathan Richmond, PhD, Jonathan Richmond and Associates
Participants in this course will learn the basic concepts of biological safety and its application to various work settings. The discussion will be centered on the fundamental principles of safe work practices and procedures when working with known and unknown infectious pathogens. Methods for ensuring the integrity of samples and for auditing programs will also be explored. The course will include tips for the protection of coworkers, community members and the environment.

Design of ABSL 1–4 Animal Facilities
INSTRUCTOR: Randy Kray, AIA, CUH2A
This course will provide a basic overview of the characteristics and layouts of ABSL1 through ABSL4 laboratories. Primary containment equipment options will be explored. The course will cover the basic design considerations for main containment systems, the containment barrier, pressure control and airflow and decontamination systems.

Chemical Waste Management
INSTRUCTORS: Bruce Tobias, MS, SAIC NCI-Frederick; Joey Romagnoli, BS, RHCMM, Environmental Consultant
Managing chemical wastes throughout an institution can be a daunting task. This course will present some ideas on how to design and carry out a well-integrated waste management program. Current waste management regulations and best practices will be reviewed and then applied to a variety of occupational settings. This course will also include some training activities that are fun, educational and, most importantly, enhance compliance levels throughout a facility.

Re-Certification Course: Packing and Shipping Infectious Substances
INSTRUCTORS: Larry Gray PhD, TriHealth Laboratories; Cristina Vargas, CDC
This highly interactive, 4-hour course is designed for persons who desire to be re-certified in packing and shipping infectious substances. The didactic part of the course will consist of a review of the current regulations for packing and shipping as published by IATA and the United States DOT and a discussion of recent changes in these regulations. The course will also include a practical side in which participants will be presented with a set of real-life situations in which they need to decide how different substances should be packed and shipped. A written test will be given.
Risk Assessment: Bench, Bedside and Barn

INSTRUCTORS: Joe Kozlovac, MS, RBP, CBSP, USDA/ARS; David Bressler, MS, CBSP, CDC; Harvey Holmes, PhD, CDC

The assessment and management of risk in a variety of settings will be the focus of this course. Participants will be provided with an overview of the different aspects of biological risk assessment in microbiological/research laboratories, in the clinical environment, in veterinary diagnostic labs and in agricultural research. Risk communication and overall risk management strategies will be stressed. Key teaching points will be reinforced using risk assessment exercises and case studies.

Design of Clinical Laboratory Facilities

INSTRUCTOR: Karen K. Mortland, AIA, MT(ASCP), Mortland Planning & Design, Inc.

This course will explore how to determine the biosafety level for clinical and anatomic pathology laboratories, and the HVAC requirements for the different levels. It will also address equipment issues and new technologies such as the placement of hoods and autoclaves; OSHA requirements, codes and recommendations for accreditation; and steps to take in preparing the laboratory for a security breach. Examples will be drawn from small rural hospitals to large university hospitals.

Disinfection

INSTRUCTOR: Lynne Schulster, PhD, CDC; Matthew D. Finucane, MD, CIH, University of Pennsylvania; and an EPA Representative

This course will begin with a review of the principles and practices of cleaning and disinfection, and will include discussion on contemporary topics such as emerging viral pathogens and spore-forming bacteria. An EPA representative will explain the EPA Registration of Disinfectants as per FIFRA and the standardized potency testing of disinfectants. Additionally, what are the hazards associated with cleaning chemicals and disinfectants? What is involved in “green cleaning” and what safety precautions for workers need to be implemented?

Lab Safety Training Made Simple

INSTRUCTORS: Terry Jo Gill, MT, (ASCP) MA Ed, "The Safety Lady"; Jonathan Richmond, PhD, Jonathan Richmond and Associates; Betsy Weirich, MS, CBSP, CDC

Does the thought of unannounced OSHA, Joint Commission, or CAP inspections keep you up at night? Do you have the required documentation for employee safety training? Would your staff respond appropriately to safety questions by inspectors? Relax; this course will give you the tools you need to prepare training on a variety of safety topics. In small, round-table group settings participants will be challenged to use adult learning principals to develop focused approaches and critical responses to problems posed around their typical workplace environments.

International Travel Preparedness

INSTRUCTORS: L. Casey Chosewood, MD, CDC; Phyllis Kozarsky, MD, Emory University/CDC; Alan Czarkowski, DO, CDC; Lee Ann Jean-Louis, RN, CDC

This course will provide a general overview of key health and safety topics in international travel, including information from “the CDC Yellow Book.” As successful travel starts with a visit to your physician, this course will discuss the nuts and bolts of this visit. Details will be presented regarding international travel immunizations and prophylaxis. This course will conclude with a “Practical Tips and War Stories” roundtable, where speakers will feature best practices and answer your questions.

Moving from BSL2 to BSL3

INSTRUCTORS: Carol Tobias, MBA, BSN, RN, Barquist Army Medical Clinic; Betsy Weirich, MS, CBSP, CDC

When moving from BSL2 to BSL3 what changes need to be made? Modifying the physical structure is necessary due to increased security and ventilation requirements. Lab practices and SOPs will need to be altered based on risk assessment. Occupational health programs will need to consider medical emergencies and special immunizations. All of the above will be discussed in this course, along with handling the changes in public perception.

Biological Safety Cabinets and Laboratory Hoods

INSTRUCTORS: Jack Price, CIH, Northeastern University; David Stuart, PhD, The Baker Company

Chemical hoods and biological safety cabinets are important parts of all laboratories. Participants will learn how they work; how HEPA filters function; how to identify different types; how to select the proper hood for work being performed; how to exhaust different types; and what to expect during testing. Video clips will be used to demonstrate effective work practices.

Developing and Implementing a Respiratory Protection Program

INSTRUCTORS: Mary Gene Ryan, MPH, BSN, RN, COHN-S/SM, FAANH, MGRyan & Co., Inc.; Pam Kostle, CIH, University Hygienic Laboratory

Do your employees wear a respirator for potential avian flu, tuberculosis, Hanta virus, or SARS exposure? Did you know that OSHA has approved the assigned protection factors and two quantitative fit tests? Do you know about the FDA and NIOSH approved respirators for public use in public health medical emergencies? Get an update on Respiratory Protection Program requirements, key components and understand the changes. You will go through a practical of the respirator fit test steps and develop an RPP addendum based on a provided scenario.
Caryl Griffin, BSN, MSN, MDiv  
President, Elizabeth R. Griffin Research Foundation

Caryl Griffin, along with her husband, Dr. Bill Griffin, and daughter, Dr. Kimberly Hicks, created the Elizabeth R. Griffin Research Foundation following the death of their daughter/sister, Beth Griffin, a researcher in a primate laboratory. Beth died of Monkey B Virus - Cercopithecine herpesvirus 1 (Herpesvirus simiae) following an ocular exposure during physical examination of a Rhesus Macaque. The Foundation was established to create awareness and safe practices in research, as well as intervention for persons/institutions exposed to the possibility of or for those surviving a zoonotic disease.

The Rev. Griffin is a nurse and an ordained minister in Holston Conference of the United Methodist Church and is currently on leave of absence to work with Dr. Julia Hilliard and the Georgia State B-Virus Laboratory in Atlanta. She has also served as an independent consultant to hospitals and physician practice groups, developing patient-centered practice through creating effective interdepartmental relationships, policies and procedures that facilitate timely patient care, and practices that meet quality standards of Joint Commission on Accreditation of Hospitals as well as Occupational Safety and Health Administration guidelines.

OVERVIEW OF KEYNOTE: The keynote address will focus on the human element that unifies the uncommon diversity of vocations represented at this year’s CDC conference. What common threads weave these diverse professions together? What part does each person play in the bigger picture, from laboratory research to occupational health, from animal workers to clinical laboratory workers? What attitudes can sabotage or secure safety in a workplace? The session will outline the critical path steps to our interdependency in this life-saving research, including key decision points before and after research incidents, the personal and professional cost when safety is compromised, and the processes and communication that are paramount in order to support a safe environment in which to live and work and make a difference. Why do researchers potentially put their lives at risk to do the work at hand, day in and day out, and why is it worth it!?

CONFERENCE-AT-A-GLANCE

KEYNOTE ADDRESS: Safer Together – A Common Purpose Arises from Uncommon Diversity

SESSION ONE: Risk Assessment and Management

SESSION TWO: Worker Protection

SESSION THREE: Preparedness

SESSION FOUR: Concurrent:
   A. Animal Issues   B. Clinical Issues   C. Industrial Hygiene/Biosafety Issues

SESSION FIVE: Facility Design and Equipment

Continuing education credit will be offered for various professions based on hours of instruction.
Welcome Reception
Join us Sunday evening at 5:00 in the Exhibit Hall for the welcome reception.
This is a great opportunity to meet other participants, the speakers, and our corporate sponsors. You might even win a prize at the raffle. Don’t miss it!

Symposium Banquet
If you can’t make it to New Orleans, join us Tuesday night for a Mardi Gras celebration like no other.
We will have great music, delicious food, awesome decorations, and surprises galore. Don’t miss this opportunity to relax, enjoy and spend time with old and new colleagues. The festivities will begin at 7:00 PM at the Omni Hotel.

Hotel Information
Luxurious comfort embraces pure style at the elegant, four-diamond Omni Hotel at CNN Center. Located in the heart of downtown Atlanta in the CNN Center Complex, this luxury hotel treats you to views of the spectacular downtown skyline or picturesque Centennial Olympic Park across the street. A perfect blend of cosmopolitan sophistication and southern hospitality, the Omni is the center of many of Atlanta’s attractions including the World of Coca Cola Museum and the Georgia Aquarium, both within walking distance.

A block of rooms has been reserved at the special rate of $150/single ($124/government). To make reservations call 800-524-0500 and indicate you are attending the CDC Biosafety Symposium or go to www.eagleson.org/cdc

Deadline to make reservations is January 9, 2008.
Conference Outline

MONDAY, FEBRUARY 11, 2008

WELCOME:
L. Casey Chosewood, MD, CDC
Jonathan Richmond, PhD,
Jonathan Richmond and Associates

KEYNOTE:
Safer Together – A Common Purpose Arises from Uncommon Diversity
Caryl Griffin, BSN, MSN, MDiv,
Elizabeth R. Griffin Research Foundation

Update on 5th Edition of the Biosafety in Microbiological and Biomedical Laboratories (BMBL)
Deborah E. Wilson, PhD, NIH

SESSION 1: Risk Assessment and Management
Moderator: L. Casey Chosewood, MD, CDC
• Overview of Risk Assessment Process
  Mike Pentella, PhD, D(ABMM),
  University of Iowa Hygienic Laboratory
• Using Risk Assessment to Enhance Worker Safety: A Case Study from a Clinical Laboratory Evaluation
  J. Michael Miller, PhD, CDC
• Management Responsibilities
  Stephen Wallenhaupt, MD,
  Novant Health

LUNCH
Update from the American Biological Safety Association (ABSA)

SESSION 2: Worker Protection
Moderators: Mary Gene Ryan, MPH, BSN, RN,
COHN-S/SM, FAAOHN, MGRyan & Co., Inc.; and
Carolyn Murray, MD, MPH, Dartmouth-Hitchcock Medical Center
• PPE Dress for Success Fashion Show:
  Considerations for Selection
  Carol Tobias, MBA, BSN, RN,
  Barquist Army Health Clinic
• A Model Respiratory Program
  John Scarano, MS, CHMM,
  Scarano Group, CDC Respiratory Protection Program
• Emergency Response and Staffing Concerns
  Dori B. Reisman, MD, MPH, (CAPT, USPHS),
  CDC/NIOSH
• Discussion/ Late Breaking Topics

TUESDAY, FEBRUARY 12, 2008

SESSION 3: Preparedness
Moderator: Jared Schwartz, MD, PhD, FCAP,
Presbyterian Health Care System
• Laboratory Acquired Tularemia:
  The Boston University Experience
  John R. Murphy, PhD, Boston University
• SARS Case Study from Toronto:
  Donald E. Low, MD, FRCPC, Ontario Public Health Laboratory
• Worker Protection for Deployment and Field Activities
  L. Casey Chosewood, MD, CDC
• Development, Implementation and Effectiveness of a Local Network of Clinical Microbiology Laboratories: A Model for Preparedness, Communication and Worker Safety
  Larry Gray, PhD, TriHealth Laboratories
• Event Communication:
  Be First, Be Right, Be Credible
  Barbara Reynolds, CDC
• Exercise: Vulnerability Analysis
  Jonathan Richmond, PhD,
  Jonathan Richmond and Associates

LUNCH
SESSION 4: Concurrent Break-out Sessions
(Participants select one)

TRACT A: Animal Issues
Moderator: Nicole Duffee, DVM, PhD, AALAS
• Occupational Health
  Lee Wugofski, MD, MPH,
  Federal Occupational Health
• Allergen Considerations for Animal Staff
  Gregg M. Stave, MD, JD, MPH, Consultant, Duke University
• Chemical Management Program
  Matthew D. Finucane, MS, CIH,
  University of Pennsylvania
• Animal Restraint and Biosafety Considerations
  John R. Herbold, DVM, MPH, PhD, University of Texas,
  School of Public Health
• Training Programs Issues
  J. Paul Spurlock, DVM, MPH, CDC
Registration Information

Symposium Fees:
Symposium fees include Opening Reception, Dinner Event, attendance at Symposium sessions, lunch on Monday and Tuesday and a Symposium CD.

<table>
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<tr>
<th>Fees</th>
<th>By December 21</th>
<th>After December 21</th>
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<tbody>
<tr>
<td>Symposium</td>
<td>$595</td>
<td>$645</td>
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<tr>
<td>Dinner – Guest</td>
<td>$75</td>
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<tr>
<td>Presymposium courses</td>
<td>- $75.00/each</td>
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CEUs:
Continuing education credit will be offered for various professions based on hours of instruction.

Cancellation Policy:
Individuals who cancel on or before January 21, 2008, are entitled to a full refund less $50 service fee. No refunds will be given after January 21, 2008. Notification of cancellation must be received in writing, and refunds will be issued after February 25, 2008. Substitutions for a registered attendee may be made at any time.

Registration Information:
To register for this symposium, go to www.eagleson.org/cdc and register on-line or call 207-490-1076 to register by phone or request registration form.

Wednesday, February 13, 2008
Session 5: Facility Design and Equipment
Moderators: Jonathan Richmond, PhD, Richmond and Associates; and Steve Lange, CUH2A

- Trends in Design and Equipment for Research, Animal and Clinical Laboratories
  Research: Randy Kray, AIA, CUH2A
  Clinical: Karen Mortland, AIA, MT(ASCP), Mortland Planning & Design, Inc.
  Animal: Jerry Percifield, AIA, Lord Aeck and Sargent

- Core Issues in Retrofitting an Existing Facility: Case Studies
  Jon Crane, AIA, CUH2A

- Safety and Design
  Philip W. Smith, MD, Nebraska Medical Center

Special Presentation:
Safety and Global Public Health: A Perspective from WHO
May Chu, PhD, WHO

TRACT B: Clinical Issues
Moderator: Ardis Hoven, MD, American Medical Association

- Controversies in Pre-placement and Medical Surveillance
  Reid Boswell, MD, MPH, Mount Auburn Hospital

- Ergonomic Approaches to Injury Prevention
  Ruth Landau, NP, MS, Practical Ergonomics in Biotechnology

- Key Factors for Effective Training Programs
  Terry Jo Gile, MT(ASCP) MA Ed, “The Safety Lady”

- Evaluation and Management of Laboratory Exposures and Injuries
  Carolyn Murray, MD, MPH, Dartmouth-Hitchcock Medical Center

- Panel Discussion by All Presenters:
  Case Studies from the Audience

TRACT C: Industrial Hygiene/Biosafety Issues
Moderators: Pam Kostle, CIH, University of Iowa; and Betsy Weirich, MS, CBSP, CDC

- Pandemic Flu Planning
  Dina Matz, CIH, Las Alamos National Labs; Ralph O’Connor, CAPT, USPHS, CDC

- IH Sampling Methods
  Matt Arduino, MS, DrPH; Ken Martinez, MSEE, CIH, NIOSH; Angela Weber, MS, CDC

Session 5: Facility Design and Equipment
Moderators: Jonathan Richmond, PhD, Richmond and Associates; and Steve Lange, CUH2A

- Trends in Design and Equipment for Research, Animal and Clinical Laboratories
  Research: Randy Kray, AIA, CUH2A
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