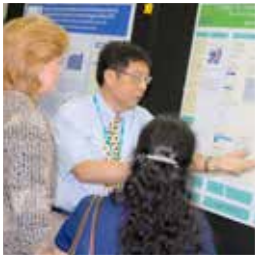
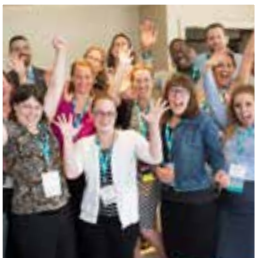
2016 APHL® ANNUAL MEETING

and tenth government environmental laboratory conference

June 6–9, 2016
Albuquerque, NM
Albuquerque Convention Center

Preliminary Program





Join your colleagues and other public health laboratory partners at the 2016 APHL Annual Meeting and Tenth Government Environmental Laboratory Conference.

Learn more about laboratory issues relative to environmental health, emerging infectious diseases, emergency preparedness, informatics, food safety, newborn screening and global health and earn CEUs.

Explore new ways to manage the laboratory in a complex public health and ever evolving healthcare system, and new laboratory research projects in our poster sessions.

Network with colleagues, including lab directors from state, county, city and local public health laboratories and from government and agricultural laboratories, senior staff in those laboratories, federal and private laboratory personnel, and anyone interested in laboratory science. Registration is open to all!

Contribute to discussions and dialogue at sessions, breakouts, roundtables and APHL's member assembly.

Visit 60+ exhibitors and win prizes! See the newest in laboratory technology, test kits, supplies, services and construction.

Celebrate the accomplishments of colleagues and others involved in public health at our Annual Awards Breakfast and Ceremony.

Meeting Location

The 2016 APHL Annual Meeting and Tenth Government Environmental Laboratory Conference will be held in downtown Albuquerque at the Albuquerque Convention Center. It is across the street from the headquarters hotel, the Hyatt Regency Albuquerque. Both are located within easy walking distance of numerous restaurants and shops.

Photo credit: MarbleStreetStudio.com

Photo credit: Robert Reck

Sessions

This year APHL solicited session proposals from its standing committees and the general membership, which resulted in many excellent proposals. To assist you in determining the general area of interest, we have given each session a letter symbol which corresponds with the topic that it represents. This guide is listed below.

- **C** Communications
- **EH** Environmental Health
- **ELS** Environmental Laboratory Science
- **FS** Food Safety
- **GH** Global Health
- **I** Informatics
- **ID** Infectious Disease
- **KM** Knowledge Management
- **LL** Local Laboratory Council
- **NBS** Newborn Screening & Genetics in Public Health
- **PHPR** Public Health Preparedness & Response
- **PO** Policy
- **QS** Quality Systems
- **W** Workforce Development

Registration

Conference Registration Fee: $525/member, $650/Non-Member, $150/Student
Pre-Conference Workshop Registration Fee: $95
Payment may be made by credit card or check.

Advance registration through APHL is required; registration is currently open. Go to the conference webpage at www.aphl.org/AM to register. If you have any questions or problems, please contact Terry Reamer at 240.485.2776 or terry.reamer@aphl.org.

Hotel Accommodations

The 2016 APHL Annual Meeting and Tenth Government Environmental Laboratory Conference will be held at the Albuquerque Convention Center in downtown Albuquerque, NM. The headquarters hotel is the Hyatt Regency Albuquerque Hotel which is across from the convention center. They are located within easy walking distance of numerous restaurants and shops.

The conference room rate is $149.00 (plus tax) per night for a single or double. There are a very limited number of rooms at the federal per diem rate. Reservations may be made by calling 888.421.1442 or 505.842.1234. Be sure to mention you are attending the "APHL Annual Meeting" to receive this rate. You may also reserve online. Check

Visit These Exhibitors! (as of March 17, 2016)

A2LA
Abbott Informatics
Abbott Laboratories
ABSA International
Aperiomics, Inc.
Applied Maths, Inc.
Art's Way Scientific, Inc.
BioFire Diagnostics
BD Diagnostics
bioMerieux, Inc.
Bio-Rad Laboratories
Biotage
Bruker Corporation
BtB Software, Inc.
Cepheid
Chembio Diagnostic Systems, Inc.
ChemWare, LLC
ClorDiSys Solutions, Inc.
EUROIMMUN US
Fujirebio US
Genial Compliance System/ Rainbow Scientific
GenMark DX
Germfree Laboratories
HDR Architecture, Inc.
Healthpac Computer Systems, Inc.
High-Purity Standards, Inc.
Hologic
Horizon Technologies
Illumina, Inc.
InBios International, Inc.
LabWare Inc.
Luminex Corporation
Magellan Diagnostics
MediaLab, Inc.
National Jewish Health
Orchard Software Corporation
PerkinElmer
Promium LLC
Psyche Systems Corporation
Puritan Medical Products Company
Qualtrax, Inc.
Quantabio
QIAGEN
Roche Diagnostics
SCIEX
STACS DNA
Streck
Thermo Fisher Scientific
Waters
WorkingBuildings
Worldwide Diagnostics

Contact information for these exhibitors and further details on the Annual Meeting may be found on the main conference website – www.aphl.org/AM

the website for links. This rate is valid until May 6, 2016 or until the block is filled. This block may fill up quickly so be sure to make your reservation early. These rates are available three days before and after the meeting based on availability. One night's deposit is due when making a reservation but is refundable providing your cancellation is made more than 24 hours before check-in. There is a fee for early departure.

Hyatt Regency Albuquerque Hotel, 333 Tijeras NW, Albuquerque, NM 87102, 505.842.1234, www.albuquerque.hyatt.com

Continuing Education Credits Available

APHL is an approved provider of continuing education programs in the clinical laboratory sciences through the American Society of Clinical Laboratory Science (ASCLS) P.A.C.E.® program. Attendees have the opportunity to earn up to 14.0 contact hours by attending the entire conference. Attendance rosters must be signed in each attended session that credit is requested for and the P.A.C.E.® certificate must be signed and certified by APHL staff at the registration desk at the end of your time at the conference.

APHL is an approved provider of Certified in Public Health (CPH) Recertification Credits through the National Board of Public Health Examiners (NBPHE). Attendees have the opportunity to earn up to 10 hours of credit by attending the entire conference. APHL will not issue certificates of attendance.

Thank You to These Sponsors for Their Support!

General Conference Support

Abbott
A Promise for Life

Tuesday Morning Coffee and Snacks

BIO-RAD

Awards Breakfast

HOLOGIC®
The Science of Sure

Hotel Key Cards

General Conference Support

PerkinElmer®
For the Better

Welcome Reception

Mobile App

Roche

Sponsorship and exhibiting opportunities are still available. For more information, contact Lori Richardson-Parr (lori.richardson-parr@aphl.org or 240.485.2792).

Enhance Your Experience With the Conference Mobile App

Available in May 2016 at no cost on iPhone, iPad and Android phones and tablets.

- Access all the detailed information on sessions, posters, sponsors, exhibitors and speakers before the meeting and onsite.
- Connect with the conference whether you are attending or not, before or during the conference.
- Navigate the hotel floor plans and Albuquerque with nearby restaurant listings and mapping.
- Personalize your experience by tagging sessions, exhibitors, city destinations, and creating exportable notes.
- Receive alerts, reminders or changes about the conference on site in real time.
- Follow the APHL Blog daily conference summary and other social media from within the app.

Special Events

Pre-conference Workshops
Monday, June 6, 8:00 am – 11:30 am

Register separately for these workshops

Welcome Reception
Monday, June 6, 5:30 pm – 7:00 pm

Sponsored by Roche Diagnostics

Industry Workshops
Tuesday, June 7, 8:00 am – 8:45 am

Connect with your industry partners and learn of new technologies and services at these educational workshops.

Dr. Katherine Kelley Distinguished Lecture
Tuesday, June 7, 11:00 am – 12:00 pm

The Magic of Oz – Oz Pearlman, Mentalist & Magician

Member Assembly
Tuesday, June 7, 4:00 pm – 5:00 pm

Networking Reception
Tuesday, June 7, 5:00 pm – 6:00 pm

Awards Ceremony and Breakfast
Wednesday, June 8, 9:00 am – 10:30 am

Celebrate your colleagues' achievements.

Sponsored by Hologic

Exhibit Hall Raffle
Wednesday, June 8, 1:30 pm – 2:00 pm

Visit all the exhibitors between Monday and Wednesday for your chance to win a prize such as an airline ticket, gift cards or cash.

Optional Tour of the New Mexico Public Health Laboratory
Thursday, June 9, 1:00 pm – 3:00 pm

APHL Experience

Connect with APHL staff and discover more about APHL: come visit with us during breaks as we demonstrate new tools and programs created for you! Open throughout the conference with scheduled demo times.

Some of the previous demonstrations include:

- APHL Informatics Message Services (AIMS) Cloud Monitoring and Scalable Laboratory Solutions
- www.thatssick.org Website Launch
- Updated MicrobeNet
- Informatics Self-Assessment Tool and Data Visualization
- APHL Survey Updates
- Biomonitoring Capabilities List
- L-SIP Program
- PHSLD Database
- APHL Webinars
- Newborn Screening and Genetics Experience
- Public Health Laboratory Competencies

Consent to Use Photographic Images

Registration and attendance at or participation in APHL Meetings and other activities constitutes an agreement by the registrant to APHL's use and distribution (both now and in the future) of the registrant's or attendee's image or voice, without compensation, in photographs, videotapes, electronic reproductions and audiotapes of such events and activities.

AGENDA OF EVENTS

SUNDAY, JUNE 5, 2016

4:00 pm – 7:00 pm

Registration

NE Exhibit Hall Prefunction

MONDAY, JUNE 6, 2016

7:00 am – 6:00 pm

Registration

NE Exhibit Hall Prefunction

8:00 am – 11:30 am

Pre-Conference Workshops (separate registration required)

LEAN-ing into the Future: Hands-on Practice with LEAN Tools W

Ruidoso/Pecos

(588-826-16 – 3.0 contact hours for this session)

It can be challenging for today's public health laboratories to maintain quality improvement. During this workshop, participants will see how the flexibility and scalability of LEAN can be used as a platform for continuous improvement for a laboratory. Participants will engage in the use of tools, such as Huddle Meetings, Primary Visual Display Boards, and Value Stream Mapping. Participants will interact with colleagues who have led their laboratories in successfully adopting LEAN methodology. Participants will each receive a flash drive of bonus material to learn more about the benefits and challenges behind this fun and effective continuous improvement approach.

At the conclusion of this session, the participant will be able to:

- Discuss the ways in which Lean is flexible and scalable
- Use Value Stream Mapping to shed light on the best process improvement opportunities in their own laboratory
- Describe key elements behind the successful application of any Lean tool and identify key points at which implementation can derail

Moderator: **Catherine Johnson,** MA, MT(ASCP), National Center for Public Health Laboratory Leadership, Association of Public Health Laboratories

- **Denise Lopez**, MS, PHM II, Tulare County, CA Public Health Laboratory
- **Jill J. Power**, MS, M(ASCP), CMQ/OE(ASQ), New Hampshire Public Health Laboratories
- **Jyl Madlem**, MS, MT(AMT), Indiana Public Health Protection and Laboratory Services

Next Generation Sequencing: From Concept to Reality at Public Health Laboratories ID FS

San Miguel

(588-827-16 – 3.0 contact hours for this session)

This session is designed to provide members with information about the utility of NGS including quality assessment, data analysis tools, how to perform NGS efficiently in public health labs, and the utility of external partnerships for NGS.

At the conclusion of this session, the participant will be able to:

- Identify methods to measure sequence quality and validation of next generation sequencing (NGS) methods
- Describe NGS tools to perform analysis of NGS data
- Identify methods to ensure efficient and timely performance of NGS in public health laboratories
- Discuss ways to collaborate with external partners to improve the utility of NGS

Moderators: **Dave Boxrud,** MS, Minnesota Department of Health,
Jennifer Adams, Association of Public Health Laboratories

Quality Assurance and Validation of Next-Generation Sequencing
Amy Gargis, PhD, Centers for Disease Control and Prevention

Introduction to NGS Analysis Tools Including NCBI K-mer Trees, CLC Genomics Workbench, BioNumerics 7.5, and Other Tools
Heather Carleton, PhD, MPH, Centers for Disease Control and Prevention

How to Efficiently Perform WGS in your Laboratory, Performing WGS on Non-PulseNet Pathogens to Increase Efficiency/Timeliness, Communication of WGS Data to Epidemiologists
Patrick Van Roey, PhD, Wadsworth Center, New York State Department of Health

How to Collaborate for Efficiencies, Bioinformatics, WGS, How to Build Pipelines – Do We Need Them in the Future? Round table discussion featuring:

Peter Shult, PhD, Wisconsin State Laboratory of Hygiene

Kim Musser, PhD, Wadsworth Center, New York State Department of Health

Dave Boxrud, MS, Minnesota Department of Health

William Klimke, National Institutes of Health

Biosafety and Biosecurity: The Era of Risk Assessments and Outreach PHPR

Mesilla

(588-828-16 – 3.0 contact hours for this session)

Biosafety Officials in Public Health Laboratories are key positions in our national laboratory system. This workshop will discuss how recently published biosafety competencies can be used for laboratory professionals. During the case study discussion, risk assessment models will be explored. Biosafety training strategies targeting sentinel clinical laboratories will be discussed and two state public health laboratory outreach models will be highlighted.

At the conclusion of this session, the participant will be able to:

- Discuss how biosafety competencies can be used for the Biosafety Official in your laboratory
- Explain how risk assessments can be used in the public health and clinical laboratories
- Compare outreach models to sentinel clinical laboratories from two public health laboratories

Moderator: **Andrew Cannons,** PhD, HCLD(ABB), Florida Bureau of Public Health Laboratories - Tampa

Biosafety Competencies in Action: Biosafety Officers/Biosafety Professionals/ Lab Directors or Designee Recruiting for New Positions

Leah Gillis, MS, PhD, HCLD(ABB), Florida Bureau of Public Health Laboratories – Miami

Risk Assessments

Overview of Risk Assessments and Case Studies/Scenarios Based

Reynolds Salerno, PhD, Centers for Disease Control and Prevention

Jennifer Gaudioso, PhD, Sandia National Laboratories

Risk Assessment for Public Health Laboratories

Michael Pentella, PhD, D(ABMM), Massachusetts State Public Health Laboratory

Outreach Models to Sentinel Clinical Laboratories

The Iowa Model for Outreach to Sentinel Clinical Partners

Wanda Reiter-Kintz, PhD, State Hygienic Laboratory at the University of Iowa

The Texas Model for Outreach to Sentinel Clinical Partners

Grace Kubin, PhD, Texas Department of State Health Services

11:30 am – 1:30 pm

Lunch on your own

1:30 pm – 3:30 pm

Opening Session

1:30 pm – 2:00 pm

Welcome to Albuquerque

Main Ballroom East

Moderators: Judith Lovchik, PhD, D(ABMM), APHL President
A. Christian Whelen, PhD, APHL President-Elect and Planning Committee Chair

- **Lixia Liu**, PhD, MP(ASCP), D(ABMM), Director, New Mexico Scientific Laboratory Division
- **Retta Ward**, MPH, New Mexico Cabinet Secretary of Health
- **Scott Becker**, MS, Executive Director, Association of Public Health Laboratories

2:00 pm – 3:30 pm

Plenary Session

The Continuum of Response from Ebola to Zika – Resiliency in Public Health Laboratories GH PHPR ID

Main Ballroom East

(588-800-16, 1.5 contact hours for this session)

This session will focus on the global response to emerging threats such as Ebola Virus Disease and Zika Virus Outbreak. Speakers will address initiatives to rebuild the laboratory system post Ebola in Sierra Leone and specific actions to mount an effective response to Zika virus in the United States.

At the conclusion of this session, the participant will be able to:

- Describe the unique challenges facing Sierra Leone post Ebola
- Discuss the role of the Laboratory Response Network in deploying assays for emerging threats
- Understand the laboratory response to Ebola and Zika viruses

Moderator: Joanne Andreadis, PhD, Centers for Disease Control and Prevention

- **Isatta Wurie**, PhD, Association of Public Health Laboratories Consultant
- **Julie Villanueva**, PhD, Centers for Disease Control and Prevention

3:30 pm – 4:00 pm

Break in the Exhibit Hall

NE Exhibit Hall

3:30 pm – 7:00 pm

Exhibit Hall Open

NE Exhibit Hall

3:30 pm – 7:00 pm

Posters available for viewing in the exhibit hall

NE Exhibit Hall

4:00 pm – 5:30 pm

Concurrent Sessions

More than Just Hot Air – Viable Applications of Next Generation Sequencing (NGS) in Clinical and Academic Laboratories FS

Main Ballroom East

(588-801-16 – 1.5 contact hours for this session)

This session will feature scientists from major academic hospitals who will describe current applications of NGS and metagenomics as part of routine laboratory testing. Speakers will describe implementation of NGS for tracking infections across healthcare institutions, the use of genomics and transcriptomics in a clinical laboratory, and analysis of the sequences in the National Center for Biotechnology Information (NCBI) database to drive our understanding of microbial taxonomy.

At the conclusion of this session, the participant will be able to:

- Explain how hospital-acquired infections can be tracked from one institution to another within a community
- Appreciate the cost-effectiveness of integrating NGS into a reference microbiology Workflow
- Describe the major impacts NGS will have on our current taxonomic scheme for microorganisms

Moderator: Michael Pentella, PhD, D(ABMM), Massachusetts State Public Health Laboratory

Implementing Genomically Informed Surveillance of Clinical Pathogens Across Healthcare Institutions
Lynn Bry, MD, PhD, Brigham and Women's Hospital

Genomics and Transcriptomics in the Clinical Microbiology Laboratory
Randall Olsen, MD, PhD, Houston Methodist Hospital

A New Genomics Driven Taxonomy: Are We There Yet?
George Garrity, ScD, Michigan State University

The Impact of Public Health Laboratories: How Return on Investment Metrics Can Help Your Laboratory KM

San Miguel

(588-802-16 – 1.5 contact hours for this session)

Return on Investment (ROI) models and resulting metrics determined for Public Health Laboratories (PHLs) can be used to communicate the value and importance of the services PHLs provide and help laboratories leverage this data to obtain needed funding. The ROI model created by APHL and their consultant will be showcased to members where they will gain an overview of the ROI Model; the process of developing metrics for PHLs; the significance of gathering data for metrics; and the practical application, utilization and benefits of ROI metrics.

At the conclusion of this session, the participant will be able to:

- Understand and explain the importance of the Return on Investment tool for PHLs
- Present data from a pilot study of beta-test sites

Moderator: Chad Campbell, M(ASCP), Utah Public Health Laboratory

What is ROI? Understanding the Metrics and What it Means to Public Health Laboratores
Lorelei Kurimski, MS, State Hygienic Laboratory at the University of Iowa

Demonstrating the Utility of the Tool: Data from a Pilot Study of Beta-test
Victor Waddell, PhD, Arizona State Public Health Laboratory

The Benefits and Efficacy of ROI Metrics for PHLs
Robert Rej, PhD, Wadsworth Center, New York State Department of Health

Beating Tuberculosis- How Far We've Come and The Way Forward GH ID

Mesilla

(588-803-16 – 1.5 contact hours for this session)

With tuberculosis mortality nearly halved since 1990, the fight against tuberculosis has paid its dividends over the past 25 years. Advances in effective diagnosis and treatment have saved 43 million lives in the past 15 years. Amid the progress made, TB remains one the leading causes of death worldwide with 1.5 million deaths in 2014. Of the 9.6 million people infected with TB in 2014, more than a third of cases went undiagnosed or unreported. To reduce the burden of TB globally, gaps in detection need to be filled. This session will include a report on TB worldwide as well as challenges and successes of current technologies (e.g. GeneXpert) being implemented in the field, both domestically and internationally, to fill the diagnosis gap.

At the conclusion of this session, the participant will be able to:

- Identify current challenges associated with implementation of new diagnostic technologies in domestic and international settings
- Describe the current status of TB burden worldwide and progress being made towards Eradication
- Describe the emerging technologies and programmatic implications of technologies such as Cepheid GeneXpert MTB/RIF for usage in both developing and developed settings

Moderator: **Marie-Claire Rowlinson**, PhD, D(ABMM), Florida Bureau of Public Health Laboratories – Jacksonville

- **Ed Desmond**, PhD, California Department of Public Health
- **Angela Starks**, PhD, Centers for Disease Control and Prevention
- **Jim Gallarda**, PhD, MBA, Gates Foundation

Integrating LRN-C into Public Health Practice EH PHPR

Ruidoso/Pecos

(588-804-16 – 1.5 contact hours for this session)

This session will present the importance of the Chemical Laboratory Response Network (LRN-C) and its role in the public health infrastructure. The LRN-C was created by CDC over a decade ago; the primary goal was to maintain an integrated network of laboratories, train personnel, demonstrate accuracy in testing, work with partners

and train to collect and ship samples in response to an emergency related to chemical threats. However, since the LRN-C's creation, these laboratories have not only met their goals but they have played a critical role in enhancing public health infrastructure by boosting laboratory capacity and being involved in other public health practices. Examples of states utilizing LRN-C resources to train staff, to conduct other studies such as biomonitoring, toxicology, newborn screening, and collaborate with other programs to respond to public health issues, will be presented.

At the conclusion of this session, the participant will be able to:

- Describe how LRN-C resources have enhanced the public health infrastructure over the past 10 years
- List LRN-C staff and equipment that are resources for the LRN-B laboratory
- Discuss how the chemical laboratory network resources are used to study environmental health concerns.

Moderator: Amy Watson, PhD, Centers for Disease Control and Prevention

One Hand Washes the Other: The LRN-C and Public Health Research in Wisconsin
Noel Stanton, MS, Wisconsin State Laboratory of Hygiene

Integrating LRN-C Ricinine Testing with LRN-B Ricin Assay for Environmental Evaluation
William Parks, North Carolina State Laboratory of Public Health

Utilizing LRN-C Resources for Biomonitoring in the Four Corners States
Jason Mihalic, Arizona Department of Health Services

5:30 pm – 7:00 pm

Welcome Reception in the Exhibit Hall

NE Exhibit Hall

Sponsored by Roche Diagnostics

6:00 pm – 6:30 pm

Poster authors available to answer questions

NE Exhibit Hall

TUESDAY, JUNE 7, 2016

7:30 am – 5:30 pm

Registration

NE Exhibit Hall Prefunction

7:30 am – 8:30 am

Coffee and Snacks

Lower Level West

8:00 am – 8:45am

Industry Workshops

Lower Level West

8:00 am – 9:30 am

Coffee and Snacks

NE Exhibit Hall Prefunction

Sponsored by Bio-Rad Laboratories

9:00 am – 10:30 am

Concurrent Sessions

Considerations for Implementing Emerging Technologies PHPR

Main Ballroom East

(588-805-16 – 1.5 contact hours for this session)

Many clinical laboratories and public health laboratories are in the process of adopting Matrix-Assisted Laser Desorption/Ionization Time of Flight (MALDI-TOF) Mass Spectrometry based analysis to identify bacteria and toxin activity. Prior to implementing MALDI-TOF, there are several considerations including training of staff, biosafety, sample preparation techniques and the accuracy of the technology. This session will focus on these considerations and provide an overview of APHL's activities to evaluate sample preparation techniques and performance of MALDI-TOF platforms for the identification of dangerous pathogens.

At the conclusion of this session, the participant will be able to:

- Describe MALDI-TOF technology and its use in private clinical and public health laboratories
- Apply the study findings on extraction methodologies for MALDI-TOF
- Explain recommendations to sentinel clinical laboratories using this emerging technology

Moderator: Amy Pullman, MT, Association of Public Health Laboratories

Safety and Accuracy Assessment of MALDI-TOF Mass Spectrometry Platforms for the Detection of Biological Threats
James Snyder, PhD,D(ABMM), F(AAM), American Society for Microbiology and University of Louisville Hospital

Implementing MALDI-TOF Mass Spectrometry in Public Health Laboratories
Anthony Tran, DrPH, MPH, D(ABMM), New York City Public Health Laboratory

Emerging Technologies and Safety Implications for Clinical Laboratories
James Rudrik, PhD, Michigan Bureau of Laboratories

Practical Informatics Lessons Using the Language of Laboratorians I

San Miguel

(588-806-16 – 1.5 contact hours for this session)

This session will provide the audience with an introduction to laboratory informatics and present some tools for effectively communicating with informatics staff. This jam-packed session will walk you through integrating informatics into your laboratory operations using easily understood, practical techniques and real-world examples that will resonate with every audience member.

At the conclusion of this session, the participant will be able to:

- Define 'Informatics' and explain its relevance to Public Health and describe the function and importance of public health laboratory informatics programs
- Understand the importance of communication between laboratory and informatics staff
- Describe AIMS platform and its utility to meet their laboratory or agency needs
- Explain technical assistance (TA) and how they may be able to utilize it

Moderator: Jon Lipsky, MBA, J Michael Consulting

- **Mary Kate Yost-Daljev**, PhD, J Michael Consulting
- **Jason Hall**, Centers for Disease Control and Prevention
- **Keith Higginbotham**, Alabama Department of Public Health
- **Dariush Shirazi**, State Hygienic Laboratory at University of Iowa

Guess Who's Coming to PulseNet's 20th Birthday Party: CIDT, WGS, and Other Fascinating Characters FS

Mesilla

(588-807-16 – 1.5 contact hours for this session)

This session will present ecologic and epidemiologic knowledge gained through the investigation of foodborne clusters detected through PulseNet surveillance, will highlight the findings from the PulseNet Cost-Benefit paper published in March 2016, and will explain how real-time enteric surveillance using Whole Genome Sequencing (WGS) is laying the groundwork for future culture-independent PulseNet methods that will allow pathogen subtyping direct from patient samples.

At the conclusion of this session, the participant will be able to:

- Describe how the PulseNet network has contributed to the further understanding of the epidemiology of foodborne diseases as well as the positive and negative effects of CIDTs on enteric surveillance
- Explain the effectiveness of the PulseNet network as demonstrated in the cost-benefit paper published in March 2016
- Discuss how WGS is used for prospective real-time enteric surveillance and how the network will prepare for culture-independent surveillance in the future

Moderator: TBD

- **Dave Boxrud**, MS, Minnesota Department of Health

The PulseNet Cost Benefit Study and Beyond: What We Have Learned & Where We are Headed for Molecular Enteric Surveillance
Craig Hedberg, PhD, University of Minnesota

PulseNet: A Network with a Glorious Past and a Bright Future
Peter Gerner-Smidt, MD, ScD, Centers for Disease Control and Prevention

"Hot" Topics in Radioanalytical Response - A Real World Perspective ELS

Ruidoso/Pecos

(588-808-16 – 1.5 contact hours for this session)

The Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico is the nation's only deep geological repository for nuclear waste. In February 2014, an accident occurred at WIPP, which resulted in a release of radioactivity at the facility. This session will provide attendees with information about the accident, insights into the testing performed, results of the testing and updates from CDC about progress in human clinical testing that could be used in response to real world incidents.

At the conclusion of this session, the participant will be able to:

- Explain what lead to the release of radioactivity at WIPP
- Describe the testing methods and the results of environmental testing
- Discuss human clinical testing methods that could be used after an incident involving radioactivity

Moderator: Jack Bennett, Lawrence Livermore National Laboratory

Waste Isolation Pilot Plan Laboratories
Mansour Akbarzadeh, Waste Isolation Pilot Plant Laboratories

Independent Monitoring of the Radiological Release Event at the Waste Isolation Pilot Plant (WIPP) Repository in New Mexico
Punam Thakur, PhD, Carlsbad Environmental Monitoring & Research Center

CDC's Response to an Accidental Release at the WIPP Nuclear Waste Site: Implications for a Public Health Response
Robert Jones, PhD, Centers for Disease Control and Prevention

10:30 am – 11:00 am

Break in the Exhibit Hall

NE Exhibit Hall

10:00 am – 6:00 pm

Exhibit Hall Open

NE Exhibit Hall

10:00 am – 6:00 pm

Posters available for viewing in the exhibit hall

NE Exhibit Hall

11:00 am – 12:00 pm

Plenary Session

Main Ballroom East

Dr. Katherine Kelley Distinguished Lecture

The Magic of Oz

(588-809-16 – 1.0 contact hours for this session)

Can someone really "read" your mind? Oz can! This session is like none other so be prepared to be transfixed. Oz Pearlman is one of the busiest performing mentalists in

the country (you may have seen him last season on America's Got Talent). He developed an interest in magic at a young age and what started as a hobby ended up becoming a lifelong passion. After a couple of years spent working on Wall Street, Oz decided to pursue his dream and become a full time entertainer. He has now been dazzling audiences with his world-class sleight of hand and mind reading ability for over a decade.

At the conclusion of this session, the participant will be able to:

- Discuss how concentration on specific ideas can assist in accomplishing them

Moderator: A. Christian Whelen, PhD, Hawaii State Laboratories Division

- **Oz Pearlman**, Mentalist and Magician

12:00 pm – 2:00 pm

Lunch in the Exhibit Hall (provided)

NE Exhibit Hall

Visit with the vendors and view the posters

Oz Pearlman will mingle with attendees in the exhibit hall.

2:00 pm – 3:30 pm

Concurrent Sessions

Stengthening the Biosafety Culture in Laboratories PHPR

Main Ballroom East

(588-810-16 – 1.5 contact hours for this session)

Clinical and public health laboratories are in the process of strengthening biosafety practices including hiring new biosafety officers. Fostering a culture of leadership on safety within these laboratories will be of utmost importance to ensure safe lab operations and reduce the risk of occupational exposures. This session will focus on tools for enhancing biosafety such as training for leadership, guidance on risk assessments and mitigation strategies.

At the conclusion of this session, the participant will be able to:

- Describe new techniques to build a culture of safety within the laboratory
- List resources, training sessions and tools available to improve safety as well as compliance within their laboratories.

Moderator: **Michael Pentella,** PhD, D(ABMM), Massachusetts State Public Health Laboratory

Strengthening a Culture of Laboratory Safety
Stephan Monroe, PhD, Centers for Disease Control and Prevention

Laboratory Leadership for Safety
Sean Kauffman: MPH, CHES, CPH, CIC, Behavioral-Based Improvement Solutions

Resourcing Biosafety Improvements
Alvin Shultz, MSPH, Centers for Disease Control and Prevention

Implementing Biosafety and Biosecurity Practices Domestically and Internationally
Reynolds Salerno, PhD, Centers for Disease Control and Prevention

Public Health Laboratories and Individualized Quality Control Plans (IQCP) QS

San Miguel

(588-811-16 – 1.5 contact hours for this sessions)

As of January 1, 2016, a new quality control option, the Individualized Quality Control Plan (IQCP), was made available for laboratories under the Clinical Laboratory Improvement Amendments of 1988 (CLIA). This voluntary approach increases flexibility for meeting regulatory requirements and provides laboratories the opportunity to customize QC for their testing in their unique environments and by their testing personnel. IQCP is an all-inclusive approach to quality based on risk management to address potential errors in the total testing process. It includes three main steps, (1) performing a risk assessment, (2) developing a QC plan, and (3) monitoring the plan through quality assessment. Topics covered include an overview of the background for IQCP, member experiences in implementing IQCP and feedback from recent CLIA inspections.

At the conclusion of this session, the participant will be able to:

- Describe the situations where IQCP can be used
- Discuss how he/she would implement IQCP in his/her laboratory
- List significant findings from recent CLIA inspections on IQCP

Moderator: Karen Breckenridge, MBA, MT(ASCP), Association of Public Health Laboratories

Overview of IQCP
Nancy Anderson, MMSc, Centers for Disease Control and Prevention

How PHLs have Implemented IQCP
Jill Power, MS, M(ASCP), CMQ/OE(ASQ), New Hampshire Division of Public Health Services

The Fairfax County CLIA Inspection Experience
Deborah Severson, MT(ASCP), Fairfax County Health Department Laboratory

Adventures in Sequencing: Bringing AMD to Public Health ID

Mesilla

(588-812-16 – 1.5 contact hours for this session)

The disciplines of clinical and public health microbiology are in the midst of an evolution precipitated by increased availability of new technologies. Although PHLs are just beginning to feel the effects of these changes, Advanced Molecular Detection (AMD) technologies including Next Generation Sequencing methods will become more widely used in Public Health Laboratories (PHLs) over the next 3 years. Genomic data generated from AMD methods will revolutionize both public health microbiology and public health practice in the United States. It is imperative that PHLs begin working with jurisdictional IT, epidemiology and surveillance programs to prepare for the addition of genomic data and identify those areas where AMD technologies will have the most significant impact.

At the conclusion of this session, the participant will be able to:

- Present impending changes in clinical and public health microbiology
- Discuss PHL friendly strategies to accommodate the storage and transmission of genomic data
- Describe innovations in public health practice that AMD data allows

Moderator: Greg Armstrong, MD, Centers for Disease Control and Prevention

- **Tambi Shaw**, MPH, California Department of Public Health (Invited)
- **Brandi Limbago**, PhD, Centers for Disease Control and Prevention (Invited)
- **Paul Rota**, PhD, Centers for Disease Control and Prevention (Invited)

What Dangers are Lurking in Your Water? How are Public Health Laboratories Responding? FS ID EH

Ruidoso/Pecos

588-813-16 – 1.5 contact hours for this session

This session will present public health threats posed by various water sources – environmental, drinking, recreational and the built environment. Public health approaches to mitigating the risks posed by water exposure will be discussed, including applied research in WGS and metagenomics. Additionally, the need to improve clinical Cryptosporidium testing will be presented along with efforts to expand CryptoNet. Finally, attendees will learn about the use of WGS in the response to the 2015 Legionella outbreak in New York City and current efforts to detect Legionella directly from water samples.

At the conclusion of this session, the participant will be able to:

- Describe CDC efforts to jump start Environmental Metagenomics studies
- Generate reliable results from their own testing for Cryptosporidium
- Discuss the role WGS played in the large outbreak of Legionella in NYC in 2015

Moderator: **Jennifer Rakeman-Cagno,** PhD, New York City Public Health Laboratory

Environmental Metagenomics: Developing Guidance for Environmental Labs Looking to Make Use of NextGen Sequencing Technology
Vince Hill, PhD, Centers for Disease Control and Prevention

Advances in Testing for Cryptosporidiosis: Quality Testing Nationwide as the Basis for a Network Designed for Outbreak Detection and Routine Surveillance (CryptoNet)
Dawn Roellig, PhD, MS, Centers for Disease Control and Prevention

NGS Aspect to the Investigation into a Legionella Outbreak Linked to Cooling Towers
Kimberlee Musser, PhD, Wadsworth Center, New York State Department of Health

3:30 pm – 4:00 pm

Break in the Exhibit Hall

NE Exhibit Hall

4:00 pm – 5:00 pm

Member Assembly

Main Ballroom East

5:00 pm – 6:00 pm

Networking Reception in the Exhibit Hall

NE Exhibit Hall

WEDNESDAY, JUNE 8, 2016

7:30 am – 5:30 pm

Registration

NE Exhibit Hall Prefunction

7:30 am – 8:30 am

Coffee

Lower Level West

8:00 am – 8:45 am

Roundtables

Improving the Risk Assessment Process PHPR

Sandia/Santa Ana

In this session, we will review current risk assessment processes and SOPs utilized in the public health laboratories. We will also share examples of SOPs and have an open discussion of some of the current issues related to performing risk assessments for infectious disease testing as well as other areas within the public health and clinical laboratories. Participants should come with SOPs that they are using and be prepared to ask questions of other public health laboratories during this session.

Moderator: Christina Egan, PhD, Wadsworth Center, New York State Department of Health

- **Michael A. Pentella**, PhD, D(ABMM), Massachusetts State Public Health Laboratory
- **David Hill**, MEM, CIH, CBSP, Wadsworth Center, New York State Department of Health

Overcoming Barriers to Implementing NGS ID

Picuris

Public health laboratories are currently facing challenges associated with the transition from conventional micro and molecular biology techniques to utilizing NGS methods. While several public health laboratories have made tremendous strides in adopting these methods and applying them to infectious disease characterization and surveillance others continue to face barriers to bringing this technology to their laboratory.

- **Mark Pandori**, PhD, Alameda County Public Health Laboratory
- **John Fontana**, PhD, Oregon State Public Health Laboratory

The L-SIP Update: Stories from Recent L-SIP Participants QS

Isleta/Jemez

Several recent Laboratory System Improvement Program (L-SIP) participants will share their L-SIP assessment experience. The roundtable session will allow for discussion on the advantages of conducting an L-SIP assessment and include information about post-assessment quality improvement activities that were started as a result of completing an L-SIP assessment.

Moderator: Tina Su, MPH, Association of Public Health Laboratories

- **Leslie A. Wolf**, PhD, HCLD(ABB), Louisville Metro Department of Public Health and Wellness
- **Deborah Severson**, MT(ASCP), Fairfax County Health Department Laboratory
- **Chris Atchison**, MPA, State Hygienic Laboratory at the University of Iowa
- **Lorelei Kurimski**, MS, State Hygienic Laboratory at the University of Iowa

What's in Our Water and How Do We Know (Meeting Testing Needs for Emerging Contaminants)? EH

Taos

Contaminated drinking water is a public health concern, particularly by chemicals not regulated by the Safe Drinking Water Act. Environmental public health laboratories are frequently called upon to detect and quantify unregulated contaminants. This roundtable session will engage participants to discuss contaminants of concern in their jurisdiction and what testing methods are used or being developed to identify and measure concentrations of these contaminants.

- **Moderator: Michael Wichman**, PhD, MS, State Hygienic Laboratory at the University of Iowa
- **Henry Leibovitz**, PhD, Rhode Island State Health Laboratories
- **Kenneth Aldous**, PhD, Wadsworth Center, New York State Department of Health
- **Martina McGarvey**, DM, MS Pennsylvania Department of Environmental Protection

8:00 am – 9:00 am

Coffee

NE Exhibit Hall Prefunction

9:00 am – 10:30 am

Awards Ceremony & Breakfast

NE Exhibit Hall

Sponsored by Hologic

9:00 am – 2:00 pm

Posters available for viewing in the exhibit hall

NE Exhibit Hall

10:00 am – 2:00 pm

Exhibit Hall open

NE Exhibit Hall

10:30 am – 11:00 am

Break in the Exhibit Hall

NE Exhibit Hall

11:00 am – 12:30 pm

Plenary Session

Changes to the Common Rule: Impact on Public Health Laboratories NBS ID PO

Main Ballroom East

(588-814-16 – 1.5 contact hours for this session)

In September 2015, the US Department of Health & Human Services released a notice of proposed rulemaking (NPRM) to announce proposed revisions to the regulations protecting human subjects in research, generally referred to as the Common Rule. The proposed changes address the need to protect individuals who participate in research as technology advances, the scope and breadth of clinical trials deepens, and concern arises over individuals making informed decisions about participating in research. One of the major changes outlined in the NPRM would require obtaining broad informed consent for the storage and use of de-identified biospecimens when used in federally funded research activities. This session will review the proposed changes and discuss implications for public health laboratories with a focus on newborn screening and infectious disease program operations.

At the conclusion of this session, the participant will be able to:

- Explain the broad impact of the changes to the Common Rule on public health laboratories

- List activities within newborn screening and infectious disease programs that will require informed consent and those that won't
- Describe the elements required for broad consent

Moderator: TBD

- **Susan Tanksley**, PhD, Texas Department of State Health Services
- **Michelle Huckaby Lewis**, MD, JD, Johns Hopkins University
- **Anne Marie Comeau**, PhD, New England Newborn Screening Program, University of Massachusetts Medical School
- **Carrie Langbo**, MS, Michigan Department of Health and Human Services
- **Joanne Bartkus**, PhD, D(ABMM), Minnesota Public Health Laboratory Division

12:30 pm – 2:00 pm

Lunch (on your own)

Visit with the vendors and view posters

1:00 pm – 1:30 pm

Poster authors available to answer questions

NE Exhibit Hall

1:30 pm

Raffle Drawing in the Exhibit Hall

NE Exhibit Hall

2:00 pm – 3:30 pm

Plenary Session

Getting into the Weeds: Public Health Laboratores and Cannabis Testing EH

Main Ballroom East

(588-815-16 – 1.5 contact hours for this session)

Legislators continue passing laws related to both medical and recreational cannabis. Given uncertainty about (1) how to regulate and (2) testing related products, states adopt various approaches, which continue to evolve. Hear about the latest advances made by laboratories across the country and better understand some of the issues associated with these programs and how they can be addressed.

At the conclusion of this session, the participant will be able to:

- Explain the role of the state lab in assuring the health and safety of cannabis patients
- Discuss the application of whole genome sequencing in cannabis testing

Moderator: Eric Blank, DrPH, Association of Public Health Laboratories

Role of the New Jersey State Laboratory in Assuring the Health & Safety of Cannabis Patients
Zhihua (Tina) Fan, PhD, New Jersey Department of Health

Certification of Cannabis Testing Labs: Minnesota's Experience
Joanne Bartkus, PhD, D(ABMM), Minnesota Department of Health

Quality Assurance Role of the Laboratory in the Cannabis Testing Industry
Jeremy Applen, Consultant

Cannabis Microbiome Sequencing Reveals Mycotoxic Fungi
Kevin McKernan, Courtagen Life Sciences

3:30 pm – 4:00 pm

Break

NE Exhibit Hall Prefunction

4:00 pm – 5:30 pm

Concurrent Sessions

We're All in this Together: Using a One Health Approach to Mitigate Highly Pathogenic Avian Influenza (HPAI) in the US ID

Main Ballroom East

(588-816-16 – 1.5 contact hours for this session)

This session will give an overview of HPAI, how it got here, what is being done about it and its significance to public health. It will also describe the epidemiology of the outbreaks in 2015 with an overview of both human and animal surveillance and response plans.

At the conclusion of this session, the participant will be able to:

- Discuss why HPAI is important to public health and how outbreaks are being addressed with a one health approach
- Identify lessons learned from affected states

Moderator: Peter Shult, PhD, Wisconsin State Laboratory of Hygiene

Federal HPAI Surveillance and Outbreak Response in Wild Birds and Poultry
Thomas DeLiberto, PhD, DVM, U.S. Department of Agriculture

Intersection of Animal and Human Health in a State HPAI Outbreak Response
Joni Scheftel, DVM, MPH, Minnesota Department of Health

Public Health Laboratory Role in HPAI Response: Challenges and Opportunities
Sara Vetter, PhD, Minnesota Department of Health

Eenie Meenie Miney Mo – Using a Risk-based Approach for Food Sampling Aids in the Protection of Public Health FS

San Miguel

(588-817-16 – 1.5 contact hours for this session)

State food testing laboratories often play an integral role in the development of sampling plans as part of federal grant requirements or state-specific surveillance activities. Selecting appropriate samples for analysis is a critical component of any food safety program in order to monitor compliance and conduct routine surveillance for agents of public health concern. A risk-based approach to sampling provides the most effective use of limited resources and is in line with the Food Safety Modernization Act's (FSMA) focus on prevention as opposed to response.

At the conclusion of this session, the participant will be able to:

- Describe how FDA develops new assignments using risk-based sampling and how study results are used within the agency
- Provide examples of how their peers developed risk-based sampling programs to meet federal grant requirements
- Communicate outbreak and integrated food safety system (IFSS) successes resulting from risk-based sampling work.

Moderator: Tracy Stiles, MS, William A. Hinton State Laboratory Institute

- U.S. Food and Drug Administration – TBD
- **Megan Davis**, MS, South Carolina Bureau of Laboratories
- **Kristina McCallum**, Colorado Department of Agriculture

PHL Competencies in Action W

Mesilla

(588-818-16 – 1.5 contact hours for this session)

In May 2015, the Centers for Disease Control and Prevention (CDC) along with the Association of Public Health Laboratories (APHL) published the Competency Guidelines for Public Health Laboratory Professionals. This comprehensive document stands as an important reference resource. This session will outline examples of the competencies in action in an effort to encourage member laboratories to adopt and implement these competencies. The session will have speakers from state and local laboratories as well as the current APHL Emerging Leader Cohort.

At the conclusion of this session, the participant will be able to:

- Describe and share tools that may serve as models for members that would allow for the potential of the APHL competency guidelines to be fully realized
- Share experience in the development of position descriptions to integrate competencies into human resource management system
- Explain how the competencies are being integrated into a leadership program

Moderator: **Christine Bean,** PhD, MBA, MT(ASCP), New Hampshire Public Health Laboratories

- **Christine Bean**, PhD, MBA, MT(ASCP), New Hampshire Public Health Laboratories
- **Sanjib Bhattacharyya**, PhD, City of Milwaukee Health Department Laboratory
- **Beth Hochstedler**, State Hygienic Laboratory at the University of Iowa
- **Lorelei Kurimski**, MS, State Hygienic Laboratory at the University of Iowa
- Emerging Leader Cohort 8 Member

Takin' it to the Streets: Laboratory Response Network (LRN) Outreach to the Emergency Responder Community EH

Ruidoso/Pecos

(588-819-16 – 1.5 contact hours for this session)

The role of public health laboratories in emergency response extends beyond providing critical test data. Many LRN laboratories have formed inventive and beneficial partnerships with a variety of emergency responders. This session will provide successful examples of these lab-responder partnerships and their benefits, as well as challenges.

At the conclusion of this session, the participant will be able to:

- Provide multiple examples of successful LRN laboratory partnerships with the responder community

- Illustrate the attendant contributions to state emergency preparedness
- Discuss benefits to public health laboratories from these partnerships

Moderator: Noel Stanton, MS, Wisconsin State Laboratory of Hygiene

Unknown Substance Training for HAZMAT: Site Assessment and Lab Sample Collection
Meshel Mork, MS, Wisconsin State Laboratory of Hygiene

The 2016 Florida Chemical Exposure Exercise - Another Great Experience
Faith McInnis, Florida Bureau of Public Health Laboratories

Challenges with Bringing Proficiency Testing to the First Responder World
David Moran, MT (ASCP), Nebraska Public Health Laboratory

THURSDAY, JUNE 9, 2016

7:30 am – 12:30 pm

Registration

NE Exhibit Hall Prefunction

7:30 am – 8:30 am

Coffee

Lower Level West

8:00 am – 8:45 am

Roundtables

What's New with Select Agents? PHPR

Sandia/Santa Ana

In this session, participants will discuss current proposed changes to the select agent program as well as current issues related to implementation of the select agent program in the public health laboratory. Participants should be prepared to discuss impacts of the new select agent requirement in their labs including verification/validation inactivation protocols for removal of select agents from high containment laboratories.

Moderator: Christina Egan, PhD, Wadsworth Center, New York State Department of Health

David Hill, MEM, CIH, CBSP, Wadsworth Center, New York State Department of Health

ISO Accreditation: In Search Of Resources to Sustain Accredited Food and Feed Testing Laboratories FS

Picuras

In the federal government's effort to establish national laboratory standards and implement a fully integrated national food safety system (IFSS), laboratory accreditation has been identified as a critical element for ensuring the integrity and accuracy of laboratory testing. In 2012, FDA funded 31 state laboratories performing food safety testing under the Manufactured Food Regulatory Program Standards (MFRPS) to attain or expand ISO/IEC 17025 accreditation in support of an IFSS. These laboratories are currently in year 4 of their 5-year cooperative agreement with FDA. Future federal funding for sustaining testing and maintaining accreditation is uncertain beyond the 5-year grant cycle, leaving laboratories to search for alternative solutions.

Moderator: Robyn Pyle, Association of Public Health Laboratories

- **Maria Ishida**, PhD, New York State Department of Agriculture & Markets
- **Michael Wichman**, PhD, State Hygienic Laboratory at the University of Iowa
- **Sharon Shea**, MHS, MT(ASCP), Association of Public Health Laboratories

Tips & Tricks for Retaining Organizational Knowledge: Using the Knowledge Retention Toolkit KM

Taos

The Knowledge Retention Toolkit is designed to capture at-risk and critical knowledge that is specific to organizational performance and decision-making. The moderators will discuss and demonstrate how to apply the Knowledge Retention toolkit and discover tips and tricks so that PHLs can implement effective processes to capture and retain explicit and tacit knowledge through tool components.

- **Lorelei Kurimski**, MS, State Hygienic Laboratory at the University of Iowa
- **Mimi Lachica**, MA, Long Beach Public Health Laboratory

The Continuing Battle Against Sexually Transmitted Diseases ID

Isleta/Jemez

Public health laboratorians need to develop and maintain expertise in STD diagnostics, regardless of whether screening is performed in the public or private sector. The incidence of syphilis continues to rise, there is a loss of culture capacity to detect N. gonorrhoeae resistance, and extragenital Chlamydial infections are going undetected. Public Health laboratory professionals are uniquely qualified to provide technical assistance to clinicians and program partners on the appropriate use and interpretation of STD tests. This roundtable will provide a forum for participants to discuss their experiences and gather the latest information about the continuing public health battle against sexually transmitted diseases. In guided discussion, the importance of developing relationships with public health partners and clinicians will be addressed, and participants will learn of tools and resources that are available to assist in the battle against STDs.

- **Richard Steece**, PhD, D(ABMM), Tennessee Department of Health: Laboratory Services
- **Anthony Tran**, DrPH, MPH, D(ABMM), New York City Public Health Laboratory
- **John Papp**, PhD, Centers for Disease Control and Prevention

8:00 am – 9:30 am

Coffee

NE Exhibit Hall Prefunction

9:00 am – 10:30 am

Concurrent Sessions

Case Studies: Public Health Laboratories Respond to Threats PHPR

Main Ballroom East

(588-820-16 – 1.5 contact hours for this session)

This session will present case studies of public health laboratories responding to threats such as plague, tularemia, botulism and shipments of live anthrax. Presenters will describe biosafety challenges and the value of the Laboratory Response Network including the connections with clinical and non-traditional partners to maintain a strong system of rule-out and referral for threats.

At the conclusion of this session, the participant will be able to:

- Explain the public health laboratory response to plague and tularemia as well as to the live shipment of anthrax to multiple laboratories
- Describe technologies in place to detect botulism

Moderator: Tyler Wolford, MS, Association of Public Health Laboratories

A Case of Four Wheeling Botulism in Minnesota
Maureen Sullivan, MPH, Minnesota Public Health Laboratory

Perfect Storm: LRN Laboratory Response to Simultaneous Plague and Tularemia Outbreaks During Challenging Circumstances
Larry Sater, MS, Colorado Department of Public Health and Environment

San Antonio Metro Health: Department of Defense Agent Inactivation Response Noir
Mark Wade, San Antonio Metropolitan Health District

PHLSD and Informatics Self-Assessment Tool: A New Approach to Information Sharing KM QS

San Miguel

(588-821-16 – 1.5 contact hours for this session)

The Public Health Laboratory Systems Database (PHLSD) and Informatics Self-Assessment Tool are web-based tools developed by APHL, with support from CDC that enables PHLs to access their informatics and testing capabilities. The objective of this breakout session is to showcase both the PHLSD and Informatics Self-Assessment Tool, providing members with information on what they are and the value they have to PHLs.

At the conclusion of this session, the participant will be able to:

- Explain the need and use of information sharing
- Describe the purpose and utilization of these tools for PHLs
- List the many benefits the tools have to offer

Moderator: **Karen Breckenridge,** MBA, MT(ASCP), Association of Public Health Laboratories

PHLSD and Informatics Self-Assessment Tool: Why are they Useful for PHLs?
John Ridderhof, MPH, DrPH, Centers for Disease Control and Prevention

PHLSD: A New Approach to Information Sharing
Deborah Kim, MPH, Association of Public Health Laboratories

Utilizing the Informatics Self-Assessment Tool
Willie Andrews, BSMT(ASCP), Virginia Division of Consolidated Laboratory Services

Implementation of FDA's Laboratory Developed Test Guidance PO

Mesilla

(588-822-16 – 1.5 contact hours for this session)

In a follow up to last year's session on laboratory developed tests (LDTs), this session will review FDA's final guidance on the policy for regulating LDTs. An overview of the final guidance will be provided, followed by a discussion of the timeline, new compliance responsibilities and other changes public health laboratories and CDC should anticipate.

At the conclusion of this session, the participant will be able to:

- Explain FDA's final policy on LDT regulation
- Discuss compliance responsibilities to new regulations
- Describe the timeline of new regulatory requirements

Moderator: TBD

- **Alberto Gutierrez**, PhD, U.S. Food and Drug Administration
- **Michael Shaw**, PhD, Centers for Disease Control and Prevention
- **Kerry Buchs**, MHA, MT(ASCP), Philadelphia Public Health Laboratory
- **Grace Kubin**, PhD, Texas Department of State Health Services (Invited)

Coal Ash and Mine Spills: Environmental Laboratory Implications ELS

Ruidoso/Pecos

(588-823-16 – 1.5 contact hours for this session)

The 2008 Tennessee Valley Authority Kingston Coal Ash and 2015 Colorado Gold King Mine spills were two environmental disasters with implications on public health laboratory operations. The Kingston Coal Ash spill was the precursor to the recently-finalized EPA Coal Combustion Residuals (CCR) Rule. Along with regulatory authorities and coal-burning utilities, state public health laboratories will play a key role in determining how the CCR Rule will be implemented and monitored. The Gold King Mine required immediate and continued environmental sampling and biomonitoring efforts between the Colorado, New Mexico and Utah state public health laboratories. All three states collected water samples and sent to respective state or private laboratories. Biomonitoring samples will be collected from this region as part of a previously-planned biomonitoring grant funded study for the four corners states.

At the conclusion of this session, the participant will be able to:

- Discuss the role of environmental laboratories in disaster response efforts and any resultant policy changes
- Describe potential environmental impacts from the burning of coal used to generate electricity
- Explain the potential impacts of the EPA CCR Rule in their state

Moderator: Bob Read, PhD, Tennessee Department of Health: Laboratory Services

- **Bob Read**, PhD, Tennessee Department of Health: Laboratory Services
- **Craig Zeller**, U.S. Environmental Protection Agency Region 4
- U.S. Environmental Protection Agency Region 4 – TBD

10:30 am – 11:00 am

Break

NE Exhibit Hall Prefunction

11:00 am – 12:30 pm

Plenary Session

Talk Nerdy to Me: Communicating Technical Subjects to a Non-Technical Audience C

Main Ballroom East

(588-824-16 – 1.5 contact hours for this session)

Your public health lab is doing fascinating and valuable work that people want and need to understand – so how do you tell the public about it? Talk nerdy to them! Using stories rather than data is more memorable and persuasive when speaking with a public audience. This panel will discuss how to convey technical subjects to public audiences by working with journalists and bloggers, and by using various communications tools to tell meaningful stories.

At the conclusion of this session, the participant will be able to:

- Communicate the value of their work with journalists, bloggers and other communicators
- Describe what makes a story meaningful and exciting
- Discuss how to think critically about using blogs and social networks to tell their Stories

Moderator: A. Christian Whelen, PhD, Hawaii State Laboratories Division

How to Make your Public Health Stories Come Alive
Susan Swanberg, MS, MA, JD, PhD, University of Arizona

Thinking Critically About Blogs and Social Media
Matt Shipman, North Carolina University

Thinking Strategically About Your Lab's Public Communication
Kirk Englehardt, MPA, University of Tennessee at Chattanooga

12:30 pm

Meeting adjourns

1:00 pm – 3:00 pm

Optional tour of the New Mexico State Public Health Laboratory

Please keep in mind that this schedule is a work in progress and is subject to change.