

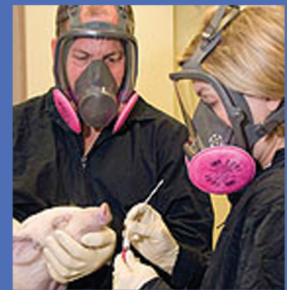


**UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE**

**1ST INTERNATIONAL
BIOSAFETY & BIOCONTAINMENT SYMPOSIUM**



**ANIMAL PRODUCTION & PROTECTION:
CHALLENGES, RISKS,
AND BEST PRACTICES**



**February 6-9, 2011
Baltimore Marriott Inner Harbor at Camden Yards
Baltimore, Maryland**

FINAL PROGRAM



Schedule of Events

Sunday, February 6, 2011

7:00 am - 5:00 pm	Registration	Stadium Foyer
8:00 am - 12:00 pm	1. Commissioning and Decommissioning Operational Models	Stadium 1
1:00 pm - 5:00 pm	2. Carcass Disposal and Effluent Decontamination	Stadium 1
8:00 am - 12:00 pm	3. Animal Welfare Issues in Livestock	Stadium 2
1:00 pm - 5:00 pm	4. High Consequence Livestock Pathogens.....	Stadium 2
8:00 am - 12:00 pm	5. BSL-3Ag: The Good, The Bad, & The Ugly (Work Practices, Safeguards & Risk Management)	Stadium 3
1:00 pm - 5:00 pm	6. Introduction to Large Animal Biosafety.....	Stadium 3
6:00 pm - 7:30 pm	Opening Reception	Grand Ballroom

Monday, February 7, 2011

7:00 am - 6:00 pm	Registration	Stadium Foyer
9:00 am - 4:00 pm	Exhibits.....	Grand Ballroom
7:30 am - 6:30 pm	General Session.....	Stadium Ballroom

Tuesday, February 8, 2011

7:00 am - 6:00 pm	Registration	Stadium Foyer
9:00 am - 3:30 pm	Exhibits.....	Grand Ballroom
8:00 am - 5:30 pm	General Session.....	Stadium Ballroom
6:30 pm - 10:00 pm	Banquet.....	Grand Ballroom

Wednesday, February 9, 2011

7:00 am - 12:00 pm	Registration	Stadium Foyer
8:00 am - 12:30 pm	General Session.....	Stadium Ballroom

CITI
Collaborative Institutional Training Initiative

Biological Safety Training

Does your institution have effective training materials in Biological Safety Research Education?

Started in August of 2000 by 10 collaborating institutions, the CITI Program is a Web based, subscription supported, program used by over 1400 institutions and organizations around the world.

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Partners



Presymposium Courses

Sunday, February 6, 2011

8:00 am - 12:00 pm

1. Commissioning & De-commissioning, Operational Models

Diana Whipple, MS, United States Department of Agriculture, Agricultural Research Services, Ames, IA

Giles Tremblay, Merrick and Company, Kanata, Ontario, Canada

Christian Griot, DVM, PhD, Institute of Virology and Immunoprophylaxis, Switzerland

This course will provide a basic overview of the life cycle of containment facilities and will focus on commissioning, operating and decommissioning of the facilities. Participants will develop an understanding of the commissioning process and how to use the information that is generated. Participants also will develop an understanding of the distinction between commissioning facilities and having the facilities ready for full operations. Information will be presented on important aspects of operating containment facilities and on factors that need to be considered when decommissioning facilities.

Objectives:

- Understand the purpose of commissioning facilities and how to use the information
- Understand the distinction between commissioning facilities and having them ready for full operation
- Learn about important aspects of operating containment facilities
- Become familiar with factors that need to be considered when decommissioning containment facilities

Target Audience: Building Managers, Program Managers and Directors, Biosafety Officers

Audience Level: Basic, Intermediate

1:00 pm - 5:00 pm

2. Carcass Disposal & Effluent Decontamination

Joe Wilson, Bio-Response Solutions, Inc., Pittsboro, IN

Paul Langevin, Merrick & Company, Kanata, Ontario, Canada

This course will teach how to size and select from the 6 different types of effluent decontamination systems (EDS), the pros and cons of each different type of system, which are applicable to the different types of biocontainment facilities, and which types not to consider for certain types of facilities. Infrastructure and cost considerations will be discussed in detail. Examples of successful implementations will be reviewed with photos and discussions. Animal biocontainment facilities often face handling and disposal issues for carcass materials. The advent of alkaline hydrolysis and rendering technologies gave facility designers additional tools to consider for interface of more desirable disposal methods with the barrier. This course will also teach what types of systems are available including low and high temperature alkaline hydrolysis systems, rendering systems, pros and cons of each, and how to plan facilities for these newer technologies and how to interface the technologies with the barrier, infrastructure considerations, cost considerations, and final effluent or solids disposal considerations that may be factors in the selection of the system. Examples of implementations will be reviewed with photos and discussions.

Objectives:

- Learn all about the different types of EDS systems, how to properly select and size them, how they compare in acquisition and operational cost, and what infrastructure requirements are necessary for implementation, operation and ongoing maintenance of these systems and facilities
- Biosafety considerations in owning, operating, and maintaining the different types of systems
- Learn all about the different types of carcass disposal technologies, how to properly select and size them, how they compare in acquisition and operational cost, what infrastructure requirements are necessary for implementation, operation, and ongoing maintenance of these systems, and what issues need to be considered for final disposal of the effluents from these systems
- Biosafety considerations in owning, operating, and maintaining the different types of systems

Suggested Background: Familiarity with educational documents or planning guides available from producers of EDS and carcass disposal systems producers; facility design handbooks such as the *International Veterinary Biosafety Workgroup Handbook*

Target Audience: Biocontainment facility designers, facility administrators, biosafety professionals, animal facility personnel, and facility maintenance personnel

Audience Level: Basic, Intermediate, and Advanced

8:00 am - 12:00 pm

3. Agricultural Animal Welfare Issues in Research

Wendy J. Underwood, DVM, Eli Lilly and Company, Indianapolis, IN

John McGlone, PhD, Texas Tech University, Lubbock, TX

Thamus J. Morgan, DVM, Plum Island, NY

Jim Swearingen, DVM, National Biodefense Analysis and Countermeasures Center, Frederick, MD

This course will provide a basic overview of agricultural animal welfare in research activities. General concepts of farm animal welfare in both production and biomedical research environments will be reviewed. Farm animal welfare issues relating to research, biosafety and biocontainment will be reviewed and discussed. Specific issues relating to the use of farm animals in certain research facilities will also be discussed.

Objectives:

- Understand concepts in farm animal welfare
- Learn specific issues relating to the use of farm animals in research
- Understand farm animal welfare and regulatory oversight issues as related to containment facilities

Suggested Background: Basic agricultural animal husbandry

Target Audience: Researchers, veterinarians, animal caretakers, IACUC members, graduate students

Audience Level: All levels

1:00 pm - 5:00 pm

4. High Consequence Livestock Pathogens

Robert Heckert, DVM, Robert Heckert Consulting, LLC, Bowie, MD

William White, DVM, United States Department of Agriculture, Animal and Plant Health Inspection Services, Greenport, NY

This is an introductory course to high consequence livestock pathogens. This course will briefly review the importance of livestock diseases, provide an overview of several of the more important livestock diseases and discuss the biocontainment issues related to each.

Objectives:

- Understand the importance of livestock pathogens
- Learn the microbiology, disease expression and epidemiology of several high consequence livestock pathogens
- Understand the biocontainment required to work with high consequence livestock pathogens

Suggested Background: Basic microbiology and biosafety

Target Audience: Biosafety professionals, animal caretakers, researchers, and anyone wanting to work with agricultural animals infected with high consequence livestock pathogens

Audience Level: All levels

8:00 am - 12:00 pm

5. BSL-3Ag: The Good, The Bad, & The Ugly (Work Practices, Safeguards & Risk Management)

Scott Rusk, MS, Biosecurity Research Institute, Kansas State University, Manhattan, KS

Julie Johnson, PhD, CBSP, Biosecurity Research Institute, Kansas State University, Manhattan, KS

Mark Minihan, Biosecurity Research Institute, Kansas State University, Manhattan, KS

Hao Vu, Biosecurity Research Institute, Kansas State University, Manhattan, KS

This course will encompass comprehensive BSL-3Ag animal project management and planning strategies to include course exercises and class participation. Emergency response considerations, equipment needs, personal protective equipment options, physical injury recognition and prevention, occupational health program, entry and exit protocols, approaches to worker training, integration of research goals, and waste management and decontamination are course subject materials. Primary learning objectives and outcomes include understanding methods and approaches for BSL-3Ag operations and management and to identify distinct workplace hazards and associated risk mitigation.

Objectives:

- Identify unique aspects of BSL-3Ag biocontainment
- Understand work hazard assessment and risk mitigation steps for large animal work
- Apply emergency response scenarios in your institution
- Combined experience in biocontainment fundamentals; BSL-3, ABSL-3, and BSL-3Ag

Target Audience: Animal Care, Biosafety Officers, Lab Animal Veterinarians, Animal Facility Managers, Animal Suite Supervisors, Researchers, Research Technicians, Veterinary Technicians

Audience Level: Intermediate to Advanced

1:00 pm - 5:00 pm

6. Introduction to Large Animal Biosafety

Robert Ellis, PhD, CBSP, Colorado State University, Fort Collins, CO

Joseph Kozlovac, MS, RBP, CBSP, United States Department of Agriculture, Agricultural Research Services, Beltsville, MD

Eileen Thacker, DVM, PhD, United States Department of Agriculture, Agricultural Research Services, Beltsville, MD

This course will introduce some of the basic challenges in regards to risk assessment, facility and operational challenges to those research operations using animal or zoonotic pathogens in conjunction with livestock or wildlife species that are not found in the small animal vivarium or research laboratory.

Objectives:

- Describe the need for risk assessments in work involving large animals and disease agents
- Discuss measures for improving safety in the large animal vivarium
 - Animal Health Surveillance
 - Training
 - Facility Design (ABSL-2 thru 3Ag)
 - PPE
 - Occupational Health Surveillance
- Identify the difference in public health risk versus agricultural risk
- Discuss the difference between agricultural biosecurity and laboratory biosecurity

Target Audience: Biosafety Officers, Lab Animal Veterinarians, Animal Facility Managers, Animal Suite Supervisors, Researchers, Research Technicians, Veterinary Technicians

Audience Level: Intermediate to Advanced

Symposium Program

Monday, February 7, 2011

- 7:00 am - 6:00 pm **Registration**
9:00 am - 4:00 pm **Exhibits**
- 7:30 - 7:45 am **Welcome**
Joseph Kozlovac, MS, RBP, CBSP, Steven Kappes, PhD, United States Department of Agriculture, Agricultural Research Services, Beltsville, MD
- Session I:**
7:45 - 11:30 pm **Agriculture Research Infrastructure Challenges**
Moderator: Joseph Kozlovac, MS, RBP, CBSP, United States Department of Agriculture, Agricultural Research Services, Beltsville, MD
- 7:45 - 8:35 am **Agricultural Infrastructure Challenges—Keynote Speaker**
Jerry Jaax, DVM, Associate Vice President, Research Compliance, Kansas State University, Manhattan, KS
- 8:35 - 9:05 am **Defining ABSL-3 and BSL-3 Ag**
Robert Heckert, DVM, Robert Heckert Consulting, LLC, Bowie, MD
- 9:05 - 9:35 am **Operation & Maintenance Challenges at Plum Island**
James Johnson, MS, MBA, Department of Homeland Security, Washington, DC
- 9:35 - 9:55 am **Break in Exhibit Hall**
- 9:55 - 10:25 am **Achieving Biocontainment in Developing Countries**
Nicoletta Previsani, PhD, World Health Organization, Geneva, Switzerland
- 10:25 - 11:30 pm **Session I Roundtable—Agricultural Infrastructural Challenges: Research, Production, and Vaccine Production Diagnostic Challenges**
Moderator: Prem Paul, DVM, PhD, University of Nebraska, Lincoln, NE
Panelists: Bruce Stewart-Brown, DVM, Perdue Farms, Inc., Salisbury, MD; Martin Kuster, MD, Novartis International AG, Basel, Switzerland; David Swayne, Southeast Poultry Research Laboratory, Athens, GA
- 11:30 - 1:00 pm **Lunch in Exhibit Hall**
- 1:00 - 2:30 pm **SPECIAL SESSION**
Moderator: Jim Welch, Elizabeth R. Griffin Foundation, Kingsport, TN
- 1:00 - 2:00 pm **United States Senator Pat Roberts, Topeka, KS**
- 2:00 - 2:30 pm **Under Secretary Catherine E. Woteki, PhD, United States Department of Agriculture, Washington, DC**
- Session II:**
2:30 - 6:30 pm **Risks in Research and Field Work**
Moderator: Robert Ellis, PhD, CBSP, Colorado State University, Fort Collins, CO
- 2:30 - 3:00 pm **Porcine Reproductive and Respiratory Syndrome (PRRS): Science, Application, & Risk Assessment**
Scott Dee, DVM, PhD, University of Minnesota, St. Paul, MN
- 3:00 - 3:30 pm **Wildlife, Livestock, and Human Interface**
Steve Olsen, DVM, PhD, United States Department of Agriculture, Agricultural Research Services, Ames, IA

- 3:30 - 4:00 pm **H1N1 Response**
Amy Vincent, DVM, PhD, National Animal Disease Center, Ames, IA
- 4:00 - 4:30 pm **Break in Exhibit Hall**
- 4:30 - 5:00 pm **Avian Influenza**
Kristy Pabilonia, DVM, DACVM, Colorado State University, Fort Collins, CO
- 5:00 - 5:30 pm **Risk Communication**
Sean Kaufman, MPH, CHES, CPS, Emory University, Atlanta, GA
- 5:30 - 6:30 pm **Session II Roundtable—Agricultural Research in the Lab and Field: Risk Assessment Practices**
Moderator: Sean Kaufman, MPH, CHES, CPS, Emory University, Atlanta, GA
Presenters: Jonathan Zack, DVM, United States Department of Agriculture, Animal and Plant Health Inspection Services, Robbinsville, NJ; Christian Griot, DVM, PhD, Institute of Virology and Immunoprophylaxis, Switzerland; William White, DVM, United States Department of Agriculture, Animal and Plant Health Inspection Services, Greenport, NY

Tuesday, February 8, 2011

- 7:00 am - 6:00 pm **Registration**
9:00 am - 3:30 pm **Vendor Exhibits**
- Session III:**
8:00 am - 12:00 pm **Regulatory Changes and Response**
Moderator: Paul Meechan, PhD, RBP, CBSP, Centers for Disease Control and Prevention, Atlanta, GA
- 8:00 - 8:30 am **The Capabilities of the National Animal Health Laboratory Network**
Barbara Martin, MS, United States Department of Agriculture, Animal and Plant Health Inspection Services, Ames, IA
- 8:30 - 9:00 am **Updates to Select Agent Regulation**
Freeda Isaac, DVM, United States Department of Agriculture, Animal and Plant Health Inspection Services, Beltsville, MD
- 9:00 - 9:30 am **Dual Use Issues**
Caird Rexroad, PhD, United States Department of Agriculture, Agricultural Research Services, Washington, DC
- 9:30 - 10:00 am **Import Practices & Permitting**
Jodie Kulpa-Eddy, DVM, United States Department of Agriculture, Washington, DC
- 10:00 - 10:15 am **Break in Exhibit Hall**
- 10:15 - 10:45 am **Self-audit of Biosafety Practices/Process for Research Facilities**
Julie Johnson, PhD, CBSP, Biosecurity Research Institute, Kansas State University, Manhattan, KS
- 10:45 - 12:00 pm **Session III Roundtable—Potential Changes in Biorisk Policy**
Moderator: Robert Hawley, PhD, RBP, CBSP, Midwest Research Institute, Frederick, MD
Panelists: David Franz, DVM, PhD, Midwest Research Institute, Frederick, MD; Steve Copping, DVM, Pirbright Laboratory, Pirbright, Surrey, England; Lisa Young, Canadian Food Inspection Agency, Ottawa, Ontario, Canada
- 12:00 - 1:30 pm **Lunch in Exhibit Hall**

Session IV: 1:30 - 3:00 pm	Aquaculture Moderator: Jeff Silverstein, PhD, United States Department of Agriculture, Agricultural Research Services, Beltsville, MD
1:30 - 2:00 pm	Implementing, Auditing & Certifying Veterinary Biosecurity Programs in Aquaculture Operations David Scarfe, PhD, DVM, American Veterinary Medical Association, Schaumburg, IL
2:00 - 2:30 pm	Biosecurity in Water Recirculation Aquaculture Systems Christopher Good, DVM, PhD, Freshwater Institute, Shepherdstown, WV
2:30 - 3:00 pm	Development of an Aquaculture Disease Diagnostic Network Jill Rolland, PhD, United States Department of Agriculture, Animal and Plant Health Inspection Service, Riverdale, MD
3:00 - 3:30 pm	Break
3:30 - 4:00 pm	Containment Standards for Facilities Handling Aquatic Pathogens Lisa Young, Canadian Food Inspection Agency, Ottawa, Ontario, Canada
Session V: 4:00 - 5:30 pm	Arthropods Moderator: David Bressler, CBSP, Centers for Disease Control and Prevention, Atlanta, GA
4:00 - 4:30 pm	International Challenges Related to Arthropod Containment Dan Strickman, PhD, United States Department of Agriculture, Agricultural Research Services, Beltsville, MD
4:30 - 5:00 pm	Working Safely with Rift Valley Fever Mike Turell, PhD, United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD
5:00 - 5:30 pm	Emergence of Exotic Blue Tongue Uwe Mueller-Doblies, Dr. Med. Vet, Institute for Animal Health, Pirbright Laboratory, Pirbright, Surrey, England
6:30 - 10:00 pm	Banquet Special performance by David G. Wiley, MPhys, University of Pittsburgh, Johnstown, PA, frequent special guest and "Mad Scientist" featured on the Jay Leno Show

Wednesday, February 9, 2011

7:00 am - 1:00 pm	Registration
Session VI: 8:00 - 12:00 pm	One Health Moderator: Lonnie King, DVM, Ohio State University, Columbus, OH
8:00 - 8:50 am	One Health—Keynote Speaker Laura H. Kahn, MD, Princeton University, Princeton, NJ
8:50 - 9:20 am	NBAF Project Update Michelle Colby, DVM, Department of Homeland Security, Washington, DC
9:20 - 9:50 am	Applications of One Health Mo Salman, PhD, DACVPM, Colorado State University, Fort Collins, CO
9:50 - 10:20 am	The OIE Laboratory Twinning Program—Opportunities for a One Health Approach Kate Glynn, DVM, World Organization for Animal Health, Paris, France
10:20 - 10:35 am	Break

- 10:35 - 11:05 am **Use of Forensics Laboratories in Outbreaks**
Robert Bull, PhD, FBI Laboratory, Quantico, VA
- 11:05 - 12:30 pm **Session VI Roundtable/Panel—One Health Realities & Solutions**
Moderator Lonnie King, DVM, Ohio State University, Columbus, OH
Panelists: Mo Salman, PhD, DACVPM, Colorado State University, Fort Collins, CO; Kate Glynn, DVM, World Health Organization, Paris France; Laura H. Kahn, MD, Princeton University, Princeton, NJ; TBD
- 12:30 pm **Closing Comments & Adjourn**
Joe Kozlovac, MS, RBP, CBSP, United States Department of Agriculture, Agricultural Research Services, Beltsville, MD

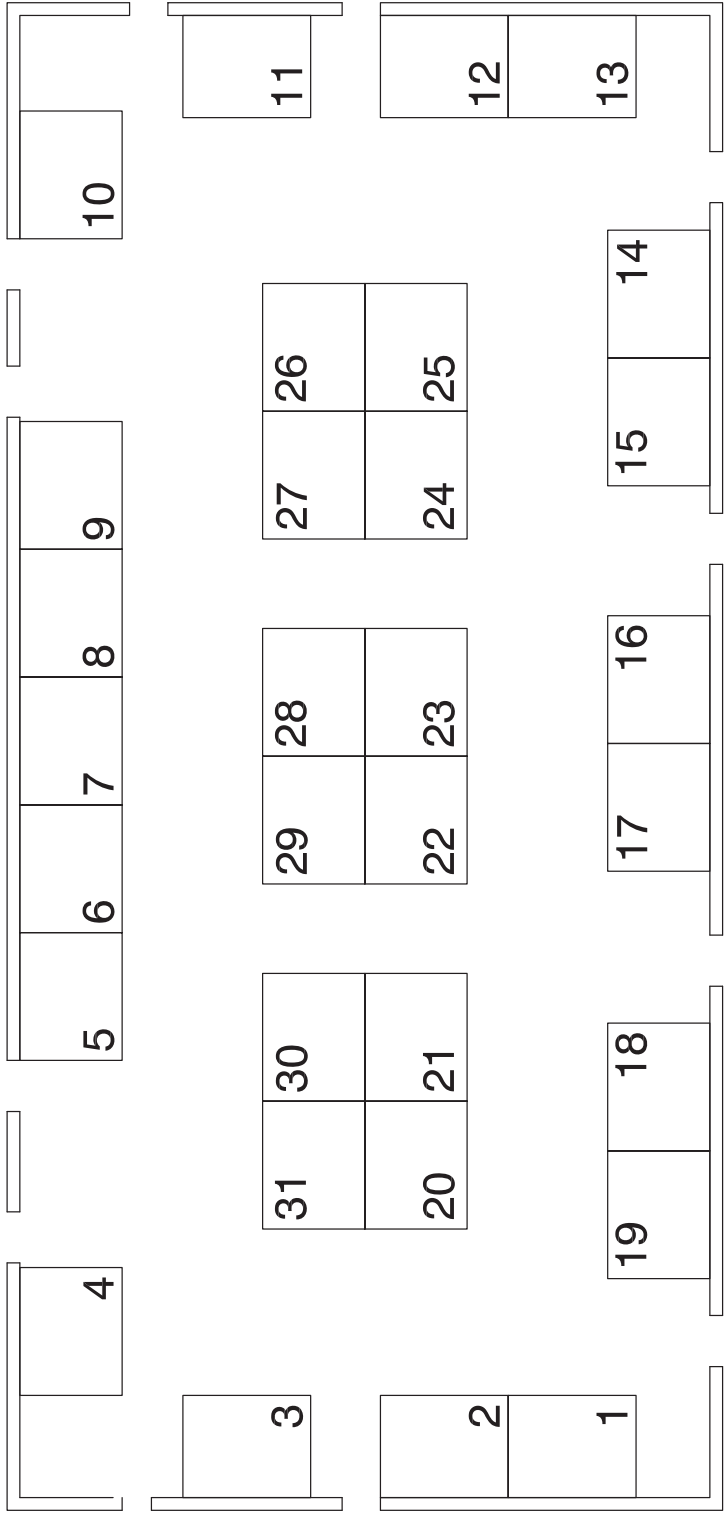
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Steering Committee Members

John Balog, RBP
Richard Baumann, PhD
David Bressler, CBSP
Brian Carter, PhD
Robert Ellis, PhD, CBSP
Eilyn Fabregas, RBP
Robert Hawley, PhD, RBP, CBSP
Robert Heckert, DVM, PhD, CBSP
Freeda Isaac, DVM
Joanne Jones-Meehan, PhD
Lonnie King, DVM

Joseph Kozlovac, RBP, CBSP
Timothy Mandrell, DVM
Shanna Nesby-O'Dell, DVM, MPH
Melanie Peterson
Scott Rusk, V MPM
Jeff Silverstein, PhD
Eileen Thacker, DVM, PhD
Timothy Trayer, DVM
James Welch
Diana Whipple, MS



ENTRANCE ENTRANCE

Inventory as of 05/17/2010

Dimension	Qty	SqFt	Rented	Available
8'x10'	31	2,480	0	31
Totals:		31	2,480	31

AMERICAN BIOLOGICAL SAFETY ASSOCIATION

MARRIOTT INNER HARBOR - GRAND BALLROOM
BALTIMORE, MD

05.28.2010

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Exhibitors List

Aquatic Habitats, Inc., Apopka, FL

Booth 28

The best environment outside of nature. Founded to meet the unique needs of the aquatic research community, Aquatic Habitats™ specializes in systems for live aquatic organisms, particularly zebrafish and *Xenopus*. We're ready to help with system engineering, project management and much more, ensuring the results you want. www.AquaticHabitats.com

Arcoplast, Inc., St. Peters, MO

Booth 3

New options in barrier construction for high containment facilities. Containment facilities using Arcoplast wall and ceiling systems erected with conventional steel stud construction are lightweight and meet BSL-1 through BSL-4 requirements including USDA, FDA, NIH, CDC, and NIAID construction design and surface finish requirements for good manufacturing practices. They can provide primary barrier for USDA ARS 242.1 BSL-3Ag applications. www.arcoplast.com

Bioquell, Inc., Horsham, PA

Booth 29

Bioquell, Inc. provides products/services with unique, residue-free hydrogen peroxide vapor (HPV) technology. This technology is used for the safe decontamination of, rooms, facilities, animal racks, safety cabinets, incubators, and other sensitive equipment. HPV is able to kill a wide range of spore/viral organisms such as MPV without material compatibility issues. www.bioquell.com

Bio-Response Solutions, Inc., Pittsboro, IN

Booth 9

Bio-Response Solutions produces class leading products including Effluent Decontamination Systems (EDS) of all types (there are 6) and Alkaline Hydrolysis Tissue Digestion systems for pharmaceutical, animal research, and biocontainment facilities. Tissue Digestion systems are available in multiple configurations including a new low cost laboratory digester and a new patent pending horizontal/tip configuration that promises to revolutionize application in facilities with limited head-space, possibly avoiding expensive building features or modifications. www.bioresponsesolutions.com

BioSAFE Engineering LLC, Brownsburg, IN

Booth 22

BioSAFE Engineering LLC is a U.S. manufacturer and world leader of biohazardous waste decontamination and disposal systems. Our patented WR² alkaline Hydrolysis technology is the environmentally-friendly, "green" alternative to incineration and 3rd party hazardous waste removal. www.biosafeengineering.com

Centers for Disease Control and Prevention (CDC), Office of Health & Safety (OHS), Atlanta, GA

Booth 12

CDC's Office of Health and Safety supports national and international partners. CDC's OSH: publishes laboratory biosafety guidelines and occupational health recommendations; delivers biosafety training and outreach; assists partners on biosafety, biosecurity, laboratory design, and related occupational health matters; and serves as WHO Collaborating Centre for Applied Biosafety and Training. www.cdc.gov/od/ohs

Certek, Durham, NC

Booth 10

CERTEK designs and builds modular laboratories that are custom configured to the customer's specific needs and with team effort provides a safe working environment for maximum efficiency and reliability. Modular laboratories can be delivered internationally and operational within 4 to 6 months after design approval. This method is quicker and costs less than conventional stick built methods. www.certekinc.com

Clordisys Solutions, Inc., Lebanon, NJ

Booth 25

Clordisys Solutions, Inc. provides a broad line of products to decontaminate rooms, isolators, pass-throughs, BSC's, HEPA housings and more utilizing chlorine dioxide gas, the safest and most effective method available. We also provide decontamination services on a one-time or routine basis for rooms, BSL suites, ductwork and entire facilities. www.clordisys.com

Conference of Research Workers in Animal Diseases (CRWAD), Ft. Collins, CO

Booth 5

The Biosafety and Biosecurity Training Course lectures and interactive activities are directed by more than 20 instructors covering topics on laboratory and large animal research and veterinary clinics (ABSL-2, 3 and 4; 2 days), applied laboratory biosafety (BSL-1, 2, 3; 2-½ days), and plant research and diagnostics (BSL-1, 2, 3; 2 days).

www.cvmb.colostate.edu/mip/crwad/BBTC.htm

Cornerstone Commissioning, Inc., Boxford, MA

Booth 18

Cornerstone Commissioning, Inc. is a Massachusetts-based commissioning service provider focused on biomedical and biocontainment laboratories, most of which have laboratory animal spaces. Our expertise is in the testing of mechanical, electrical, plumbing, and specialty systems and verification of building control system operation. The company was founded in 2001 to ensure facilities are functioning well before turnover to the owner. www.cxhvac.com

Dataworks Development, Inc., Mountlake Terrace, WA

Booth 27

Freezerworks Unlimited by Dataworks Development ensures your sample inventory management and tracking is safe, secure, and timely. Manage the movement of samples in and out of freezers according to lab-specific workflow requirements. Written to FDA guidelines, it offers user and group security and configurability with cryogenic-safe bar code labeling.

www.freezerworks.com

ESCO Technologies, Inc., Hatboro, PA

Booth 13

Since 1978 ESCO has emerged as a leader in the development of controlled environment, laboratory and cleanroom equipment solutions. Products sold include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow benches, PCR cabinets, animal workstations, isolators, downflow booths, airshowers, incubators, ovens, and more.

www.us.escoglobal.com

Flad Architects, Madison, WI

Booth 7

Flad serves the animal health and pharmaceutical industries through state-of-the-art scientific workplace design, including BSL-3, BSL-3Ag, and BSL-4 laboratories. As authorities on life science, laboratory research, and high containment, Flad's strategic planning, business development, and design expertise connects each client's facility with their operational processes, business goals, and bottom line.

www.flad.com

Flanders/CSC, Washington, NC

Booth 14

Flanders Corporation is the foremost supplier of sophisticated air filtration equipment to industries where purity is a priority. Founded in 1950, Flanders' products are used by leading names in the pharmaceutical, healthcare, biological and nuclear industries. Today, Flanders sets the standard for the control of nuclear, biological and chemical airborne hazards. www.Flanderscorp.com

Germfree Laboratories, Inc., Ormond Beach, FL

Booth 23

Germfree Laboratories is a recognized world leader in providing Class III Biological Safety Cabinets (BSC). We design, engineer, and manufacture "Turnkey" mobile and modular laboratories for biological (up to BSL-3) and chemical applications. Germfree's craftsmen specialize in the integration of analytical equipment into our Class III BSCs and complete laboratory systems. www.germfree.com

Global Biohazard Technologies, Inc., Midlothian, VA

Booth 6

Our Mission is to assist organizations in developing and improving their Biosafety and Biosecurity expertise. GBT is committed to providing state-of-the-art Biosafety Consultation to institutions and companies that are concerned about the biocontainment issues that they face with regard to design, construction, and operation of biocontainment facilities. Global Biohazard Technologies, Inc. is also committed to assisting biocontainment facility owners in assuring that their facilities are built in accordance with all applicable guidelines and regulations, and are operated in a manner consistent with the high quality that is expected of such facilities.

www.globalbiohazardtechnologies.com

Merrick & Company, Aurora, CO

Booth 2

Merrick & Company with over 50 years of proven success provides architecture, engineering, construction management, building/lab commissioning, and operational services for Life Science clients. Focusing on state-of-the-art laboratories and high containment facility design globally, Merrick provides turnkey solutions that work. www.merrick.com

National Biosafety & Biocontainment Training Program, Atlanta, GA

Booth 21

The NBBTP is a partnership between the Division of Occupational Health and Safety (DOHS) and the National Institute of Allergy and Infectious Diseases (NIAID) at the National Institutes of Health and includes 2-year post-doctorate and post-baccalaureate biosafety Fellowships, NBBTP Certificates, and Professional Development courses. www.nbbtp.org

NIH Office of Biotechnology Activities, Bethesda, MD

Booth 1

NIH Office of Biotechnology Activities staff will be available to answer questions about the oversight of recombinant DNA research and the requirements for Institutional Biosafety Committees (IBCs) under the *NIH Guidelines for Research Involving Recombinant DNA Molecules*. In addition, information will be available on dual use research in the life Sciences. Informative materials and handouts related to both recombinant DNA and dual use research will be available. www.oba.od.nih.gov

NuAire, Inc, Fernbrook, MN

Booth 20

Celebrating 40 Years of quality laboratory equipment, best in industry service, and expert knowledge. Biological Safety Cabinets, CO2 Incubators, Ultralow Freezers, Laminar Airflow Workstations, Animal Handling Equipment, Barrier Isolators, Polypropylene Fumes Hoods and Casework, and a variety of products and systems to serve the needs of the laboratory community. www.nuaire.com

Presray Corporation, Wassaic, NY

Booth 11

Presray Corporation has a long and distinguished history of designing, fabricating, testing, and supporting a complete line of high performance air pressure resistant (APR) doors, security/ballistic resistant doors, specialty windows, and wall protection systems. Our markets include high containment laboratories, nuclear power plants, clean room applications, and pharmaceutical facilities. www.Presray.com

Progressive Recovery, Inc., Dupo, IL

Booth 16

Progressive Recovery, Inc. is the global leader in engineering and manufacturing Biowaste/Effluent Decontamination Systems and Caustic Digester Units. PRI's systems represent the final boundary and sterilization treatment of either liquid and solid wastes before discharge to the environment. Quality equipment, manufacturing excellence and engineering support are recognized with PRI's name and history. www.pri-bio.com

Raven Labs, Omaha, NE

Booth 19

Raven Labs, a division of Mesa Laboratories, Inc., offers biological indicators (BIs) for sterilization monitoring. Raven offers a test kit designed for use with Chlorine Dioxide (ClO₂) in addition to its products for steam, EO, Dry Heat and other processes. Mesa now offers Raven Labs and SGM Biotech BIs. www.mesalabs.com

Saf-T-Pak, Inc., Glen Burnie, MD

Booth 24

Saf-T-Pak™ provides Shipping Class 6.2 Compliance Training; available via Internet and CD (now available in Spanish and French) as well as Public and Custom Private Onsite Seminar options. Saf-T-Pak also offers a comprehensive line of packaging solutions for temperature-controlled and ambient Category A, Category B, GMOs and Exempt Patient shipments. www.saftpak.com

Steris Corporation, Ellicot City, MD

Booth 4

STERIS Corporation is a leading provider of contamination control solutions for pharmaceutical, biotech, medical device, research and biocontainment facilities. To help improve your operational efficiencies, STERIS offers equipment, formulated cleaning chemistries, sterility assurance products, and consulting services to help you meet your surface and room decontamination needs. www.steris.com

Tec Services, Inc., New Oxford, PA

Booth 30

TEC Services was founded in 1994 and has since built a strong reputation in the controlled environment products, calibration, and service industry. TEC specializes in the production of aerosol photometers, aerosol generators, calibrations, as well as repair and service all within the field of HEPA filter testing and certification. www.tecservicesinc.com

Technical Safety Services, Inc., Berkeley, CA

Booth 31

Founded in 1970, TSS is the largest provider of cleanroom testing, certification, and laboratory equipment calibration services in the world. Headquartered in Berkeley, we've built our business by ensuring that each of our regional offices has the support and training necessary to maintain our exacting quality and service standards. www.techsafety.com

The CITI Program, University of Miami, Miami, FL

Booth 17

The Collaborative Institutional Training Initiative (CITI) offers customized web-based instruction in The Protection of Human Research Subjects, Good Clinical Practice, Health Information Privacy and Security, Animal Care and Usage, BioSafety and BioSecurity and the Responsible Conduct of Research. www.citiprogram.org

Tuttnauer, USA, Hauppauge, NY

Booth 8

The Tuttnauer line of steam sterilizers is tailored to meet the specific requirements of laboratories classified as BSL-3/4. Our biocontainment packages include cross contamination seals, effluent sterilization and a host of other options, designed for optimum isolation. Custom sizes and configurations are available, with chamber volumes ranging from 4 to over 300 cubic feet. www.tuttnauerusa.com

UTMB National Biocontainment Training Center,

Galveston, TX

Booth 26

The National Biocontainment Training Center prepares infectious disease scientists to work safely in high and maximum-containment environments. The NBTC offers parallel fellowship tracks for scientists and biocontainment engineers and The University of Texas Medical Branch Laboratory Biosafety Training Program provides specialized instruction in BSL-2 to BSL-4 environments. www.utmb.edu/biosafetytraining

WorkingBuildings, LLC, Atlanta, GA

Booth 15

WorkingBuildings is a leading provider of planning, construction and operations solutions for containment facilities. Our expertise has guided the commissioning of more than 70 laboratories, including BSL-3, BSL-3Ag and BSL-4 facilities. www.workingbuildings.com

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