



Technical Sessions

Biosafety

Assessing the Need for Increased Biosafety Enhancements when Working with Influenza Viruses

Janet Peterson, University of Maryland-College Park

Several strains of influenza virus present a greater risk to human and animal health. This presentation will discuss the need for facility and work practice enhancements to basic BSL3 containment when working with avian, human, and swine influenza viruses.

The Institutional Review of Biological Research

Robert Hashimoto, University of California-Berkeley

In 2009, the National Institutes of Health proposed changes to the "Guidelines for Use of Recombinant DNA Molecules." These changes were designed to update the guidelines with regard to the use of synthetic genomics and experiments that involve oligonucleotide sequencing. Other changes included but were not limited to changes in the size of the viral genome that would require institutional review and approval. This presentation is designed to discuss the proposed changes and the effects on an institution receiving National Institute of Health funding.

A Practical Guide for Select Agent Responsible Officials

Hallie Heaney, University of Maryland-College Park

At universities conducting research with select agents, much time and energy is required to ensure compliance with changing regulations. Frequently, the responsible official for an Select Agent Program is a director who may feel disconnected from the details and the operation of this program at their facility. This presentation will provide an overview of the Select Agent Program regulations, with a focus on key points for responsible officials.

Risk Assessment Based Standard Operating Procedures for Work in High Containment

Melissa Morland, University of Maryland-Baltimore

With the increase of research at A/BSL-3, risk assessment-based standard operating procedures are required and will be used by regulators during inspections to evaluate compliance. This session will examine the risk assessment process at the University of Maryland-Baltimore that includes job safety and failure analyses prior to development and acceptance of standard operating procedures.

Shipping and Exporting Research Materials

Kevin Charbonneau, Yale University

Due to increased regulatory scrutiny in recent years, Yale University EHS has developed a Research Material Shipping and Export program. This program was developed to efficiently manage a variety of shipments from Yale. This enhanced program includes online request forms, a database for tracking information, online training programs, an export controls review process, and a fully trained EHS shipping team. This presentation will review the planning and implementation process as well as the pitfalls encountered along the way.

Emergency Management

The Development and Application of a Large University Emergency Operations Center

Allen Clark, Arizona State University

As one of the largest universities in the United States, Arizona State University hosts a number of large events, including a commencement ceremony featuring President Barack Obama as the keynote speaker. This session will examine all aspects of the preparation of the Emergency Operations Center, including design considerations, management, and special National Institute of Management Systems training for all Emergency Operations Center participants, which functioned as a command post.

Flash Flood at the University of Louisville

Dennis Sullivan, University of Louisville

On Tuesday August 4, 2009, the National Weather Service had forecast occasional showers, but by 9:30 a.m. the University of Louisville was facing a crisis, receiving almost seven inches of rain. This presentation will discuss the emergency operation phase of the flood and the subsequent recovery efforts. Participants will learn of the difficulties involved in this operation and will be able to take away knowledge that may assist them in response to a similar major event.

H1N1 Response and Lessons Learned

Bill VanSchalkwyk, Massachusetts Institute of Technology

Peter Schneider, University of Texas-Austin

Implementing H1N1 response has been a high priority in the college and university sector, a likely precedent for many other scenarios initiating a campus-wide response. As a part of this, the diverse roles of EHS organizations at campuses across the country must be considered. This panel will report on the EHS roles and responsibilities for H1N1 or other public health emergencies. From this, we will suggest capabilities and tasks for which EHS organizations should be prepared to execute when faced with a public health emergency.

Post-Disaster Building and Laboratory Damage Assessment

Steve Goldfarb, University of Southern California

Immediately following a major disaster, it is imperative to have the ability to quickly assess the damage to buildings. The University of Southern California has developed an efficient and well-organized plan to quickly assess buildings for damage, stabilize hazards, and render facilities safe to prevent further harm. In this session, attendees will learn how the university trained and organized teams to address more than 250 university-owned buildings as well as how laboratories are assessed using a collaborative approach and how assessments are communicated to senior staff in the Emergency Operations Center.

Teamwork for Integrated Emergency Management

James Wright, The University of Texas–Dallas

This session will have an emphasis on the importance of multi-disciplinary planning and teamwork, including organizing and motivating institutional teams and risk assessments, understanding planning strategies and tools, and responding effectively when an emergency occurs.

Texas Football: EHS Behind-the-Scenes

Irezama Anderson, The University of Texas–Austin

The University of Texas–Austin is home to the nationally ranked Longhorns football team. Each year, home games at Texas Memorial Stadium draw more than 100,000 spectators. The EHS office at the university has a team of 5–6 staff assigned to each game prepared to respond to a variety of incidents, inspect food vendors, and monitor for chemical, radioactive, and biological threats. This presentation describes the role of EHS at these huge events.

Uniting with the “Dark Side:” Making the Most of Public-Private Partnerships

George Nunez, George Washington University

Private sector versus public sector. Consultant versus practitioner. Is one really better than the other? Can both sides have the same mission at heart? The presenter will share his candid view on public sector-private sector partnerships, discussing his successes working with the private sector through his university's award-winning Neighborhood Planning Committee concept. He will also share insider secrets and strategies on using the private sector to your utmost advantage, no contract required.

Environmental

EPA's Academic Laboratory Rule (Subpart K)

Jessica Biegelson, EPA

Kristin Fitzgerald, EPA

The EPA has finalized the Academic Laboratory rule to help improve the environmental performance of teaching and research laboratories owned by eligible academic entities. This rule provides increased regulatory flexibility, while enhancing safe management of hazardous waste. This session will provide an overview of the major provisions of the Final Academic Laboratories Rule by comparing the provisions of the rule to the satellite accumulation area hazardous waste regulations. By comparing the two sets of regulations, it will be easier for colleges and universities to understand what would change for their operations under the new rule.

EPA's Academic Laboratory Rule (Subpart K): Container Labeling and Notification

Jessica Biegelson, EPA

Kristin Fitzgerald, EPA

This session will provide an opportunity to discuss how to convert existing hazardous waste labels to unwanted materials labels for Subpart K with minimum impact. In addition, this session will cover how to notify to opt into the new rule. The EPA has finalized the Academic Laboratory rule to help improve the environmental performance of teaching and research laboratories owned by eligible academic entities. This rule provides increased regulatory flexibility, while enhancing safe management of hazardous waste.

Storm Water Management on Campuses

Andy Phelan, University of Minnesota

The University of Minnesota–Twin Cities is comprised of an agricultural St. Paul Campus and a highly urbanized Minneapolis Campus. This session will examine the different ways to deal with storm water runoff based on the campus setting and how to inform the community about storm water management while doing so.

Fire Safety

The Campus Right-to-Know Annual Fire Safety Reporting and FEMA's “University Housing Fires” Report

Jim Gibbs, Arizona State University

Members of the panel in this session are responsible for gathering and formulating the data for their respective institution, providing 2008 calendar year fire safety statistics, description of policies, and general fire and life safety information per rules of the Campus Fire Safety Right-to-Know regulations. The topic of discussion at this session will include panel members' experiences of how they accomplished their 2008 calendar year reporting, any complications or lessons learned, and a comparison and/or perceived reporting conflicts with the FEMA's “University Housing Fires” Report.

Creating the Resident Assistant Fire Academy at a Small College

John Soucy, Gordon College

Campus fire safety awareness, is a major concern. How to accomplish this with limited resources is critical. Gordon College has conducted a Resident Assistant (RA) Fire Academy during the week in August when they are trained. The academy consists of four segments: fire safety awareness, dorm room inspection, fire extinguisher use, and the Firefighters Muster (which is conducted by the local fire department). This session will share the essential elements of the program, offer tips concerning some of the lessons weve learned, and address how it was accomplished with limited resources.

Evolution of a Fire Safety Program

Roger Wright, West Virginia University

The fire safety program has evolved significantly at West Virginia University EHS. This session will show attendees how today's fire safety program at West Virginia University came to be, including the development of the “Up in Smoke” program that revolved around fire safety training. Come hear about this program, which received the 2006 CSHEMA “Perks for Peers” award.

Residence Hall Fire Safety:

A Live Fire Side-By-Side Burn Demonstration

Bryan Makinen, Eastern Kentucky University

On August 11, 2009, Eastern Kentucky University in conjunction with the Richmond Fire and Rescue Department conducted a safety presentation which incorporated a live fire side-by-side burn for its residence hall coordinators and residence hall assistants prior to the start of the semester. The purpose of this demonstration was to increase fire and life safety awareness and increase compliance with monthly residence hall inspections. This session will offer an overview of this event.

Using GIS to Track and Monitor Fire Alarms and other Health and Safety Incidents

Gail Fellows, West Chester University of Pennsylvania

The use of data analysis and geographical information systems (GIS) can increase the ability to monitor a campus safety and management program. West Chester University of Pennsylvania's EHS Department uses tools to map and trend fire alarms and fire incidents on campus. In this session, the presenter will share how using these devices helps the department identify the buildings with increased fire alarm rates, determine if an alarm is caused by mechanical issue or human behavior, and resolve issues surrounding false alarms.

General Safety

Accident Investigations: Improving An Overlooked Element of Effective Safety Programs

Dennis Hof, University of Texas System

Thousands of accidents occur on campuses around the United States every year. Whether caused by the failure of equipment, environmental hazards, or unsafe behavior, accident investigations are an important and frequently overlooked element of any campus safety and health program. In this session, fundamentals of accident investigation will be reviewed, such as writing accident reports, establishing evidence gathering protocols, developing a chain of evidence, and finding professional resources.

Developing and Implementing a Cost-Effective Online Training Program

Otu Inyang, University of Houston

The University of Houston EHS department was faced with the challenge of increasing training needs as a result of the university's tremendous growth, without commensurate increase in staffing resources. In anticipation of the Tier One initiative of the university, the EHS department embarked upon the development of online safety training to meet the challenges and align the department with the university's goal. Successes and lessons learned during the development of the training modules as well as technological and administrative challenges will be presented at this session.

Fall Protection on Campus Roofs

Steven Deck, University of Maryland-Baltimore

This session will cover the basics of fall protection for employees and contractors working on campus roofs. Questions that will be explored include: when does OSHA's construction or general industry fall protection standard apply; how are they different; what is proposed in the new OSHA general industry fall protection standard; how does the new American National Standards Institute standard on fall protection impact what we do; and when should we use a fall restraint system, install guard rails, or use a warning line system? Participants will also be provided an overview of the key elements of an effective written fall protection program, information on how to develop a fall protection training program, and strategies for conducting a risk based fall protection audit.

Game Day at Tiger Stadium

Mike Durham, Louisiana State University

Planning, preparation, and operations during a home game at Tiger Stadium is a complex operation. Tiger Stadium holds more than 92,000 fans, and traditional tailgating activities make the campus attendance nearly 140,000 fans and friends. Motor homes cram the campus and nearby facilities. This presentation will cover the responsibilities and the involvement of EHS personnel for game day, including monitoring motor home lots for carbon monoxide, fire alarm system supervision, and a emergency evacuation and crowd control program.

Managing Custodial Safety Using a Standardized Cleaning System

Jennifer Root, University of Texas-Austin

This session describes how custodial services at the University of Texas-Austin uses a standardized cleaning system to evaluate work tasks, identify safety challenges, and manage risks. Processes are in place to address workplace safety hazards such as encountering animals, blood borne pathogens, and asbestos as well as cleaning laboratories and working at night. The cleaning system also endeavors to minimize environmental impact by using environmentally friendly cleaning products and minimizing landfill waste. Since starting this program, the university has seen a steady decrease in frequency and severity of workplace injuries.

Managing Wildlife on Campus

Carin Peterson, University of Texas-Austin

Managing wildlife can be a challenge, and at some institutions, the responsibility falls on the EHS office. This session will describe the Animal Make Safe program at the University of Texas-Austin, which started in 2002 as a response to increasing campus wildlife incidents. Today, the program handles approximately 200 incidents a year. The presentation will include a short video which follows EHS as it responds to wildlife incident calls.

Slip Trip and Fall Injury Prevention: A Purdue University Case Study

Steve Gauger, Purdue University

An injury trend analysis of the past 10 years of Purdue workers compensation data reveals slips, trips, and falls are the leading cause of employee injury with a \$6.7 million claim cost. In 2009, Purdue set a priority goal of reducing the risk of this type of injury. This session will be a case study on the comprehensive approach the university took to achieve this goal and first year data will be offered.

A Survey of Environmental Safety Issues at Medical Clinics

Susanne Savely, Baylor College of Medicine

Safety walkthroughs or inspections were performed for 20 clinics located both onsite and offsite from a major medical center clinic. A comprehensive checklist with 90 questions was used to evaluate compliance with institutional, local, state, and federal guidelines and regulations regarding emergency preparedness, infection control, hazardous waste management, patient safety, fire safety and general safety. This session will share the findings of these walkthroughs, including the difference between onsite and offsite clinics' knowledge of infection control.

Hazardous Materials

Chemical Facility Anti-Terrorism Standard: Managing Compliance Utilizing a Web-Based Procurement Tool

Keith Duval, University of Pittsburgh

Maintaining compliance with the U.S. Department of Homeland Security's Chemical Facility Anti-Terrorism Standard is a challenge. Facilities which possess Chemicals of Interest are required to maintain an accurate inventory of these chemicals to demonstrate regulatory compliance. The University of Pittsburgh EHS Department, along with the university's Purchasing Department, has developed a novel approach to maintaining a real-time, accurate inventory of Chemicals of Interest on campus—a web-based procurement tool which links university buyers to contracted suppliers. This presentation will focus on the modifications of the procurement system that enables EHS to review Chemical of Interest orders and maintain an accurate inventory. Challenges, obstacles, and lessons learned will be examined.

Controlling Formaldehyde Exposures to Faculty and Staff during Medical Anatomy Dissection

Frank Pokrywka, University of Pittsburgh

Evaporation of embalming fluids from cadavers can produce elevated formaldehyde levels in the breathing zone of students and instructors performing dissections. During the past seven years, the University of Pittsburgh EHS Department has performed extensive air monitoring during our medical anatomy course to evaluate engineering and work practice control effectiveness at reducing formaldehyde exposures. This presentation will examine the engineering and work practice controls implemented to achieve this goal.

Hazard Material Awareness for Campus Security Personnel

Dennis Hof, University of Texas System

From chemistry and research labs to medical facilities and machine shops, first responders on a college campus could face potential chemical or biological hazards every time they respond to a call. As first responders, campus security and police need to have an understanding of the chemical and biological hazards they could encounter. This course will examine information needed by security personnel to raise their awareness of issues found on college campuses.

Keeping the World Safe:

Physical Security Strategies for Hazardous Materials

Maureen Kotlas, Harvard University

Universities, colleges, and hospitals use and store a variety of biological, chemical, and radioactive materials. The United States government has demonstrated concern that some of these materials may be attractive targets for terrorist attacks either through theft, sabotage, or release and has expanded the regulatory focus to address security. Institutions may also have concerns for criminal theft, vandalism, or other security threats. The physical security system is a key component of a comprehensive security plan. This presentation will provide EHS professionals with a fundamental understanding of physical security in the built environment, including design concepts, building hardening, and building security technologies.

Mercury Exposures in University Herbarium Collections

Brent Webber, University of Kentucky

Several universities retain herbarium collections, consisting of dried and treated plant specimens on backing paper. Mercuric chloride was formerly used in the preservation of specimens, though it is highly toxic and capable of sublimation. While widespread use of mercuric chloride for herbarium preservation in the United States ceased in the early 1960s, several older mercury-poisoned specimens still exist in many herbarium collections. This session will examine the findings at two large public universities that evaluated the presence of mercury in the air and on surfaces in the herbaria.

Laboratory Safety

Anesthetic Gas Use Safety Program

John Lemanski, Arizona State University

Arizona State University recently developed an Anesthetic Gas Use Safety Program to educate researchers about exposure potential to chemicals used as anesthetics. Waste anesthetic gases, toxicity, recommended exposure limits, and methods to reduce exposures during generation of these anesthetics are described. An overview of the web-based training program will be presented.

Chemical Safety Levels: An Idea Who's Time Has Come?

Ralph Stuart, University of Vermont

Chemical safety levels are an approach to better understanding the hazards associated with laboratory use of hazardous chemicals and how they affect building operations, emergency planning, and training requirements. The presentation will discuss this concept, demonstrate a risk assessment tool for better understanding the appropriate chemical safety levels for a chemical operation, and describe potential uses of this information at the institutional level.

Development of a Web-Based Laboratory Inspection Tool

Jerry Gordon, Cornell University

In 2008–09, staff members from the Cornell University EHS Research Safety Group worked with IT support to re-engineer the laboratory inspection program and develop a web-based laboratory inspection tool to inspect Cornell's more than 6,500 research spaces. The tool is comprised of an online checklist and management program, an administrative program to manage corrective actions and produce summary reports, and a user program to empower campus safety representatives to identify and manage corrective actions within their areas of responsibility. This presentation will primarily be a demonstration of all parts of the web-based inspection tool.

Lessons Learned from Implementation of Laboratory Self-Inspection and Methods Used to Facilitate Safety Culture

Kalpna Rengarajan, Emory University

This presentation will describe what steps the Emory University EHS Office adopted to improve safety culture among the researchers. The methods include laboratory self inspection by researchers, casual walkthroughs by EHS personnel, and end-of-year EHS validation inspection. These steps have led to improvements in laboratory training and lab inspection processes as well as an interactive environment between the laboratory researchers and the EHS professionals.

Make-Safe Considerations for VIP Visit to a Laboratory

William VanSchalkwyk, Massachusetts Institute of Technology

If a VIP visits your lab, what should you do? Who needs to be involved? What safety aspects need to be managed by the university? These issues and many more were managed in real time when President Barack Obama visited MIT laboratories in October 2009. This session will describe precautions taken to preclude an accident and to lower hazard potentials, considerations institutions should have when contemplating such a visit, the interruption caused by a high-profile visit, and the expectations of personnel operating labs to endure such a disruption.

Managing Multiple Campuses

Sarah McAbee, George Mason University

Managing the environmental health and safety of laboratories and field locations across multiple campuses provides unique challenges that must be overcome to provide quality safety and compliance oversight at George Mason University. This presentation examines the strategies employed at the university to overcome challenges presented by multiple campuses and field sites and highlights issues such as training, hazardous waste management, the need for centralized record keeping, managing remote teams, medical surveillance, and providing coverage for customer service and incident response.

Review of Hydrogen Safety in the Research Laboratory

Markus Schaufele, Northwestern University

The issue of selecting the proper hydrogen safety management methods in the research laboratory is sometimes a perplexing one. Architects, engineers, EHS professionals, and research laboratory users may have different perspectives on the applicability of safety controls. This session will look at literature and standards review of the best practice controls of hydrogen in research laboratories and clarify the basic safety hazards of hydrogen and metal hydrides and the currently available hydrogen sensor technology.

Management

CSHEMA Benchmarking Survey:

Development and Recommended Use

Rob Ott, Arizona State University

The CSHEMA Benchmarking Survey is a useful tool for comparing an institution's funding and staffing levels to its peers. Topics discussed in this session will include: trends based on an analysis of the survey's metrics applied since its inception, overview of the key metrics used in the 2010 survey, examples of how universities can apply metrics from the survey based on the experience of Arizona State University in the budgeting process, and the activities of the CSHEMA Research and Survey Committee related to future developments for the survey tool.

EPA Peer Audit

Patty Olinger, Emory University

During April 2009, Emory University completed the EPA Peer Audit Program. The auditors visited five different locations and inspected 20 percent of these locations, including research labs, arts and theater, clinical and hospital spaces, mechanical spaces, janitorial closets, and shops. There were three types of findings, categorized as EPA Regulated, State Regulated, or OSHA/Best Practices. This presentation will share the EHS Office's experience of pre-audit preparation and post-audit steps taken to correct the findings cited by the auditors using a management systems approach.

Integrated Workflow Management for Institutional Review Committees

James Jaeger, University of Maryland–Baltimore

Investigators and committee members have long desired integration of the review processes of the institutional committees that address human use, animal use, biosafety, and radiation safety. The University of Maryland–Baltimore implemented a database that preserves committee independence, integrates workflow, and eliminates wasted effort for investigators. This session will examine this process, which has been in use for more than a year. The application features custom committee forms, conditional branching, context sensitive help, document and version control, annotated history logs, reports, and approval cross checks.

Integrating Occupational Health Clinic Services within the EHS Structure

Yong Kim, Stanford University

As campus EHS groups seek new angles for loss reduction/prevention, one area not often tapped is that of occupational health care management. Over the past several years at Stanford University, collaboration between EHS, risk management, and other key stakeholders has resulted in the shift of occupational health services from contracted off-site units to an on-campus EHS managed process. This recent change has presented unique opportunities for EHS program. In this session, the presenter will briefly cover Stanford EHS efforts, challenges met, and current/ future opportunities relating to endeavors in occupational health care management.

A Linguistic Analysis: The Unraveling of a Safety Program

Grandon Goertz, University of New Mexico

This presentation will briefly review individual addictive behavior and how individuals perform in various situations and roles. If there is an addictive personality in an institution, these behaviors can be transferred to the institution and individuals working in this environment take several on various roles. Information will be presented that describes changes in behavior, acceptance and reinforcement of unacceptable behaviors, and the creation of a hostile workplace. Using linguistic methods, including critical discourse analysis, it will be shown that certain discourse structures are indicators of “institutional alcoholism.”

Occupational Health Surveillance

Wayne Thomann, Duke University Medical Center

There is a critical need for ongoing occupational surveillance in the healthcare industry that is easily accessible and user-friendly, provides timely feedback on exposures, risks, and outcomes, and accommodate the myriad of known and newly emerging hazards present in healthcare facilities. The National Healthcare Safety Network is an internet-based surveillance system established in 2005 by the CDC Division of Healthcare Quality Promotion that includes both patient safety and HCP health and safety modules. This session will discuss this system and how it can help healthcare facilities to better monitor the health of their employees, identify and address problems, improve prevention, and meet record-keeping requirements.

Regulatory Compliance and Training Assessment Tools:

Bruce Backus, Washington University in St. Louis

Matt Finucane, University of Pennsylvania

To help university faculty and staff better understand their many regulatory compliance and training requirements (including those beyond EHS), the University of Pennsylvania and Washington University in St. Louis have developed online tools to guide their staff through the process.

Reorganization of an EHS Office to Meet Demands

Patrick Wolf, University of Maryland–Baltimore

As the government continues to churn out new and more in-depth regulations, the research engine continues to fund additional research, and public universities continue to realize budget cuts, EHS offices are faced with the continued challenge of doing more with less. In order to meet the demands, the EHS office at the University of Maryland–Baltimore revamped its organizational structure to establish an effective and efficient organization capable of meeting the everyday needs of the university community. This presentation addresses the major changes in the organizational structure, the outcome of the implementation, and recommendations.

Targeted Methods for Determining the Level of Client Satisfaction with Your EHS Program

Robert Emery, University of Texas–Houston

Successful service industries constantly solicit client feedback to gauge how their organization is performing and determine how the client feels about the relationship. University EHS programs are service intensive operations, but unfortunately feedback is typically obtained only from complaints, training course evaluations, accreditation surveys, and passive surveys. This presentation will discuss the value of obtaining client feedback in a more proactive, targeted, and systematic way and review the results of a series of surveys that have been performed at the University of Texas Health Science Center at Houston.

Tracking Safety and Health Services

Craig Lefevre, West Virginia University

West Virginia University EHS developed an activities database using Microsoft Access to track safety and health services provided to campus clients. The daily entries include data such as who is the client, what service was provided, how much time was spent, the name of the project, and a note section used describe the tasks. The EHS Activities Database can be used for many applications. This session will discuss the benefits of this program.

Who’s Filling Your Chair? Changes in the EHS Field

Courtney Kerr, Eastern Virginia Medical School

EHS work is constantly evolving as new regulations and priorities develop, but now the career field itself is changing. This presentation will discuss the future trends in the EHS job market, the aging of the current staff, consolidation of safety programs, reduced interest in the traditional EHS job market, increased focus on green jobs, and the apparent reduction in education/training and lack of awareness to the field. The future of EHS is happening now!

Other

Analysis and Discussion of the Hazards and Risks of Live Performance, and the Related Training and Education of Students

Bill Reynolds, Yale School of Drama/Yale Repertory Theatre

Theater performance and training students in theater production present many hazards and risks not encountered in other academic pursuits. This session will review many common hazards and risks and discuss how these can be identified, managed, and/or mitigated as well as ideas for establishing and documenting safety and health training.

Dirty Sock Syndrome: An EHS Case Study

Denise Daggett, The Scripps Research Institute

Over the course of several years, employees reported musty, locker room-like odors in two research-oriented laboratory buildings. An industrial hygiene evaluation was undertaken to characterize the problem. Direct reading instruments and air sampling revealed no conclusive data to help identify the cause of the odor. A literature search revealed a condition seen in air handler systems known as “dirty sock syndrome.” Utilizing swab sampling and analysis, bacterial contamination was identified as the likely source of the odors. This session will examine the findings and the difficulties encountered in trying to remedy the situation.

Strategic Planning for a University Environmental Health and Safety Program

Pete Reinhart, Yale University

At large colleges and universities, it is common to create a department or office that combines institutional environmental health and safety responsibilities and support services. As these organizations develop and mature, it is important to strategically plan their future to best meet the institution’s needs. This presentation will describe the strategic planning process recently completed by the Yale Office of EHS, including a review of the department’s history, new mission statement, and a five-year plan.

When the DEA comes knocking ...

Janice Dodge, Florida State University

The Drug Enforcement Administration has increased its enforcement of controlled substance regulations in research arenas over a number of years, and research use of controlled substances is undergoing scrutiny that was not typical 10–15 years ago. At Florida State University, EHS was asked to develop a program to provide guidance to researchers and bring them in compliance with DEA requirements. This presentation describes the approach used at this university to provide assistance to researchers and ensure that they operate in accordance with federal and state regulations.

Radiation Safety

A Case Study of a Response to a P-32 Spill

Peter Ashbrook, University of Missouri

In November 2009, University of Missouri EHS received a call from a researcher about a contamination incident involving P-32. Although only 10 micro curies were involved, contamination was found in several buildings. This presentation will review how the incident developed, how EHS responded and dealt with the media, and the after action report. It is hoped that this case study will be of assistance in helping others prepare for response to radiation contamination incidents.

Going Digital: Modernizing Radiation Safety for X-Ray Producing Machines

Deborah Hodefi, University of Maryland–Baltimore

Radiation safety programs that cover radiation-producing machine use at a university hospital present many challenges to the safety professional. Digital radiography, flat panel fluoroscopy, multi-detector CT, and CT fluoro are rapidly becoming the norm. Regulations particular to these technologies are sparse and systems vary widely between vendors. The focus of this session is building a program that adapts to changing technology, providing quality assurance that goes beyond regulatory requirements.

Space City Thunder: An Irradiator Counterterrorism Tabletop Exercise

Susanne Safely, Baylor College of Medicine

The National Nuclear Security Administration/Global Threat Reduction Initiative, part of the U.S. Department of Energy, provided Baylor College of Medicine with irradiator security upgrades and a three-day Global Threat Reduction Initiative irradiator security training at the Y-12 National Security Complex. In addition to the security upgrades and training, the National Nuclear Security Administration (NNSA) and the Federal Bureau of Investigation (FBI) held a table-top irradiator counterterrorism exercise entitled Space City Thunder at BCM on Sept. 3, 2009. This session will look at the preparations needed for such an exercise and the results.

Risk Management

Academic Continuity and Resilience Planning

Mike Mastrangelo, University of Texas System

Higher education institutions face new and evolving threats that require adaptive strategies. In continuity efforts, many use frameworks of business continuity planning that may overlook plans for their prime missions of teaching and research. Continuity is enabled by technology, but goes beyond this to include the expectation that learning will continue despite adversity. Recommendations will be offered on strategies such as collaborative agreements among institutions to specifically address academic continuity, the use of shared services such as disaster recovery sites, the shared use of tissue storage sites and vivaria for important research projects, telecommunications, and collaborative-wide contracts with disaster remediation companies.

Building the Framework for Total Cost of Risk

Paul Pousson, University of Texas System

During these turbulent economic times, institutions of higher education are facing challenges that include closer scrutiny of costs and expectation of cost containment. With this ever-increasing focus on budgets and fiscal responsibility, developing an understanding of the costs that drive risk management and EHS programs has emerged as an essential discipline. Attendees in this session will gain a foundational understanding of the core principles and components of total cost of risk and the bridge that exists between risk management and EHS.

Campus Violence Prevention and Case Management

David Rainer, North Carolina State University

Many campuses are moving toward an enterprise risk management approach to oversee EHS, insurance, public safety, and related programs. At North Carolina State University, work place violence prevention and management falls under EHS. This presentation will explore how and why the institution developed its integrated program and provide a case study of a campus violence incident including actions and response. Examples of collaboration both within the university and with outside resources throughout the process will be included as well as information on the Campus Violence Prevention Program.

Photo Documentation for Loss Prevention and Property Conservation

Patrick Durbin, The University of Texas System

Providing photo documentation for insurance purposes can be an invaluable tool in many circumstances. In addition to simply helping with an insurance claim, pictures can document existing conditions prior to or after a loss, serve to document nearby buildings and landscape conditions prior to breaking ground on a new construction project, and even be part of the inventory for an extensive art collection. This presentation will present various ways to use photo documentation for loss prevention and property conservation purposes as well as highlight a project where this was used to document conditions after a loss.

Small Colleges

Campus Safety and Security in an Urban Community: Is Technology the Key?

Bernard Chapple, Edward Waters College

Edward Waters College is a small, private, urban, historically black college that offers quality baccalaureate degree programs. The college is nestled in a disadvantaged neighborhood that can hinder learning due to concerns about safety. In an effort to mitigate these concerns, the college endorses the use of state-of-the-art technology to watch the campus activities with surveillance cameras and works very closely with the local law enforcement to speak to the students about gang activity and the need to be vigilant in the community. This session will discuss these and other efforts made to keep the campus community safe.

Global Harmonization and Its Effects on EHS

Kristine Rossmiller, Drake University

This presentation will discuss OSHA's changes in the rules of HAZCOM to Global Harmonization. The new Global Harmonization rules will be compared with the current HAZCOM Standard and changes will be emphasized. The significance of the rule change from OSHA will be discussed. Offices should know what to be prepared for in the change and how big of a change this is. The major impacts will be analyzed and the summary of the rule will be presented.

Preparing a H1N1 Pandemic Plan and Implementing the Plan at a Small School

Kristine Rossmiller, Drake University

This presentation will discuss the formation of Drake University's H1N1 Pandemic plan and the implementation the plan, including the selection of a planning committee, the planning assumptions, various scenarios, and the revisions. Further, this presentation will address the implementation of the various stages, what triggered the changes of stage, how Drake University tracked illness on campus, and the problems encountered.

Small College Priority Planning to Maximize Scarce Resources

Kent Clawson, Tennessee Technological University

How institutions determine the level of EHS professionals that are required to provide adequate services is unique for each institution. Priority planning can assist in addressing these challenges as tasks and programs are assessed from a standpoint of personnel protection, institutional priorities, and regulatory mandates. Efforts to gain the financial and political support necessary to execute EHS functions requires that the professional be prepared to build a case beyond government mandates. This presentation will share experiences developing these priorities, building the business case, and developing systems to allow scarce resources to be maximized in a small college environment.

A Survey and Ways to Survive in a Small EHS Office

Kristine Rossmiller, Drake University

This presentation will discuss the results of an expanded survey that was sent to small college EHS offices. The information presented will help persons in small EHS offices identify opportunities for collaboration with other small schools. It will also identify common problems encountered by a small EHS office and offer solutions. Additionally, attendees will learn about a small college EHS toolkit that is being developed.

Sustainability

The EHS and Sustainability Approach to Biodiesel Processing

Niamh Kelly, Massachusetts Institute of Technology

A Massachusetts Institute of Technology student group interested in alternative fuels started a club and secured funding to set up a biodiesel processor on campus. This venture raised several health and safety concerns—as flammable liquids and corrosive materials are used within the process—as well as operational questions regarding production and use of the fuel. This presentation will describe the role of the EHS department with this student group and other departments within the institute, the lessons learned, time allotted to the project, and a progress report of the project four years later.

Do the Rot Thing: Compost Happens at Davidson College

Chris Healey, Davidson College

Compost is a mixture of organic substances, like food and yard waste, that decomposes aerobically to form a nutrient-rich soil amendment. Davidson College's dining hall creates more than 350 pounds of food waste per day, which previously went directly into the garbage. In April 2009, Davidson installed a commercial composter that turns food and yard waste into a soil amendment for the campus organic herb and vegetable gardens and other campus landscaping projects. This presentation will include a video of the entire process and a discussion of the economics of the project.

Making the Case for Climate Action: A Practical Approach Using Energy Assessments

Robert Neimeier, O'Brien & Gere

Greenhouse gas regulation poses a fundamental challenge to the way that campuses use energy and resources. As regulatory agencies pursue strategies to reduce the impacts on climate change, some type of emissions cap appears to be inevitable. The implications to the bottom line operations of colleges and universities are huge. However, a mitigation plan, founded on objective, quantitative operating data, will help manage competing priorities for environmental compliance and financial performance. This applies to building operations, which utilize 80 percent of the non-mobile source energy supplies in the country. Case studies will be presented to help define this process.

Surplus Chemical Programs in North American Colleges and Universities

Miram Weil, University of Massachusetts-Lowell

A surplus chemical sharing program is a system to maintain an inventory of unused reagent chemicals which can be given or shared with other researchers or other laboratories. This keeps surplus materials from being unnecessarily discarded and going into the waste stream. This will evaluate the factors that determine the success of such programs and the barriers to instituting successful surplus sharing programs, the usefulness of such a program, and whether such a program can lower the resistance to using used materials for lab experiments.

Sustainability and Safety: Inclusive Decision Making on Energy-Saving Initiatives

Michael Hanna, University of Michigan-Ann Arbor

Although the University of Michigan has been proactive in energy management for more than 20 years, recent initiatives to significantly reduce the energy footprint of flagship research buildings and individual laboratories has led to concerns for both EHS professionals and those tasked with achieving those energy reduction goals. This session will explore the university's history of collaboration on decisions affecting indoor environmental quality and design of systems to manage hazardous research operations.

Waste Minimization through Solvent Recycling

John Kelsey, Clean Harbors, Inc.

The largest volume of hazardous waste at almost any campus is solvents. Currently, most campuses segregate their solvent waste into either one or two waste streams from all their laboratories on campus. This has enabled a significant cost savings for disposal through the years. With an upstream segregation model, there is an ability to recycle these items, minimizing the volume of hazardous waste shipped off site. Clean Harbors is utilizing our own facilities to recycle these materials in lab pack and drum quantities. This presentation will focus on the regulatory, financial, and operational results of this program.

Technology

New Age EHS Communications

Todd Houts, University of Missouri

There are many tools available that utilize the internet to simplify the creation, delivery, and management of information. This presentation will provide an overview of Facebook, RSS feeds, podcasts, wikis, blogs, and Twitter, as well as possible applications of these products and tools for EHS communications.