



2004 ABSAs Conference Abstracts Information

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REVIEW COURSE FOR BIOSAFETY AND NATIONAL REGISTRY OF MICROBIOLOGISTS (NRM) EXAM IN BIOLOGICAL SAFETY MICROBIOLOGY

Mary Cipriano, RBP, CBSP; Marian Downing, CBSP; Richard Fink, CBSP; Glenn Funk, PhD, CBSP; Melina Kinsey, RBP, Linda Wolfe, RBP, CBSP

BIOSAFETY LEVEL 3: FACILITY DESIGN CONSIDERATIONS AND LABORATORY OPERATION

Robert Ellis, PhD, CBSP, Colorado State University; Paul Langevin, PEng, Merrick & Co.

CURRENT UNDERSTANDING AND ADVANCES IN MOLD ASSESSMENT, SAMPLING AND ANALYSIS

Chin Yang, PhD, P&K Microbiology

BASIC CELL BIOLOGY

Richard Giles, PhD, M.D. Anderson Cancer Center

BIOLOGICAL TOXINS: SCIENCE AND SAFETY
Joe Kozlovac, MS, RBP, CBSP, ARS Homeland Security Biological Safety Program; Robert J. Hawley, PhD, RBP, CBSP Midwest Research Institute

CRISIS COMMUNICATION

Louise S. Barden, PhD, Health Scientist, Centers for Disease Control and Prevention

REVIEW COURSE FOR BIOSAFETY AND NATIONAL REGISTRY OF MICROBIOLOGISTS (NRM) EXAM IN BIOLOGICAL SAFETY MICROBIOLOGY

No presenters listed.

BIOSAFETY LEVEL 3: FACILITY DESIGN CONSIDERATIONS AND LABORATORY OPERATIONS

No presenters listed.

ADVANCED BIOHAZARD RISK ASSESSMENT

Lynn Harding, MPH, CBSP, Biosafety Consultant; Diane O. Fleming, PhD, RBP, CBSP, Biosafety Consultant

BASIC VIROLOGY & VIRUS BASED GENE VECTORS

Patrick Condreay, PhD, Research Investigator, GlaxoSmithKline Discovery Research

TRAIN THE TRAINER: BIOSAFETY FOR SECURITY AND MUNICIPAL RESPONDERS
Tom Boyle, University of Pennsylvania and Brian Petuch, Merck Research Laboratories

PLANT BIOSAFETY IN PRACTICE

Dr. Benedictus J. Verduin, Biosafety Officer, Department Plant Sciences, Wageningen University (WU); Neil E. Hoffman, PhD, APHIS/USDA

AUDITING FOR SAFETY PROFESSIONALS

Richard Rebar, MS, RBP, CBSP, Manager Global Audits, GlaxoSmithKline

OCCUPATIONAL HEALTH SURVEILLANCE AND MONITORING IN BIOLOGICAL LABORATORIES

Gary R. Fujimoto, MD, Palo Alto Medical Foundation, Palo Alto, CA, Associate Professor of Medicine, Stanford University School of Medicine, Stanford, CA, Assistant Clinical Professor of Medicine, University of California, San Francisco School of Medicine, San Francisco, CA

THE TRANSPORT OF DIAGNOSTIC & INFECTIOUS SAMPLES BY AIR—SEMINAR ON THE CHANGES

Nicholas Mohr, Peter East Associates Ltd., London; Joyce Beerbower, President, COO, Safety Compliance Services, Inc.

BIOTERRORISM RESPONSE

Brian Petuch, MA, Merck and Thomas Boyle, MS, University of Pennsylvania

ANIMAL BIOSAFETY LEVEL 3 CONTAINMENT FACILITIES—DESIGN TO OPERATIONS

Barbara Fox Nellis, RBP, CBSP, Biological Safety Officer & Responsible Official, University of Florida; Maureen Long, PhD, DVM, Assistant Professor Large Animal Clinical Sciences, University of Florida; Kelly J. Flint, BS, LAT, Animal Care Services Coordinator for Safety & Compliance Supervisor, University of Florida

SHIPPING INFECTIOUS AND DIAGNOSTIC SPECIMENS

Eric Cook, Assistant Biosafety Officer, MIT

FUNDAMENTALS OF BIOSAFETY LEVEL 4 CONTAINMENT

David S. Bressler, MS, Centers for Disease Control and Prevention; Robert J. Hawley, PhD, RBP, CBSP, Midwest Research Institute

BASIC DISINFECTION/STERILIZATION/ DECONTAMINATION

Richard Fink, CBSP, Wyeth Biopharma; Glenn Funk, PhD, CBSP, Lawrence Livermore National Laboratories

EFFECTIVE BIOSAFETY COMMITTEES: EXPECTATIONS AND EXAMPLES

LouAnn Crawford Burnett, MS, CBSP, Vanderbilt University; Allan Shipp, MHA, NIH, Office of Biotechnology Activities; Barry Cohen, MPH, CBSP, Transkaryotic Therapies, Inc.

SELECT AGENT REGULATIONS: OVERVIEW AND GENERAL REQUIREMENTS

Lori Bane, Select Agent Program, CDC; James Blaine, Constella Health Sciences; Diane Martin, Constella Health Sciences; Charles Schable, Office of Terrorism Preparedness, CDC; Charles Brokoff, Select Agent Program, CDC; Lee Ann Thomas, APHIS; John Strovers, FBI; Ross Spears, Select Agent Program, CDC; Doug Brown, Department of Commerce; Ken Cremer, NIH

ADVANCED DISINFECTION/STERILIZATION/ DECONTAMINATION

Richard Fink, CBSP, Wyeth Biopharma; Glenn Funk, PhD, CBSP, Lawrence Livermore National Laboratories

WRAPPING UP THE MAD COW STORY

Paul W. Brown, MD, Bethesda, MD

ELIZABETH R. GRIFFIN RESEARCH FOUNDATION LECTURE

Dr. Julia Hilliard, National B Virus Resource Center

CASE REPORT: TRANSMISSION OF LYMPHOCYTIC CHORIOMENINGITIS VIRUS FROM LABORATORY MICE TO AN ANIMAL TECHNICIAN

Andrew Braun and Henry Warren, Harvard Medical School, Boston, MA

PERFORMANCE OF NEW BSC CONTROL SYSTEM IN BSL3 LABORATORY

Katsuaki Shinohara¹, Takao Ohkubo², Kazutoshi

Kogure², Yuji Yamanaka², Kazuhito Matsuzaki², Masayuki Uezono², Yuusuke Koba², Yoshikage Miura³, Katsumi Sekiguchi⁴, Hiroataka Takagi¹, Kazuyoshi Sugiyama¹ and Atsuo Kitabayashi²;
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NEW BSL-3 LABORATORY IN NIID JAPAN
Katsuaki Shinohara, Hiroataka Takagi, Kazuyoshi Sugiyama and Takeshi Kurata National Institute of Infectious Diseases Japan

MOBILE MODULE-TYPE BSL-3 LABORATORIES
Brian Kim, General Advisor, GCEM (Green Cross Engineering Maintenance Co. Ltd), Seoul, Korea; Cheon Kwon Yoo and Young Rhan Joo, Korea National Institute of Health (KNIH)

WHICH WAY DO YOU SWING?
Sandy Ellis, RA; Paul E. Langevin, P.Eng, Merrick & Co., Denver, CO

ELECTRONIC INVENTORY TOOL FOR BIOLOGICAL SELECT AGENT AND TOXINS
Dina M. Sassone, Los Alamos National Laboratory, Los Alamos, NM; David Saunders, Ex3, Inc. Tempe, AZ; Mark Kleinman, Ex3, Inc. Tempe, AZ; Raji Dasari Ex3, Inc. Tempe, AZ

DEVELOPMENT OF A USER'S GUIDE AND TRAINING MODULES FOR SELECTAGENT COMPLIANCE
Joanne Jones and Sherry L Henry, Occupational Health, Safety and Environment (OHSE), Centers for Disease Control and Prevention (CDC), Atlanta, GA and Division of Vector-Borne Infectious Diseases (DVBID), Centers for Disease Control and Prevention, Fort Collins, CO

STAPHYLOCOCCAL ENTEROTOXIN AS A BIOLOGICAL WEAPON: RECOGNITION, MANAGEMENT, AND SURVEILLANCE OF STAPHYLOCOCCAL ENTEROTOXIN
Ejem Ahanotu, Damaris Alvelo-Ceron, Tim Ravita,

Constella Group Inc., Constella Health Sciences, Statistics & Public Health Research, Atlanta, GA

SELECT AGENT RULE COMPARED WITH THE CLINICAL LABORATORY IMPROVEMENT AMENDMENTS: IMPACT ON REGULATED LABORATORIES
Edward E. Gaunt, Constella Group Inc., Constella Health Sciences, Statistics & Public Health Research, Durham, NC

EXPRESSED DIAGNOSTICS OF ANTIBODIES AND ANTIGEN OF EBOLA VIRUS
T. S. Chepurnova, N. I. Fedosova, I. N. Egoricheva, F. Elgh, A. A. Chepurnov, State Research Center of Virology and Biotechnology AVector, Koltsovo, Novosibirsk Region, Russia

SELECT AGENT REGISTRATION DATABASE
Sherry L. Henry and Joanne Jones Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO and Occupational Health, Safety and Environment, Centers for Disease Control and Prevention, Atlanta, GA

COMPARISON OF THE CANADIAN INDUSTRIAL SECURITY MANUAL AND THE UNITED STATES NATIONAL INDUSTRIAL SECURITY PROGRAM OPERATING MANUAL
Andrew Hammond, Constella Group Inc., Constella Health Sciences, Statistics & Public Health Research, Atlanta, GA

REVIEW OF INTERNATIONAL BIOSECURITY AND BIOTERRORISM LEGISLATION
Andrew Hammond, Constella Group Inc., Constella Health Sciences, Statistics & Public Health Research, Atlanta, GA

A DISCUSSION OF THE NATIONAL INDUSTRIAL SECURITY PROGRAM AND BIOSECURITY
Patrick Fenneran, Constella Group Inc., Constella Health Sciences, Statistics & Public Health Research, Atlanta, GA

SUSPICIOUS PACKAGE RECOGNITION
TRAINING FOR MAIL HANDLERS: A
CONTINUING NEED

Julie A. Johnson, Karin K. Schoen, Tru F. Twedt,
Alan D. White, Iowa State University, Ames, IA

REVIEW AND COMPARISON OF GERMICIDES
APPLIED TO LABORATORY WASTE
MANAGEMENT AND LABORATORY
DISINFECTION

Tim Ravita, Medhat Henein-Azer, Constella Group
Inc., Constella Health Sciences, Statistics & Public
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THE RATIONAL INVESTIGATION INTO
SAFETY AND CONTAINMENT AS APPLIED
TO THE LABORATORY ENVIRONMENT

Brian Satterfield, Constella Group Inc., Constella
Health Sciences, Statistics & Public Health
Research, Atlanta, GA

THE PREVENTION OF LABORATORY
ANIMAL ALLERGY

Jyl Burgener, GlaxoSmithKline, Environmental
Health & Safety Department, Research Triangle
Park, NC

BASICS BIOSAFETY TRAINING FOR NON-
BIOLOGICAL LABORATORY PERSONNEL

Lolly S. Robinson, Midwest Research Institute,
Kansas City, MO

USE OF MULTIPLE SOP STYLES TO INCREASE
PERSONNEL COMPLIANCE AND SAFETY
WITHIN A BSLII/BSLIII ANIMAL FACILITY

Andrea Mitchell, Jeri Ellis, Tim Ruddy; University of
Arizona Animal Care, Tucson, AZ

MANAGING POTENT COMPOUNDS SAFELY

Brenda E. Barry, Nanette E. Moss, Environmental
Health & Engineering, Inc., Newton, MA

LIQUID AND SOLID WASTE
DECONTAMINATION IN LABORATORIES

C. Ziegler and K. Bistrutz, Hemisphere Engineering,
U.S., Inc., Atlanta, GA

ESTABLISHING ACCEPTABLE PARAMETERS
FOR AUTOCLAVING BIOHAZARDOUS
WASTE

Joseph P. Carrier, Johns Hopkins University APL,
Laurel, MD

A PARADIGM SHIFT IN BIOTECHNOLOGY
FROM FROZEN TO CRYOGENIC

David Petreccia, MD, Infectious Diseases, St. Jude
Hospital, CA; Patrick Mullens, MD, Pathology Brea
Hospital, CA

REVIEW OF BENEFITS ASSOCIATED WITH
THE IMPLEMENTATION OF A QUALITY
ASSURANCE PLAN

Maria L. Velázquez, Tim Ravita, Constella Group
Inc., Constella Health Sciences, Statistics & Public
Health Research, Atlanta, GA

AEROSOL EXPOSURE SYSTEM FOR RABBITS:
APPLICATION TO M. TUBERCULOSIS
INFECTION

Liana Tsenova; Ryhor Harbacheuski; Evette Ellison;
Claudia Manca and Gilla Kaplan, Laboratory of
Mycobacterial Immunity and Pathogenesis, The
Public Health Research Institute, Newark, NJ

VERIFICATION OF COMPLETE
INACTIVATION OF HIGHLY INFECTIOUS
RESPIRATORY VIRUSES

Jill M. Bieker, Sandia National Laboratories,
Albuquerque, NM; Joe Anderson, Richard D.
Oberst, and Sanjay Kapil, Kansas State University,
Manhattan, KS

HARNESSING FLOW CYTOMETRY FOR THE
RAPID ENUMERATION AND VIABILITY
ASSESSMENT OF AIRBORNE BACTERIA

R. Thomas Leonard, University of Virginia,
Charlottesville, VA

VAPORIZED HYDROGEN PEROXIDE BASED
BIODECONTAMINATION OF A HIGH-
CONTAINMENT LABORATORY UNDER
SLIGHT NEGATIVE PRESSURE

Jay Krishnan, Greg Fey, Stefan Wagener, Canadian
Science Centre for Human and Animal Health,
Winnipeg, Manitoba, Canada

CHLORINE DIOXIDE GAS
DECONTAMINATION OF THE UNIVERSITY
OF PENNSYLVANIA'S GEORGE D. WIDENER
LARGE ANIMAL HOSPITAL INTENSIVE CARE
UNIT

Henry S. Luftman and Michael A. Regits, Micro-Clean, Inc., Bethlehem, PA; Paul Lorcheim and Mark A. Czarneski, ClordiSys Solutions Inc., Lebanon, NJ; Thomas Boyle, University of Pennsylvania, Philadelphia, PA; Helenb Aceto, Barbara Dallap and Donald Munro, University of Pennsylvania School of Veterinary Medicine New Bolton Center, Kennett Square, PA

CURRENT ISSUES & TRENDS IN BSE AND
OTHER PRIONS

Moderator: Barbara Fox Nellis, RBP, CBSP;
Participants: Dr. Paul Brown, NIH; Pierluigi Gambetti, Director of the National Prion Surveillance Center, Case Western University; Paul Gibbs, PhD, DVM, University of Florida; Bob Hillman, Texas Animal Health Commission; Dr. Donald Knowles, USDA, ARS; Donald O'Toole, PhD, FRC Path, Director, Wyoming State Veterinary Laboratory

BRIEF SUMMARY OF TOPIC: BEST
PRACTICES FOR HANDLING SUSPECT BSL-2
ANIMAL TSE DIAGNOSTIC SAMPLES IN
ANIMAL HEALTH LABORATORIES
Donald O'Toole, Wyoming State Veterinary
Laboratory, Laramie, WY

USDA TRAINING REQUIREMENTS FOR FIELD
RELEASE OF GENETICALLY MODIFIED
PLANTS PRODUCING PHARMACEUTICALS
AND INDUSTRIAL COMPOUNDS
Beryl J. Packer and Karin K. Shoen, Iowa State
University, Ames, IA

USE OF MULTIPLE SOP STYLES TO INCREASE
PERSONNEL COMPLIANCE AND SAFETY
WITHIN A BSLII/BSLIII ANIMAL FACILITY
Andrea Mitchell, Jeri Ellis, Tim Ruddy; University of
Arizona Animal Care, Tucson, AZ

PREPARING THE EXTERNAL EMERGENCY
RESPONDER FOR INSTITUTIONAL HAZARDS
Melina Kinsey, RBP, Midwest Research Institute
Palm Bay, Florida; Lolly Robinson, MBA, Midwest
Research Institute, Kansas City, MO

TB, BLOODBORNE PATHOGENS AND MORE
Melody Sands, Director, Office of Health
Enforcement, OSHA

THE MOLECULAR BIOLOGY OF HEPATITIS
B AND C VIRUSES
Robert E. Lanford, PhD, Department of Virology
and Immunology Southwest Foundation for
Biomedical Research, San Antonio, TX

MOLECULAR BIOLOGY OF ALPHA VIRUSES
AND ALPHA VIRUS-BASED EXPRESSION
OF VECTORS
Hans W. Heidner, PhD, University of Texas at San
Antonio, San Antonio, TX

EPA'S REGULATORY REQUIREMENTS FOR
BIOLOGICAL DECONTAMINANTS
Jeff Kempter, U.S. Environmental Protection
Agency, Washington, DC

THE GENERATION OF CHLOROFORM AS
A BY-PRODUCT OF DISINFECTION
Robert J. Hashimoto; Joseph Mooring II; Carol
Robinson; Sabrina Ossiander; and Debora Van der
Sluis, Genentech Inc., Environment Health and
Safety, South San Francisco, CA

COMPARISON OF SPORE STRIPS AND SELF-
CONTAINED BIOLOGICAL INDICATORS FOR
USE WITH FORMALDEHYDE
DECONTAMINATION
Betty KupsKay, Health Canada, Winnipeg,
Manitoba, Canada

MICROBIAL AIR SAMPLING AND
QUANTITATIVE RISK ASSESSMENT IN THE
LABORATORY
Allan M. Bennett and Simon R. Parks, Health
Protection Agency, Porton Down, Salisbury UK

THE TRUTH ABOUT ANTHRAX IN
AMES, IOWA

Julie A. Johnson, Tru F. Twedt, James A. Roth, Iowa
State University, Ames, IA

BREAKING NEW BIOSAFETY GROUND IN
A COMPREHENSIVE BIOCONTAINMENT
FACILITY

Rebecca Ryan, Boston University Medical Center,
Boston, MA; Ross Ferries, Smith Carter Architects,
Atlanta, GA, Jon Crane, CUH2A Architects,
Atlanta, GA

BIOSAFETY FOR LARGE-SCALE
CONTAINMENT LEVEL 1 OPERATIONS
USING RECOMBINANT DNA TECHNOLOGY
NO EMERGING HAZARDS

Richard Fink, CBSP, Wyeth BioPharma, Andover,
USA; Dr. Enda Moran, Wyeth Medica Ireland,
Dublin, Rep. of Ireland

CHANGES IN THE REGULATIONS FOR THE
CLASSIFICATION AND TRANSPORTATION
OF CLINICAL AND DIAGNOSTIC SAMPLES

Nicholas Mohr, CEO; Peter East Associates, Ltd.,
London, UK; Joyce Beerbower, President, Safety &
Compliance Services Inc., Kulsville, PA

DESIGN, CONSTRUCTION AND
CONTAINMENT OF AN ARTHROPOD
CONTAINMENT LEVEL 3 INSECTARY AND
QUARANTINE: THE GOOD, THE BAD,
THE UGLY

John S. Colladay, PhD, University of California,
Riverside, Riverside CA

AEROSOL COLLECTION MEDIA: EFFECT
OF ANTIFOAMS ON CELL VIABILITY AND
VIRUS INFECTIVITY

J. R. Hermann¹; R.B. Evans¹; S. Hoff²; J.
Zimmerman¹; ¹College of Veterinary Medicine,
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Ames, IA

BIOSAFETY: A GLOBAL CHALLENGE

Dr. Nicoletta Previsani, Project Leader Biosafety,
Department of Communicable Disease Surveillance
and Response, World Health Organization

LESSONS LEARNED FROM RECENT SARS
LAB-ACQUIRED INFECTIONS

Jonathan Richmond, PhD, RBP

VAPORIZED HYDROGEN PEROXIDE (VHP®)
DECONTAMINATION STRATEGIES FOR
BUILDINGS ANTHRAX CASE STUDIES

Gerald E. McDonnell, PhD; Iain F. McVey;
Anthony W. Dallmier, PhD; and Peter A. Burke,
PhD, STERIS Corporation, Mentor, OH

BIOLOGICAL SAFETY CABINET
DECONTAMINATION: A NOVEL CHLORINE
DIOXIDE METHOD

Deborah Wilson; Murray Cohen; National Institutes
of Health, Bethesda, MD; Thomas E. McWhorter,
CDG Research Corp., Bethlehem, PA

VAPOR PHASE DECONTAMINATION OF
A BSL-3 LABORATORY

Yu-Rong Chu, Environmental Health &
Engineering, Inc., Newton, MA, Donald Redpath,
Acambis, Inc., Cambridge, MA

PARAFORMALDEHYDE DECONTAMINATION
OF LABORATORY SPACES

James T. Wagner, Controlled Environment
Consulting, Bethlehem, PA; Michael A. Regits and
Henry S. Luftman, PhD, Micro-Clean, Inc.,
Bethlehem, PA

CONCEPTUAL FRAMEWORK FOR
BIOSECURITY LEVELS

Jennifer Gaudio and Reynolds M. Salerno, Sandia
National Laboratories, Albuquerque, NM

BIOSECURITY IN A BIOSAFETY
ENVIRONMENT

Susan B. Rivera, Jennifer Gaudio, and Reynolds
M. Salerno, Sandia National Laboratories,
Albuquerque, NM

FEDERAL BIOSECURITY GUIDELINES FOR
LABORATORIES AND RESEARCH FACILITIES

Ed Pritchett, PE, Hemisphere Engineering, U.S.,
Inc., Atlanta, GA

BIOSURETY IN CDC/COC LABORATORY
RESPONSE NETWORK CONFIRMATORY
LABORATORIES IN US ARMY MEDICAL
TREATMENT FACILITIES

Bill Nauschuetz, PhD, LTC Richard Walker, COL
Noel Webster, US Army Medical Command, Fort
Sam Houston, TX

RISK ASSESSMENT ACROSS THE
BIOSAFETY COMMUNITY

Paul J. Huntly, DNV, Aberdeen UK; Dr. Stephen
McAdam, DNV Research, Hovik, Norway; Dr.
Stefan Wagener, Canadian Science Centre for
Human and Animal Health, Winnipeg, Canada

BIORISK MANAGEMENT SYSTEM
ASSESSMENT B EXPERIENCES FROM BOTH
SIDES OF THE FENCE

Paul J. Huntly, DNV, Aberdeen UK; Dr Stephen
McAdam, DNV Research, Hovik, Norway; Dr.
Stefan Wagener, Canadian Science Centre for
Human and Animal Health, Winnipeg, Canada; Dr.
Ingegerd Kallings, Swedish Institute for Infectious
Disease Control, Solna, Sweden

SAFETY CONSIDERATIONS FOR OPEN
LABORATORY DESIGN: OPERATIONAL
EXPERIENCE AND LESSONS LEARNED

Seth Meisler, MBT Architecture, San Francisco, CA,
David Silberman, Stanford University, Stanford, CA

LEGIONELLA COUNT REDUCTION IN
COOLING TOWERS

Kenyon D. Yoder, Bayer Corporation, Pittsburgh, PA

BIOLOGICAL SAFETY COMPETENCY LEVELS:
A MODEL FOR CAREER DEVELOPMENT AND
TALENT MANAGEMENT

Penny H. Holeman, MPH, RBP, CBSP, Johnson
and Johnson, Raritan, NJ; Kevin Turner, MS,
Johnson & Johnson, Spring House, PA

IMPLEMENTATION OF A MEDICAL
SURVEILLANCE PROGRAM FOR BSL
AND BSL-2 EMPLOYEES

Debra C. Sharpe, MPH, Southern Research
Institute, Birmingham, AL

SECURITY 101 FOR BIOSAFETY
PROFESSIONALS AN INTERACTIVE
WORKSHOP

Robert Emery, University of Texas, Houston, TX

PRIVACY, ACADEMIC FREEDOM AND THE
PUBLIC'S RIGHT TO KNOW: TRAINING AND
EDUCATION WORKSHOP

Moderator: Ben Fontes, Yale University, New
Haven, CT, Participants: David Silberman, Stanford
University School of Medicine, Allan Shipp, NIH
Office of Biotechnology Activities

ISSUES IN THE DESIGN OF A
COMPREHENSIVE BIOCONTAINMENT
FACILITY

Ross Ferries, Smith Carter Architects, Atlanta, GA,
Jon Crane, CUH2A Architects, Atlanta, GA and
Rebecca Ryan, Boston University, Boston, MA

IMPACT OF ADVANCED RESEARCH
TECHNOLOGIES FOR BIODEFENSE
RESEARCH ON BIOCONTAINMENT FACILITY
DESIGN

M. Randy Kray, Smith Carter, Atlanta, GA, Jon
Crane, CUH2A, Atlanta, GA

MOBILE LABORATORIES-CONCEPT DESIGN
AND IMPLEMENTATION

Monica Heyl, U.S. Army RDECOM, ECBC,
Aberdeen, MD; Stan Duarte, Morehouse School of
Medicine, Atlanta, GA; Charles Henry, U.S. Army
RDECOM, ECBC, Aberdeen, MD; Keith Landy,
Purified Microenvironments, Ormond Beach, FL

CONCEPT TO REALITY CONSTRUCTION
AND COMMISSIONING OF A STAND ALONE
MODULAR A BSL-3 FACILITY AT THE
UNIVERSITY OF FLORIDA

Kelly J. Flint and Barbara Fox Nellis, SM, RBP,
CBSP; University of Florida, Gainesville, FL

DESIGNING FOR ANIMAL SPACES IN HIGH
CONTAINMENT LEVEL 3 AG AND 4

Harry G. Wiber, PE, Hemisphere Engineering,
Edmonton, Alberta, Canada; Christopher Kiley, PE,
Hemisphere Engineering, U.S., Inc., Atlanta, GA

RECOMMISSIONING OF EXISTING
BIOSAFETY LABORATORIES

Marshall Mormyluk, Hemisphere Engineering,
Edmonton, Alberta, Canada; Joby Evans, PE,
Hemisphere Engineering, U.S., Inc., Atlanta, GA

BL3 LAB SPACE AND A RENOVATED
ANIMAL FACILITY COMMISSIONING

Stan Duarte, Morehouse School of Medicine,
Atlanta, GA

BSL3/4 LABORATORY SECONDARY
CONTAINMENT DESIGNS

Paul E. Langevin, PEng; James (Sandy) Ellis, RA,
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HVAC MANAGEMENT: TO LEAK OR NOT
TO LEAK

Paul E. Langevin, PEng; James (Sandy) Ellis, RA,
Merrick & Co.

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