

2016 APHL[®] ANNUAL MEETING

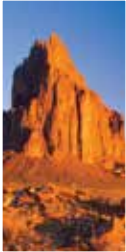
and tenth government environmental laboratory conference

June 6–9, 2016

Albuquerque, NM

Albuquerque Convention Center

Final Program



#aphl
www.aphl.org

Meeting at a Glance

TIME	MONDAY, JUNE 6	TUESDAY, JUNE 7	WEDNESDAY, JUNE 8	THURSDAY, JUNE 9	
7:00am					
7:30am	Coffee				
8:00am	Pre-Conf Workshops (3)	Industry Workshops/Coffee	Roundtables (4) / Coffee	Roundtables (4) / Coffee	
8:30am					
9:00am			Breakout Sessions (4)	Awards Breakfast	Breakout Sessions (4)
9:30am			Break	Break	Break
10:00am			Katherine Kelley Lecture – The Magic of Oz	Changes to the Common Rule	Talk Nerdy to Me
10:30am			Lunch provided in the Exhibit Hall – Visit the exhibitors/posters	Lunch (on your own) – Visit the exhibitors/posters – Raffle (1:30pm)	Tour of New Mexico PHL
11:00am	Lunch on own (invited Lab Director lunches)	Breakout Sessions (4)	Break		
11:30am					
12:00pm		Member Assembly	Breakout Sessions (4)		
12:30pm		Networking Reception (in Exhibit Hall)			
1:00pm	Welcome Session				
1:30pm	Continuum of Response from Ebola to Zika				
2:00pm					
2:30pm	Break				
3:00pm	Breakout Sessions (4)				
3:30pm					
4:00pm	Welcome Reception (in Exhibit Hall)				
4:30pm					
5:00pm					
5:30pm					
6:00pm					
6:30pm					
7:00pm					

Welcome to Albuquerque!

On behalf of the Association of Public Health Laboratories (APHL), I take great pleasure in welcoming you to Albuquerque for the 2016 APHL Annual Meeting and Tenth Government Environmental Laboratory Conference. The Planning Committee and APHL staff did a great job organizing a fantastic conference that we believe you will find educationally stimulating and memorable. You will notice there is no “theme” this year. The committee decided that, although a theme can help guide planning and allow catchy phrases, the APHL Annual Meeting essentially IS the theme; it IS the experience.

Speaking of experiences — don’t miss America’s Got Talent finalist Oz Pearlman as he mystifies the audience during the Dr. Katherine Kelley Distinguished Lecture. Watch for PulseNet displays and events as they celebrate their 20th year of fighting enteric diseases. Beyond an impressive scientific session schedule, explore the Special Events listed on page 6 of this program and do not miss the APHL Experience in the Exhibit Hall where you can discover new tools and resources created by APHL just for you! Be sure to visit the exhibitors and posters to see what our sponsors and your colleagues have to share. Lastly, please take a little time to enjoy some of the unique Southwestern sites and fabulous cuisine in the Land of Enchantment.



A. Christian Whelen, PhD
APHL President-Elect &
2016 Annual Meeting Planning Committee Chair

The Association of Public Health Laboratories

VISION: A healthier world through quality laboratory systems.

MISSION: Shape national and global health outcomes by promoting the value and contributions of public health laboratories and continuously improving the public health laboratory system and practice.

The Association Of Public Health Laboratories (APHL) is a non-profit 501(c)(3) organization representing governmental laboratories that monitor and detect public health threats, including emerging infectious disease surveillance, detection of metabolic and genetic conditions in newborns, water contamination identification and foodborne outbreak detection. APHL's members are state, local, county and city public health laboratories, state and local environmental health laboratories, state agricultural laboratories, corporations, individual and student members with an interest in public health laboratory issues, and organizations that share common goals with APHL.

APHL IS A NATIONAL LEADER IN:

- Scientific Expertise
- Education and Training
- Health Policy
- Informatics
- Quality Assurance
- Workforce Development
- Laboratory Systems
- Global Laboratory Capacity

APHL Board of Directors

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Tamara Theisen, MT(ASCP), Saginaw County, MI, Local Institutional Member

Mark Wade, San Antonio, TX, Local Institutional Member

Maria Ishida, PhD, New York, Public Health Associate Institutional Member

Scott Becker, MS, Executive Director (Ex-officio)

Annual Meeting Planning Committee

A. Christian Whelen, PhD, D(ABMM), Hawaii Department of Health State Laboratories, Chair

Wade Aldous, PhD, State Hygienic Laboratory at the University of Iowa

Andrew Cannons, PhD, HCLD(ABB), Florida Bureau of Public Health Laboratories – Tampa

Charlotte Gaydos, MS, MPH, DrPH, John Hopkins University

Nicole Green, PhD, D(ABMM), Los Angeles Public Health Laboratory

Rob Hnatuk, Thermo Fisher Scientific

Maria Ishida, PhD, New York State Department of Agriculture & Markets

Paul Kimsey, PhD, California Department of Public Health

Twila Kunde, MPH, MBA, New Mexico Department of Health

Henry Leibovitz, PhD, Rhode Island State Health Laboratories

Lixia Liu, PhD, MP(ASCP), D(ABMM), New Mexico Department of Health

Richard Steece, PhD, D(ABMM), Tennessee Department of Health: Laboratory Services

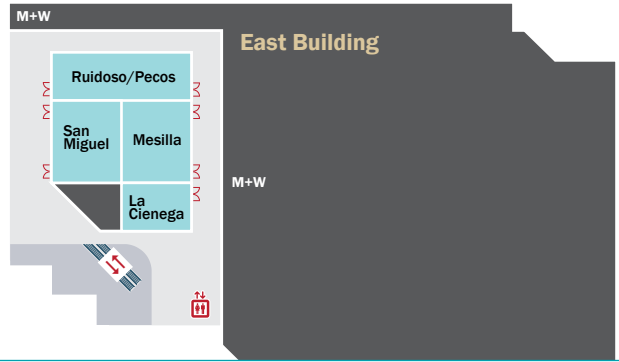
Maureen Sullivan, MPH, Minnesota Public Health Laboratory Division

Anthony Tran, DrPH, MPH, MT(ASCP), New York City Public Health Laboratory

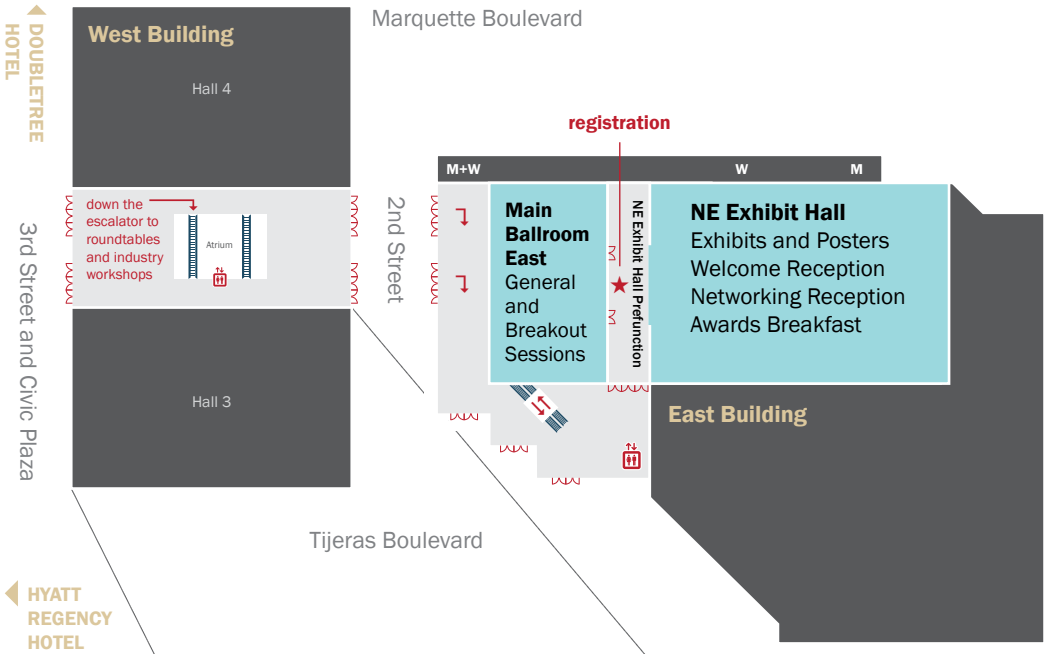
Albuquerque Convention Center

With the exception of the roundtables and industry workshops, all the meeting rooms are in the East building (first or second floors). Roundtables and industry workshops are across the street in the West building (lower level).

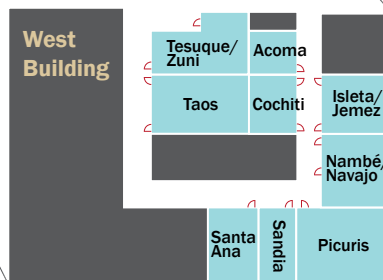
UPPER LEVEL Breakout and Preconference Sessions



MAIN/STREET LEVEL Main Ballroom and Exhibit Hall



LOWER LEVEL Roundtables and Industry Workshops



General Information

Conference Site

Albuquerque Convention Center
401 2nd St. NW
Albuquerque, NM 87102

Headquarters Hotel

Hyatt Regency Albuquerque
330 Tijeras NW
Albuquerque, NM 87102
505.842.1234

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.

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

Cancellation Policy

A \$100 cancellation policy will be assessed on all registrations cancelled before May 1. No refunds will be allowed after that date. Registrations are transferable if APHL is notified beforehand.

On-site Registration Hours

Registration Desk – NE Exhibit Hall Prefunction

Sunday, June 5	4:00 pm – 7:00 pm	Wednesday, June 8	7:30 am – 5:30 pm
Monday, June 6	7:00 am – 6:00 pm	Thursday, June 9	7:30 am – 12:45 pm
Tuesday, June 7	7:30 am – 5:30 pm		

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 for which 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.

Optional Tour

Thursday, June 9

1:30 pm – 3:30 pm New Mexico State Public Health Laboratory

The bus will depart from the Hyatt lobby promptly at 1:00 pm and return by 3:00 pm. Attendees who have pre-signed up for the tour will have a ticket in their registration packet. Please meet in the hotel lobby at 12:45 pm.

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.

Complimentary Wireless

Hyatt Regency – There is complimentary wireless internet in the sleeping rooms and public areas of the hotel. Follow directions provided at the front desk.

Albuquerque Convention Center – There is complimentary wireless internet throughout the convention center. Select “ConventionFreeWifi” and accept the terms and conditions.

Enhance Your Experience With the Conference Mobile App

Available 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.



APHL Experience Exhibit Hall

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 the following scheduled demo times:*

Mon, June 6, 3:30-5:30 pm (break)

Human Resources: Hiring and Inspiring

Lisa Chilcote, APHL

Mon, June 6, 5:30-7:00 pm (reception)

General Laboratory Competency Tool

APHL Emerging Leaders Cohort 8

Tue, June 7, 10:30 am - 12:00 pm (break)

ROI Tool

Deborah Kim, Karen Breckenridge and
Tina Su, APHL

**Newborn Screening and Genetics
Program Resources**

Jelili Ojodu, Careema Yusuf,
Guisou Zarbalian, Sikha Singh, APHL

Tue, June 7, 12:00-2:00 pm

(lunch in ex hall)

**Water Laboratory Alliance Analytical
Preparedness Tools**

Clara Wool and Colin Johnson, EPA;
Sarah Wright, APHL

**Heads in the Cloud: Electronic Laboratory
Reporting (ELR) for Animal Rabies**

Dave Sanderson, Riki Merrick and
Linda Cohen, APHL | Christine Urban,
Wouter Badenhorst, Mel Kourbage and
Geo Miller, APHL Consultants

Tue, June 7, 3:30-5:00 pm (break)

APHL Amazon Bookstore

Linette Granen, APHL

Tue, June 7, 5:00-6:00 pm (reception)

That's Sick Website, Educators Tab

Network of Laboratory Leaders Alumni
(NOLLA)

Take Advantage of Your Member Benefits

Linette Granen and Drew Gaskins, APHL

Wed, June 8, 10:30 am - 12:30 pm (break)

Human Resources: Hiring and Inspiring

Lisa Chilcote, APHL

**Public Health Laboratory System Database
(PHLSD)**

Deborah Kim, Jacob Rosalez and
Michael Marsico, APHL

Wed, June 8, 12:30-2:00 pm (lunch on own)

**Laboratory System Improvement Program
(L-SIP)**

Tina Su, APHL

**Environmental Public Health Tracking
Network Portal(L-SIP)**

Ruhiyyih Degeberg and Sarah Wright, APHL

* As of April 20. Subject to change. See the mobile app for the most up-to-date demos and times.

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, 1:30 pm – 3:30 pm

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
Christin Hanigan, PhD, 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

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
- Lynn Gallagher, JD, 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
- Recall the laboratory response to Ebola and Zika viruses
- Explain the impact of the Global Health Security Agenda and its current activities

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**
- **Ambassador Bonnie Jenkins, PhD, LLM, MPA, JD, U.S. Department of State**

3:30 pm – 4:00 pm

Break in the Exhibit Hall

NE Exhibit Hall

Sponsored by Bio-Rad Laboratories

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 – Current Applications of Next Generation Sequencing (NGS) in Clinical Laboratories **FS** **ID**

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:

- Appreciate the cost-effectiveness of integrating NGS into a microbiology workflow
- Explain how hospital-acquired infections can be tracked from one institution to another within a community
- 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

Genomics and Transcriptomics in the Clinical Microbiology Laboratory

Randall Olsen, MD, PhD, Houston Methodist Hospital and Research Institute

Implementing Genomically Informed Surveillance of Clinical Pathogens Across Healthcare Institutions

Lynn Bry, MD, PhD, Brigham and Women's 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** **QS**

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:

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

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

What Is ROI? Understanding the Metrics and What It Means to Public Health Laboratories

Lorelei Kurimski, MS, State Hygienic Laboratory at the University of Iowa

Data Gathering and Populating the APHL ROI Tool

Victor Waddell, PhD, Arizona State Public Health Laboratory

Applying the APHL ROI Tool: Results from the Pilot Study

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, 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 Mowbray, 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

Industry Workshops

Tuesday, June 7 - 8:00 am – 8:45 am

Coffee & Lite Breakfast Foods Provided

Abbott Molecular • Picuras

Transform Your CT/NG Testing **ID**

Abbott m2000 RealTime CT/NG offers both sensitivity and specificity for detecting *C. trachomatis* and *N. gonorrhoeae* from a single sample. The Abbott m2000 CT/NG test provides new levels of simplicity (a single collection device with five FDA approved specimen types); savings (consolidation of FDA approved viral loads and HCV Genotype on a single system); safety (multi-collect kit transfer with pierceable cap); and solutions (increased efficiencies with quality results) for your laboratory. The m2000 also has the ability to perform laboratory defined tests for those emerging public health needs.

Speaker: **Dr. Danijela Lucic**, Scientific Affairs, Abbott Molecular

Illumina • Taos

What's New in Illumina Sequencing and Pathogen Detection **FS** **ID**

This presentation will discuss the latest transformations and discoveries in pathogen detection affecting public health. There will be a brief description of Illumina platform innovations and new applications.

Speaker: **Kelly Hoon**, Commercial Development Manager, Microbial and Infectious Disease, Illumina

Luminex Corporation • Tesuque/Zuni

Luminex Mosquito-Borne Pathogen Panel, Cystic Fibrosis Assays, and Other Public Health Applications **ID** **NBS**

This presentation will highlight Luminex public health applications, with a focus on the mosquito-borne panel. This panel allows for rapid nucleic acid identification of current pathogens of public health concern transmitted by mosquitoes, including Zika, Chikungunya, and Dengue viruses. Identification of cystic fibrosis mutations and variants will also be discussed.

Speakers: **Aaron Benfield**, PhD, Director, Field Applications, Americas, Luminex;
Joshua Griffith, Genetics Regional Marketing Manager, Luminex

PerkinElmer • Conchiti

NextGen Sequencing for LSD Neonatal Panel – Presumptive Positives **NBS**

The workshop will discuss PerkinElmer Health Science's newly launched services for new and emerging newborn screening disorders such as Pompe, MPS I, and X-ALD. The emerging disorder discussion will focus on confirmation testing - NextGen Sequencing Services available for Lysosomal Storage Disorders (LSDs)

Speaker(s): **Fred Meindl**, Market Development Manager, Next Gen Sequencing, PerkinElmer

PerkinElmer • Nambe/Navajo**Speciation on NexION ICP-MS with Empower Software** **EH**

LRN-C labs utilize metal speciation in the CDC program. This workshop will present a detailed demonstration of PerkinElmer's new speciation software: Empower, available through a collaboration with Waters Corporation. Water's Empower is one of the most widely used and proven chromatography softwares on the market.

Speaker: **Nonie Danna**, Sr. Technical Support Specialist, Chromatography, PerkinElmer

QIAGEN • Santa Ana**Next Generation Sequencing and Bioinformatics Analysis of Bacterial and Viral Pathogens** **FS** **ID**

Solutions to sample prep, NGS sequencing and analysis of whole genomes and metagenomes will be presented. These include bioinformatics workflows for microbiome, bacterial outbreak, and influenza data analysis, as well as discussions of the corresponding results, including QC measures, taxonomy, Antimicrobial Resistance Genes, phylogenetic trees (k-mer or SNP-based), MLST patterns, vaccine and clade comparisons.

Speakers: **Cecille Boyson**, PhD, **David Michaels** and **Neha Jalan**, PhD, QIAGEN

Thermo Fisher Scientific • Isleta/Jemez**Advances in Detection and Quantitation of Emerging Contaminants in Drinking Water** **EH**

This Industry workshop will cover our full analytical capabilities for public health laboratories. The talk will focus on regulated methods and developments in nontargeted screening and quantitation.

Speaker: **Richard F. Jack**, PhD, Senior Director, Environmental and Industrial Markets, ThermoFisher Scientific

Thermo Fisher Scientific • Acoma**Molecular Solutions for Zika Response** **ID**

We will discuss both QPCR and Next Generation Sequencing Solutions for Zika testing. These talks will be focused on our Triplex DenV/ChikV/Zika assay as well as our Ampliseq Zika Test.

Speakers: **Junko Stevens**, QPCR Research and Development Leader, Thermo Fisher Scientific; **Abizar Lakdawalla**, Next Generation Sequencing Product and Applications Leader, Thermo Fisher Scientific; **Kirsten St. George**, MAppSc, PhD- Chief, Viral Diseases Wadsworth Center, NYSDOH

TUESDAY, JUNE 7, 2016

7:30 am – 5:30 pm

Registration

NE Exhibit Hall Prefunction

7:30 am – 8:30 am

Coffee and Lite Breakfast Foods

Lower Level West

8:00 am – 8:45am

Industry Workshops

Lower Level West

8:00 am – 9:30 am

Coffee

NE Exhibit Hall Prefunction

9:00 am – 10:30 am

Concurrent Sessions

Considerations for Implementing Emerging Technologies **PHPR**

La Cienega

(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 its function and importance of public health laboratory informatics programs
- Express 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

Moderators: Dave Boxrud, MS, Minnesota Department of Health

Kristy Kubota, MPH, Association of Public Health Laboratories

- Dave Boxrud, MS, Minnesota Department of Health
- Heather Carleton, PhD, MPH, Centers for Disease Control and Prevention

PulseNet: A Network with a Glorious Past and a Bright Future

Peter Gerner-Smidt, MD, ScD, Centers for Disease Control and Prevention

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

The Effects of Culture Independent Diagnostics Test on Public Health Laboratories

Dave Boxrud, MS, Minnesota Department of Health

Metagenomic Subtyping Methods for Public Health Surveillance of Enteric Bacteria

Heather Carleton, PhD, MPH, 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

Sponsored by Illumina, Inc.

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

Strengthening 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 officials. 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 G. Kaufman, 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? Next Gen Sequencing Techniques for Preparedness and Response to Waterborne Threats **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:

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

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

NGS Aspect to the Investigation into a *Legionella* Outbreak Linked to Cooling Towers

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

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, Centers for Disease Control and Prevention

Environmental Metagenomics: Developing Guidance for Environmental Laboratories Looking to Make Use of NextGen Sequencing Technology

Vince Hill, PhD, PE, Centers for Disease Control and Prevention

3:30 pm – 4:00 pm

Break in the Exhibit Hall

NE Exhibit Hall

Sponsored by Bio-Rad Laboratories

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

Sponsored by QIAGEN

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

Moderators: **Guisou Zarbalian**, MS, MPH, Association of Public Health Laboratories
Celia Hagan, MPH, Association of Public Health Laboratories

- **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
- **Ian Horste**, MPH, 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 exhibitors 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 Laboratories 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 – 5:00 pm

Concurrent Sessions

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

Main Ballroom East

(588-816-16 – 1.0 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 – 1.0 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, Massachusetts State Public Health Laboratory

FDA Large-Scale Assignments: Assessing Risk

Timothy McGrath, U.S. Food and Drug Administration

Blue Bell and Listeria: A Surveillance Success Story

Megan Davis, MS, South Carolina Bureau of Laboratories

Newsworthy Nuggets - USDA FSIS FERN Surveillance

Kristina McCallum, Colorado Department of Agriculture

PHL Competencies in Action **W**

Mesilla

(588-818-16 – 1.0 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**
- **Lorelei Kurimski, MS, State Hygienic Laboratory at the University of Iowa**
- **Marty Soehrlen, PhD, MPH, Michigan Department of Health and Human Services**

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

Ruidoso/Pecos

(588-819-16 – 1.0 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

Save the Date!

2017 APHL Annual Meeting

Providence, RI | June 11-14, 2017



THURSDAY, JUNE 9, 2016

7:30 am – 12:45 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
- **Billie Juni**, MS, Minnesota Department of Health

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, MT(ASCP), Virginia Division of Consolidated Laboratory Services

EUAs, LDTs, and Zika Response: Challenges for Public Health Laboratories, FDA and CDC **PO**

Mesilla

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

This session will use the ongoing Zika response as a case study to highlight regulatory gaps and challenges public health laboratories face as infectious diseases emerge. In light of FDA's pending guidance to regulate laboratory developed tests, APHL has voiced concerns over the need to provide enforcement discretion in the event of a public health emergency where flexibility to an evolving situation is necessary. While the emergency use authorization (EUA) process is necessary and useful in an infectious disease response, the Zika outbreak has highlighted significant gaps. This session will discuss the EUA process at FDA and CDC and give the perspective of a state and local public health laboratory.

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

- Describe the EUA regulatory process at FDA
- Discuss the EUA development process at CDC
- Explain the regulatory challenges public health laboratories face as infectious disease emerge

Moderator: Kerry Buchs, MHA, MT(ASCP), Philadelphia Public Health Laboratory

FDA Perspective

Alberto Gutierrez, PhD, U.S. Food and Drug Administration

CDC Perspective

Michael Shaw, PhD, Centers for Disease Control and Prevention

State Public Health Laboratory Perspective

Grace Kubin, PhD, Texas Department of State Health Services

Local Public Health Laboratory Perspective

Jennifer Rakeman, PhD, New York City Department of Health and Mental Hygiene,
Public Health Laboratory

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**
- **Michelle Cagley, PE, Tennessee Valley Authority**
- **Twila Kunde, MPH, MBA, New Mexico Department of Health**
- **Dennis McQuillan, New Mexico Environment Department**
- **Miriam Wamsley, MWR, New Mexico Department of Health**

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 State University

Thinking Strategically About Your Lab's Public Communication

Kirk Englehardt, MPA, University of Tennessee at Chattanooga

12:30 pm

Meeting adjourns

1:30 pm – 3:30 pm

Optional tour of the New Mexico State Public Health Laboratory

Prior sign-up is required.

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Awards Breakfast



Welcome Reception



Meeting Mobile App



Hotel Key Cards



Afternoon Break



General Conference Support



Morning Coffee Break



Water Bottles



Flash Drives



Tweet & Greet Contest

The exhibit hall will be all atwitter when you visit the vendors and participate in the Tweet & Greet Contest! Play for the chance to win a \$100 gift card in addition to the Exhibit Hall Raffle. Whether you're an experienced tweeter or a novice, playing this game is easy! See details, instructions and official rules in the totebag. Follow @APHL for more information.

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Exhibitors

Exhibit Hall Schedule

Monday, June 6	3:30 pm – 7:00 pm	Hall Open
	3:30 pm – 4:00 pm	Afternoon Break
	5:30 pm – 7:00 pm	Welcome Reception
	6:00 pm – 6:30 pm	Poster authors available for questions
Tuesday, June 7	10:00 am – 6:00 pm	Hall Open
	10:30 am – 11:00 am	Morning Break
	12:00 pm – 2:00 pm	Lunch (box lunch provided)
	3:30 pm – 4:00 pm	Afternoon Break
	5:00 pm – 6:00 pm	Networking Reception
Wednesday, June 8	10:00 am – 2:00 pm	Hall Open
	10:30 am – 11:00 am	Morning Break
	12:30 pm – 2:00 pm	Lunch (on your own)
	1:00 pm – 1:30 pm	Poster authors available for questions
	1:30 pm – 2:00 pm	Raffle Drawing

Exhibit Hall Raffle

Visit with the vendors and win prizes! Take the exhibit raffle card from your totebag and visit each exhibit booth. Ask one of the booth personnel to sign their initials in the box corresponding to their booth number. When all of the boxes are filled, turn in the card at the registration desk. Cards must be turned in at the registration desk no later than 1:00 pm on Wednesday, June 8. Be sure to include your name on the card. Winners of the prizes will be announced starting at 1:30 pm on Wednesday in the exhibit hall. You must be present to win.

Prizes include the following:

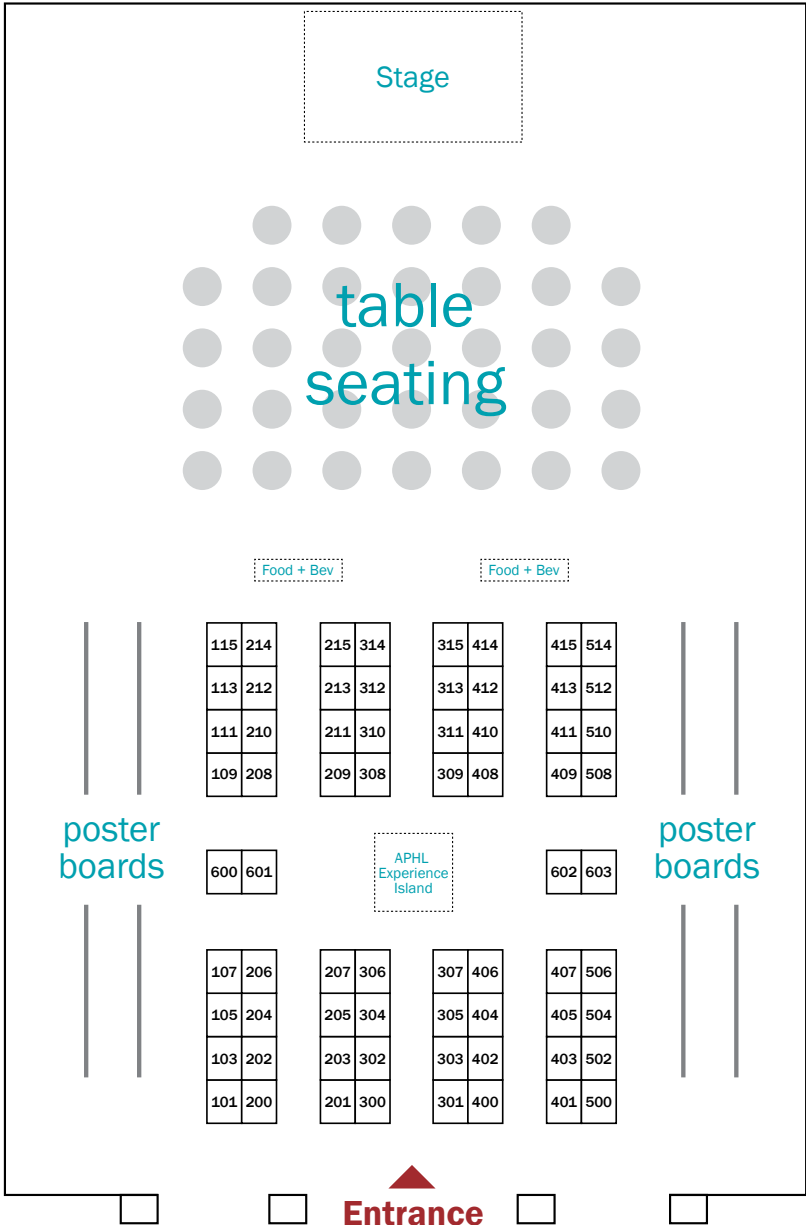
- Two coach airline tickets on Delta to anywhere in the continental US (compliments of APHL)
- \$100 Amazon.com gift card (compliments of BtB Software, Inc.)
- Amazon Fire HD 6 Tablet (compliments of STACS DNA)
- One complimentary registration to the 2017 APHL Annual Meeting (compliments of APHL)
- \$100 in gift cards (compliments of an appreciative exhibitor)
- Apple TV (compliments of WorkingBuildings)
- \$100 Visa gift card (compliments of MediaLab)
- One coach airline ticket on Delta to anywhere in the continental US (compliments of APHL)
- \$100 Amazon.com gift card (compliments of Germfree Laboratories)
- Choice of any ABSA 2 hour webinar (compliments of ABSA International)
- Fitbit Charge HR (compliments of APHL)
- \$100 Visa gift card (compliments of Psyche Systems Corporation)
- One coach airline ticket on Delta to anywhere in the continental US (compliments of APHL)

APHL Staff and exhibitors are not eligible. Legal notice: Winners are responsible for any taxes that may be due on their prizes. Please consult your tax advisor for details.

EXHIBIT BOOTHS BY NUMBER

101	inBios International	311	Horizon Technology, Inc.
103	CDC/NCEZID	312	MediaLabs, Inc.
105	Promega Corporation	313	QIAGEN
107	ChemWare, LLC	314	Thermo Fisher Scientific
109	Qualtrax, Inc.	315	Worldwide Diagnostics
111	CDC/Federal Select Agent Program	400	HDR
113	Quip Laboratories, Inc.	401	BD Diagnostics
115	Germfree Laboratories, Inc.	402	Healthpac Computer Systems
200	Art's Way Scientific, Inc.	403	GenMark DX
201	Bio-Rad Laboratories	404	Waters Corporation
202	Magellan Diagnostics, Inc.	405	MedMira
203	Streck	406	Luminex Corporation
204	A2LA	407	Cepheid
205	STACS DNA	408	Orchard Software Corp.
206	Aperionics	409/411	Fujirebio US
207	Biotage	410	SCIEX
208	Quantabio	412	EUROIMMUN US
209	BtB Software, LLC	413	LabWare, Inc.
210	High-Purity Standards, Inc.	414	Illumina
211	ABSA International	415	ClorDiSys Solutions, Inc.
212	Promium	500	Psyche Systems Corporation
213	BioFire Diagnostics, Inc.	502	RURO, Inc.
214	Chembio Diagnostics, Inc.	504	Agilent Technologies
215	bioMerieux, Inc.	506	Applied Maths, Inc.
300	Abbott Laboratories	508	Genial Compliance System/ Rainbow Scientific
301/303	PerkinElmer	510	MAXAIR Systems
302	Abbott Informatics	512	Fry Laboratories, LLC
304	Bruker	514	Emory Genetics Laboratory
305/307	Roche Diagnostics	600	ASPYRA, LLC
306	Puritan Medical Products Co.	601	Arlington Scientific, Inc.
308	National Jewish Health	602	Meridian Bioscience, Inc.
309	Hologic	603	Pro-Lab Diagnostics
310	WorkingBuildings		

EXHIBIT HALL FLOOR PLAN



Exhibitors

NE Exhibit Hall Prefunction

LIST OF EXHIBITORS

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www.a2la.org

A2LA is a multi-discipline accreditation body with over 35 years of experience. A2LA offers internationally recognized ISO/IEC 17025 accreditation of food testing laboratories. The ISO/IEC 17025 accreditation criteria, together with optional discipline-specific requirements, provide critical assurance that the testing performed in accredited laboratories has been held to the highest standards.

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Abbott Informatics helps laboratories around the world achieve analytical, regulatory and business objectives with informatics solutions. STARLIMS Laboratory Information Management Systems allow laboratories to seamlessly integrate and analyze data across instruments, sites and systems. STARLIMS solutions put powerful data management a click away, no matter how you grow your enterprise.

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Abbott is a global leader for in-vitro diagnostics and offers a broad range of innovative instruments and assays for public health labs. Our focus area is infectious disease testing where we offer both immunoassay and molecular assays including our fourth generation HIV diagnostic test, HIV-1 viral load assay, Viroseq HIV-1 Genotyping System and Chlamydia/Gonorrhea testing.

ABSA International

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1200 Allanson Rd., Mundelein, IL 60067 • 847.949.1517

www.absa.org

ABSA International (American Biological Safety Association) was founded in 1984 to serve the growing needs of biosafety professionals internationally. ABSA's core purpose is to promote and expand biosafety expertise through training, the annual biosafety conference, publications, professional networking, biosafety resources, advocacy, laboratory accreditation and professional credentials.

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www.agilent.com

Agilent Technologies is a worldwide provider of GC, LC, MS and Spectroscopy instruments, technologies, related consumables, support, services, and workflow solutions that enable labs to analyze, confirm and quantify substances of interest with confidence while maintaining the most stringent laboratory practices, from sample preparation to final report.

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www.aperiomics.com

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bioMerieux provides diagnostic solutions (reagents, instruments, software) which determine the source of disease and contamination to improve patient health and ensure consumer safety. Its products are used for diagnosing infectious diseases and providing high medical value results for cancer screening and monitoring and cardiovascular emergencies.

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**Centers for Disease Control and Prevention
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www.selectagents.gov

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**Centers for Disease Control and Prevention
National Center for Emerging and Zoonotic Infectious Diseases**

1600 Clifton Road, Atlanta, GA 30329 • 404.626.6188

www.cdc.gov/ncezid/

Booth 103

CDC's National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) works to protect people at home and around the world from emerging and zoonotic infectious diseases. NCEZID helps state and local laboratories build capacity so they can rapidly detect, respond to and prevent outbreaks of infectious diseases.

Cepheid

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www.cepheid.com

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Gold Member

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Chembio Diagnostic Systems, Inc.

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www.chembio.com

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Germfree designs, engineers and manufactures laboratory equipment, hospital pharmacy equipment and turnkey mobile and modular labs. Germfree's Class III Biosafety Cabinets provide containment in the world's most advanced laboratories. Germfree systems have been purchased by more than 6000 institutions and companies in the U.S. and 60 other countries worldwide.

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www.highpuritystandards.com

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www.hologic.com

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www.inbios.com

InBios develops and manufactures high quality immunodiagnostic products with superior performance for infectious diseases. Products include the FDA cleared West Nile and Dengue ELISAs. Assays transitioning to market include Chikungunya and Zika ELISAs. The company's exceptional ability to scale up in crisis was highlighted during the West Nile outbreak in 2012.

LabWare, Inc.**Booth 413**

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www.labware.com

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www.luminexcorp.com

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www.medmira.com

MedMira is a developer of Rapid Vertical Flow Technology and testing solutions. The Company's Reveal G4 rapid HIV test delivers fast, accurate results in laboratory and point-of-care settings using whole blood, serum or plasma specimens.

Meridian Bioscience, Inc.**Booth 602**

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www.meridianbioscience.com**National Jewish Health****Booth 308**

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www.njlabs.org

National Jewish Hospital Advanced Diagnostic Laboratories is CAP, CLIA and CAP15189SM certified with decades of experience developing mycobacteriology, infectious disease and molecular diagnostic tests. We have a passion for science, new therapies and high quality laboratory tests that transform patient lives while providing unparalleled clinical expertise and diagnostic testing.

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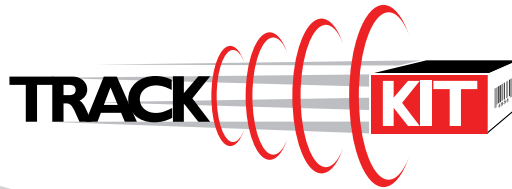
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Panel Sample Pre-treatment Requirement	Reconstitution of lyophilised material
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P-001

New Mexico Scientific Laboratory Division Response to the Gold King Mine Spill, August 2015

R. Fuentes, C. Markham, A. Sanchez and F. See, Scientific Laboratory Division, Albuquerque, NM

Presenter: Ray Fuentes, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9032, Email: ray.fuentes@state.nm.us

P-002

Laboratory and Biosafety Overview of Ebola Preparedness in the State of New Mexico

L. De Haro¹, H. Simpson², S. Master³; ¹Scientific Lab Division, Albuquerque, NM, ²New Mexico Department of Health, Santa Fe, NM, ³New Mexico Department of Health, Albuquerque, NM

Presenter: Leyma De Haro, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9034, Email: leyma.deharo@state.nm.us

P-003

The Importance of Chromogenic Agar and a Dilution Series for the Recovery and Isolation of STEC in Broth

N. Espinoza, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM

Presenter: Nicole Espinoza, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9127, Email: nicole.espinoza@state.nm.us

P-004

Francisella tularensis Isolated from the Liver of Guam Kingfisher

W. Arellano, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM

Presenter: Windy Arellano, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9137, Email: windy.arellano@state.nm.us

P-005

Project Collaboration with the Office of Medical Investigator to Improve Culture Methods to Aid in Cause of Death Investigation

L. Onischuk¹, N. Espinoza¹, W. Arellano¹, M. Martinez¹, V. Singh²; ¹New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, ²New Mexico Office of the Medical Investigator, Albuquerque, NM

Presenter: Mary Martinez, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9128, Email: marye.martinez2@state.nm.us

P-006

A Case of Active Pulmonary TB Treatment Failure: How Public Health, Reference and Clinical Laboratories Contributed to the Investigation

P. Morden, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM

Presenters: Pam Morden, Greg Szklarz and Rey Griego, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9126, Email: pam.morden@state.nm.us

P-007

Laboratory Developed Real Time PCR Assays for the Rapid Identification of MTBC and NTM Species

C. Phelps, A. Treloar, J. Pierce, K. Watson, G. Szklarz, R. Griego, K. Pekso, L. Davidson, J. Pettegrew, L. Onischuk and P. Leonard, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM

Presenter: Lisa Davidson, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Email: lisa.davidson@state.nm.us

P-008

Rapid Identification of Bacteria by MALDI-TOF in the Land of the Flea, Home of the Plague

D. Acosta K. Pesko, C. McClelland, C. Phelps, A. Treloar, N. Espinoza, L. Onischuk and P. Leonard, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM

Presenter: Celina Phelps, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Email: celina.phelps@state.nm.us

P-009

Next Generation Sequencing of RNA for Infectious Disease Diagnosis: SPIDR-WEB implementation for Clinical Samples

K. Pesko¹, A. Hatch², C. Gleasner², K. McMurry², P. Chain², J. Gans², P. Leonard¹, M. Vuyisich²; ¹New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, ²Los Alamos National Laboratory, Los Alamos, NM

Presenter: Kendra Pesko, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Email: kendra.pesko@state.nm.us

P-010

Molecular Epidemiology of Rabies Virus in New Mexico: Identification of Novel Variants and their Associated Hosts

A. Aragon¹, M. Breckenridge¹, K. Pesko¹, R. Condori², A. Wadhwa², G. Emerson², M. Maudlin², J. Doty², D. Carroll², R. Wallace², Y. Li², M. Reynolds², V. Olson², A. Velasco-Villa², P. Ettestad², P. Leonard¹; ¹New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, ²Centers for Disease Control and Prevention, Atlanta, GA

Presenter: Adam Aragon, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9124, Email: adam.aragon@state.nm.us

P-011

The Art and Science of Effective Communication

S. Nicoletto, K. Gill and S. Master, New Mexico Department of Health, Albuquerque, NM

Presenter: Sharon Master, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9122, Email: sharon.master@state.nm.us

P-012

Listeria monocytogenes in Raw Pet Food Results in an FDA Recall

J. Hollander, N. Espinoza, K. Lockey and P. Torres, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM

Presenter: Jennifer Hollander, New Mexico Dept. of Health, Scientific Laboratory Division, Albuquerque, NM, Phone: 505.383.9131, Email: jennifer.hollander@state.nm.us

P-013

Performance of the Alere Determine™ HIV-1/2 Ag/Ab Combo Rapid Test in the Miami Health Department STD Clinic: A Review of the First 11 Months of Use

O. Ponomareva, M. Vasquez and D. Escalona, Florida Department of Health - Miami-Dade County, Miami, FL

Presenter: Olga Ponomareva, Florida Department of Health - Miami-Dade County, Miami, FL, Phone: 305.575.5035, Email: olga.ponomareva@flhealth.gov

P-014

The Northern Plains Consortium Emerging Leaders Program

A. Dusko¹, S. Anderson¹, K. Baker¹, D. Hoffman², T. Hoke³, K. Schwarzkopf³, E. White⁴, M. Stevenson⁵; ¹Montana DPHHS Laboratory Services Bureau, Helena, MT, ²South Dakota Public Health Laboratory, Pierre, SD, ³North Dakota Public Health Laboratory, Bismarck, ND, ⁴Wyoming Public Health Laboratory, Cheyenne, WY, ⁵Idaho Bureau of Laboratories, Boise, ID

Presenter: Michael Stevenson, Idaho Bureau of Laboratories, Boise, ID, Phone: 208.334.0569, Email: stevensm@dhw.idaho.gov

P-015

Lean in the Chemistry Laboratory? Yes You Can!

J. Madlem¹, R. Beebe², C. Grimes², C. Hostetter², M. Teachout², S. Dearth², P. Zillinger²; ¹Indiana State Department of Health Laboratories, Indianapolis, IN, ²Indiana State Department of Health, Indianapolis, IN

Presenter: Jyl Madlem, Indiana State Department of Health Laboratories, Indianapolis, IN, Phone: 317.921.5574, Email: jmadlem@idsh.in.gov

P-016

The Indiana Laboratory System: Outreach and Training for Environmental Partners

S. Matheson, J. Madlem and M. Glazier, Indiana State Department of Health Laboratories, Indianapolis, IN

Presenter: Shelly Matheson, Indiana State Department of Health Laboratories, Indianapolis, IN, Phone: 317.921.5890, Email: smatheson@isdh.in.gov

P-017

Increase in Listeria Isolates in Indiana

J. Yeadon-Fagbohun, M. Kremholz, T. Hey, R. Gentry and J. Lovchik, Indiana State Department of Health Laboratory, Indianapolis, IN

Presenter: Jamie Yeadon-Fagbohun, Indiana State Department of Health Laboratory, Indianapolis, IN, Phone: 317.921.5853, Email: jhadley@isdh.in.gov

P-018

Visualize Your Informatics Roadmap - Using the Informatics Self-Assessment Tool

K. Higginbotham¹, W. Andrews², N. Dorsch; ¹Alabama Bureau of Clinical Laboratories, Montgomery, AL, ²Virginia Division of Consolidated Laboratory Services, Richmond, VA, ³Orchard Software Corp., Carmel, IN

Presenter: Keith Higginbotham, Alabama Bureau of Clinical Laboratories, Montgomery, AL, Phone: 334.206.7040, Email: keith.higginbotham@adph.state.al.us

P-019

Wadsworth Center Master's Degree in Laboratory Science: 4 Years Strong

D. Kay, K. Chou, A. Fayo, L. Mingle, K. Musser, M. Perry and C. Egan, Wadsworth Center, New York State Department of Health, Albany, NY

Presenter: Denise Kay, Wadsworth Center, New York State Department of Health, Albany, NY, Phone: 518.474.7610, Email: denise.kay@health.ny.gov

P-020

A Comprehensive Testing Approach to Detect and Characterize Legionella pneumophila serogroup 1 in Autopsy Specimens During a Large New York City Outbreak

E. Nazarian¹, D. Baker¹, J. Kornblum², W. Lainhart¹, P. Lapierre¹, E. Lee³, Y. Lin², K. McCubbin Lackey⁴, L. Mingle¹, K. Mitchell¹, I. Rubenstein², A. Saylor¹, I. Scordi-Bello⁴, M. Shudt¹, L. Thompson¹, Y. Zhu¹, J. Rakeman-Cagno², D. Weiss³, K. Musser¹; ¹Wadsworth Center, Albany, NY, ²New York City Public Health Laboratory, New York, NY, ³New York City Department of Health and Mental Hygiene, Queens, NY, ⁴Office of Chief Medical Examiner, New York, NY

Presenter: Elizabeth Nazarian, Wadsworth Center, Albany, NY, Phone: 518.474.2820, Email: Elizabeth.nazarian@health.ny.gov

P-021

The Northern Plains Laboratory Consortium and Emerging Leader Programs Address Regional Needs

D. Gibson¹, A. Dusko¹, C. Ball², C. Massen³, T. Southern⁴, J. Ridderhof⁵, S. Bus⁶, S. Zanto¹; ¹Montana Laboratory Services Bureau, Helena, MT, ²Idaho Bureau of Laboratories, Boise, ID, ³North Dakota Department of Health, Bismarck, ND, ⁴South Dakota Public Health Laboratory, Pierre, SD, ⁵Centers for Disease Control and Prevention, Atlanta, GA, ⁶Wyoming Public Health Laboratory, Cheyenne, WY

Presenter: Debbie Gibson, Montana DPHHS Laboratory Services Bureau, Helena, MT, Phone: 406.444.5970, Email: debgibson@mt.gov

P-022

An Approach to Implementing Culture-Independent Testing of Nationally Reportable Bacterial Causes of Gastroenteritis

R. Fowler^{1,2}, C. Murphy², P. Fey¹, Peter Iwen²; ¹University of Nebraska Medical Center, Omaha, NE, ²Nebraska Public Health Laboratory, Omaha, NE USA

Presenter: Randy Fowler, University of Nebraska Medical Center, Omaha, NE, Nebraska Public Health Laboratory, Omaha, NE, Email: randy.fowler@unmc.edu

P-023

Diagnosis and surveillance of hepatitis C virus infection using next-generation sequencing

J. Parker, Alaska State Public Health Virology Laboratory, Fairbanks, AK

Presenter: Jayme Parker, Alaska State Public Health Virology Laboratory, Fairbanks, AK, Phone: 907.371.1005, Email: jayme.parker@alaska.gov

P-024

Quantitative Determination of Cannabinoids in Cannabis Plant Material Using High Performance Liquid Chromatography – Diode Array UV - Mass Spectrometry (Trap) Detector

B. Patel, D. Wene, S. Hom, T. Fan and B. Parsa, New Jersey Public Health and Environmental Laboratories, West Trenton, NJ

Presenter: Bhupendra Patel, New Jersey Public Health and Environmental Laboratories, West Trenton, NJ, Phone: 609.530.2633, Email: bhupendra.patel@doh.nj.gov

P-025

The Relationship Between Newborn Screening Unsatisfactory Specimens and Unsatisfactory Results

M. Schachter^{1,2}, S. Shone¹; ¹Association of Public Health Laboratories, Silver Spring, MD, ²New Jersey Department of Health, Ewing, NJ 08628 USA

Presenter: Miriam Schachter, New Jersey Department of Health, Ewing, NJ,
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P-026

The ELC Risk Assessment Experience

M. Owen¹, R. Goswami², V. Moter³, B. Hiatt¹, S. LaCroix¹; ¹Washington State Public Health Laboratory Shoreline, WA, ²Association of Public Health Laboratories, ³Centers for Disease Control and Prevention, Atlanta, GA

Presenter: Steve LaCroix, Washington State Public Health Laboratory Shoreline, WA,
Phone: 206.418.5437, Email: steve.lacroix@doh.wa.gov

P-027

Development of Real-Time PCR Methods for Surveillance of Cryptosporidium and Cyclospora in Fresh Produce in Iowa

J. Bai¹, N. Hall¹, S. Mandernach², L. DesJardin¹; ¹State Hygienic Laboratory at the University of Iowa, Coralville, IA, ²Iowa Department of Inspection and Appeals, Des Moines, IA

Presenter: Lucy DesJardin, State Hygienic Laboratory at the University of Iowa, Coralville, IA, Phone: 319.335.4339, Email: lucy-desjardin@uiowa.edu

P-028

A Survey of Heavy Metal Exposure in High-Risk Childhood Lead Program Populations in Iowa

D. Simmons, N. Bullock and B. Wels, State Hygienic Laboratory at the University of Iowa, Ankeny, IA

Presenter: Donald Simmons, State Hygienic Laboratory at the University of Iowa, Ankeny, IA, Phone: 319.335.4500, Email: donald-simmons@uiowa.edu

P-029

Antimicrobial Susceptibility Profiles of *Shigella sonnei* Isolates Circulating in Colorado in 2015

E. Travanty and H. Maguire, Colorado Department of Public Health and Environment, Denver, CO

Presenter: Emily Travanty, Colorado Department of Public Health and Environment, Denver, CO, Phone: 303.692.3094, Email: emily.travanty@state.co.us

P-030

Multi-State Investigation of Antimicrobial Resistance Genes in U.S. Drinking Water

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Presenter: Windy Tanner, University of Utah, Salt Lake City, UT, Phone: 801.965.2400, Email: windy.tanner@hsc.utah.edu

P-031

Local Laboratory Committee - Who We Are and What We Do

D. Gaskins, Association of Public Health Laboratories, Silver Spring, MD

Presenter: Akin Babatola, MS, Santa Cruz Environmental Health Laboratory, Santa Cruz, CA, Phone: 831.420.6045, Email: ababatola@cityofsantacruz.com

P-032

A Collaborative Laboratory Response to Legionnaires' Disease in New York City

S. Hughes¹, L. Kornstein¹, J. Kornblum¹, J. Novck¹, I. Rubinstein¹, Y. Lin¹, E. Nazarian², P. Lapierre², N. Dumas², A. Kidney², T. Passaretti², K. Musser², J. Rakeman¹; ¹New York City Department of Health & Mental Hygiene Public Health Laboratory, New York, NY, ²Wadsworth Center, New York State Department of Health, Albany, NY

Presenter: Scott Hughes, New York City Department of Health & Mental Hygiene, New York, NY, Phone: 212.447.6121, Email: shughes@health.nyc.gov

P-033

Impact of a Local Public Health Laboratory as a First Responder in Vaccine Preventable Disease Investigations: Milwaukee – 2015

S. Gradus¹, J. Navidad¹, M. Khubbar¹, B. Krause¹, B. Pfothenhauer¹, N. Leigh¹, S. Coffaro², J. LeStarge², J. Katrichis², M. Stanley², P. Hunter², S. Bhattacharyya¹; ¹City of Milwaukee Health Department Laboratory, Milwaukee, WI, ²City of Milwaukee Health Department, Milwaukee, WI

Presenter: Steve Gradus, City of Milwaukee Health Department Laboratory, Milwaukee, WI, Phone: 414.286.3526, Email: sgradu@milwaukee.gov

P-034

Screening a High Risk Population for Trichomonas vaginalis at a Local Public Health Laboratory Using a NAAT Assay to Improve Sexually Transmitted Infection Case Management Practices

S. Bhattacharyya¹, M. Khubbar¹, W. Genous², E. Osuala², B. Krause¹, J. Lokken¹, J. Navidad¹, M. McCarron², C. Silveyra², I. Reitl², P. Hunter^{2,3}, S. Gradus¹; ¹City of Milwaukee Health Department Laboratory, Milwaukee, WI, ²City of Milwaukee Health Department - Keenan Health Center, Milwaukee, WI, ³City of Milwaukee Health Department, Milwaukee, WI

Presenter: Sanjib Bhattacharyya, City of Milwaukee Health Department Laboratory, Milwaukee, WI, Phone: 414.286.5702, Email: sbhatt@milwaukee.gov

P-035

Evaluation of HIV 4th Generation Reflex Testing After Rapid Oral Fluid HIV 1/2 Testing for a Local Health Department

L. Wolf, Louisville Metro Health Department Laboratory, Louisville, KY

Presenter: Leslie Wolf, Louisville Metro Health Department Laboratory, Louisville, KY, Phone: 502.574.6540, Email: leslie.wolf@louisvilleky.gov

P-036

Review of Clinical and Non-clinical Features of Active TB Cases 2012-2014, Jefferson County, KY

L. Wolf, Louisville Metro Health Department Laboratory, Louisville, KY

Presenter: Leslie Wolf, Louisville Metro Health Department Laboratory, Louisville, KY, Phone: 502.574.6540, Email: leslie.wolf@louisvilleky.gov

P-037

Urban Garden Soil Testing

A. Olson, Marion County Public Health Department, Indianapolis, IN

Presenter: Andrea Olson, Marion County Public Health Department, Environmental Public Health Laboratory, 3838 North Rural Street, Indianapolis, IN 46205, Email: aolson@marionhealth.org

P-038

Standardization of Gram Stain Method across Laboratory Areas

J. Jai, D. Kennedy and J. Mikell, Marion County Public Health Laboratory, Indianapolis, IN

Presenter: Jeanine Mikell, Marion County Public Health Laboratory, Indianapolis, IN, Phone: 317.221.4673, Email: jmikell@marionhealth.org

P-039

Surveillance of Carbapenem-resistant Enterobacteriaceae in Los Angeles County

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P-040

A Comparison of Three Treponemal Assays

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P-041

“Riddle Me This Batman! Who Identifies Unsafe and Misrepresented Food/Feed Products Every Day?” – Riddler “That’s an Easy One, Riddler!! The Public Health Laboratorian!” – Batman

Y. Salfinger¹, R. Pyle¹, C. Mangione², K. Larson¹; ¹Association of Public Health Laboratories, Silver Spring, MD, ²New York State Department of Agriculture and Markets, Albany, NY

Presenter: Cynthia Mangione, New York State Department of Agriculture and Markets, Albany, NY, Phone: 518.549.0135, Email: cynthia.mangione@agriculture.ny.gov

P-042

Development of a Career-spanning Competency-based Training Curriculum Framework for Governmental Food and Feed Laboratories

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P-043

Laboratory Accreditation is a Key Building Block of an Integrated Food/Feed Safety System

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P-044

Test Characteristics of Xpert HPV and OncoE6 for Point-of-care Cervical Cancer Screening among HIV-infected Women in Zambia

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P-045

Evaluation of MALDI-TOF MS for the Identification of Isolates of Vibrio Species from Clinical and Environmental Sources

L. Bourassa¹, M. Santovenia², J. Jackson², M. Turnsek², C. Tarr², B. Hiatt³, W. Glover³; ¹University of Washington Medical Center, Seattle, WA, ²Centers for Disease Control and Prevention, Atlanta, GA, ³Washington State Department of Health, Shoreline, WA

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P-046

Sampling and Characterizing Airborne Pollen over Barbados

E. Blades, University of the West Indies, Bridgetown, Barbados

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P-047

4th Generation Rapid HIV Testing Can Expedite Linkage to Care: A New Efficient Diagnostic Model

S. Racine Brzostek, E. Marks, M. Narlieva and A.S. Fox, Montefiore Medical Center/ Albert Einstein College of Medicine, Bronx, NY USA

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P-048

Detecting Oseltamivir-resistant Influenza Viruses in Respiratory Specimens using iART: An Ongoing Collaborative Project

V.P. Mishin¹, E.N. Hodges¹, K.C. Weidemaier², E. Fallows², K. Dolan², R. Jacobson², W. Kramp³, R. Shively³, M. Adamczyk¹, W.A. Brooks⁴, A.M. Fry¹, L.V. Gubareva¹; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²BD Technologies, Research Triangle Park, NC, ³Biomedical Advanced Research and Development Authority (BARDA), U.S. Department of Health and Human Services, Washington, DC, ⁴International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh

Presenter: Vasily Mishin, Centers for Disease Control and Prevention, Atlanta, GA, Phone: 404.639.3978, Email: vmishin@cdc.gov

P-049

Strategies to Support Post-market Evaluation of Commercial Diagnostic Tests for Influenza – CDC/FDA Collaboration

S. Lindstrom¹, C. Warnes¹, L. Malapati², J. Villanueva¹, D. Jernigan¹, L. Li³, C. Gaffey³, T. Fedlblyum³; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²Leidos, Atlanta, GA, ³U.S. Food and Drug Administration, Silver Spring, MD

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P-050

Building a National Biomonitoring Network

A. Mowbray¹, R. Degeberg², L. Romanoff¹; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²Association of Public Health Laboratories, Silver Spring, MD

Presenter: Amy Mowbray, Centers for Disease Control and Prevention, Atlanta, GA,
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P-051

Implementation of the Competency Guidelines for Public Health Laboratory Professionals: Moving Forward

R. Ned-Sykes¹, C. Johnson², E. Perlman², M.K. Glynn¹, L. Gillis³, J. Ridderhof¹; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²Association of Public Health Laboratories, Silver Spring, MD, ³Florida Department of Health, Miami, FL

Presenter: Renee Ned-Sykes, Centers for Disease Control and Prevention, Atlanta, GA,
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P-052

The Influenza Partner Portal – A Microsoft Dynamics-based Tool for Centralized Information Management at CDC

E. Guthrie¹, M. Hoelscher¹, D. Baker², C. Staats², V. Whitehurst², S. Ali², K. Juba², D. Jernigan¹, E. Newhaus¹; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²Booz Allen Hamilton, Atlanta, GA

Presenter: Erica Guthrie, Centers for Disease Control and Prevention, Atlanta, GA,
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P-053

CDC's National Report on Human Exposure to Environmental Chemicals: An Update

W. Onyenwe and M.E. Mortensen, Centers for Disease Control and Prevention, Atlanta, GA

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P-054

Development of the CDC Laboratory Leadership Service Program (LLS)

X. Liu, R. Ned-Sykes, J. Ridderhof, P. Simone, J. Bosch, J. Mott and M.K. Glynn, Centers for Disease Control and Prevention, Atlanta, GA

Presenter: Xin Liu, Centers for Disease Control and Prevention, Atlanta, GA,
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P-055

Influenza Molecular Diagnostic Performance Evaluation of International Laboratories: Assessing and Identifying Training Needs

L. Berman¹, L. Malapati², J. Wess³, L. Polansky¹, S. Lindstrom¹, A. Moen¹; ¹Centers for Disease Control and Prevention, Atlanta, GA, ²Leidos, Atlanta, GA, ³Batelle, Atlanta, GA

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P-056

Developing a Legionnaires' Disease Outbreak Laboratory Response Plan: Are You Ready?

A. Llewellyn, C. Lucas, E. Brown, N. Kozak-Muiznieks, J. Mercante, B. Raphael and J. Winchell, Centers for Disease Control and Prevention, Atlanta, GA

Presenter: Anna Llewellyn, Centers for Disease Control and Prevention, Atlanta, GA, Phone: 404.639.1538, Email: gif7@cdc.gov

P-057

Enhancing Analytical Preparedness and Response to Water Contamination Incidents

C. Wool, EPA Office of Water, Washington, DC and Oak Ridge Institute for Science and Education, Oak Ridge, TN

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P-058

Informatics Technical Assistance

R. Merrick¹, D. Sanderson¹, L. Cohen¹, V. Holley¹, L. Carlton¹, M. Kourbage²; ¹Association of Public Health Laboratories, Silver Spring, MD, ²J Michael Consulting, Atlanta, GA

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P-059

2015 Landscape of State Public Health Laboratories

J. Rosalez, D. Kim and M. Marsico, Association of Public Health Laboratories, Silver Spring, MD

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P-060

Creating the Conditions in which Public Health Laboratories Can Better Engage in Research

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P-061

Showcasing APHL Tools

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Presenter: Lorelei Kurimski, State Hygienic Laboratory at the University of Iowa, Coralville, IA, Phone: 319.335.4979, Email: lorelei-kurimski@uiowa.edu

P-062

New and Improved Member Resource Center

B. Juni¹, T. Theisen², B. Rej³, M. Celotti⁴, B. Su¹, M. Marsico¹, D. Kim¹; ¹Association of Public Health Laboratories, Silver Spring, MD, ²Saginaw County (Michigan) Public Health Laboratory, Saginaw, MI, ³New York State Department of Health, Albany, NY, ⁴Vermont Public Health Laboratory, Colchester, VT

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P-063

The Public Health Laboratory System Database (PHLSD): A New Approach to Information Sharing

M. Marsico¹, J. Ridderhof², D. Kim¹, K. Breckenridge¹, R. Ned-Sykes², R. France³, J. Bennett⁴, D. Xia⁵; ¹Association of Public Health Laboratories, Silver Spring, MD, ²Centers for Disease Control and Prevention, Atlanta, GA, ³Florida Bureau of Public Health Laboratories, Tampa, FL, ⁴Lawrence Livermore National Laboratory, Livermore, CA, ⁵California Department of Public Health Laboratory, Richmond, CA

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P-064

The Future of Select Agent Research and Emerging Threat Testing in the US

T. Wolford, Association of Public Health Laboratories, Silver Spring, MD

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P-065

Emerging Technologies: Assuring Safety and Accuracy of MALDI-TOF Technologies

A. Pullman¹, J. Rudrik²; ¹Association of Public Health Laboratories, Silver Spring, MD, ²Michigan Department of Health and Human Services, Lansing, MI

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P-066

Enhancing Biosafety and Biosecurity in America's Public Health Laboratories

B. Hart, Association of Public Health Laboratories, Silver Spring, MD

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P-067

APHL and Abbott Laboratories Lean Workflow Studies in the Tennessee Public Health Laboratory

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Presenter: Paula Gibbs, MLS(ASCP), Tennessee Department of Health: Laboratory Services, Nashville, TN, Phone: 615.262.6364, Email: paula.l.gibbs@tn.gov

P-068

Pilot Project on the Return on Investment Tool

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P-069

National PHL Drug Susceptibility Testing Reference Center for Mycobacterium tuberculosis

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P-070

Nampula Central Hospital's LIMS Story: How Laboratory Information Management Systems Improve the Entire Hospital System

K. Shen¹, S. Kidane², R. Timperi¹; ¹Association of Public Health Laboratories, Silver Spring, MD, ²Association of Public Health Laboratories, Maputo, Mozambique

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P-071

State Legal Requirements for Submission of Enteric Isolates and Other Clinical Materials from Clinical Laboratories: A Review of State Approaches

K. Kubota¹, K. Larson¹, P. Elliott²; ¹Association of Public Health Laboratories, Silver Spring, MD, ²Logan Circle Policy Group, Potomac, MD

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P-072

Development of Interim Guidelines for the Submission of Enteric Pathogens from Positive Culture-Independent Diagnostic Test (CIDT) Specimens to Public Health

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P-073

Environmental Testing in State Laboratories: 2006-2015

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P-074

A Brave New World II: Navigating the Digital Age

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Presenter: Garrett Peterson, APHL Informatics Committee Chair, Madison, WI, Phone: 608.556.2214, Email: garrettp@yaharasoftware.com

P-075

How eLEXNET is Improving the Food Safety System

*L. Turner*¹, *R. Treadwell*², *V. Holley*³, *M. Kourbage*⁴, *S. Tadele*⁵, *J.P. Mivoyel*⁶; ¹Virginia

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P-076

Food Provenance Confirmation by Combined LCMS, GCMS and ICPMS and Statistical Analysis

R. Packer¹, E. Pruszkowski¹, K. Kuhr¹; ¹PerkinElmer, Shelton, CT, ²PerkinElmer, San Jose, CA

Presenter: Robert Packer, PerkinElmer, Shelton, CT, Phone: 203.402.1814, Email: robert.packer@perkinelmer.com

P-077

Detecting Antimicrobial Resistance Genes Directly from Sequence Data in the BaseSpace® Cloud with SEAR: Antibiotic Resistance

J. Patel, C. Teiling and K. Hoon, Illumina, Inc., San Diego, CA

Presenters: Clotilde Teiling and Kelly Hoon, Illumina, Inc., San Diego, CA, Phone: 858.518.7497, Email: cteiling@illumina.com

P-078

Consistency and Access with an Electronic Quality Management System

S. Obenauer, Qualtrax, Blacksburg, VA

Presenter: Sarah Obenauer, Qualtrax, Blacksburg, VA, Email: sobenauer@qualtrax.com

P-079

Board Certification for Laboratory Directors and Supervisors

M.S. Birenbaum¹, D.L. Smalley²; T. Schalue¹; ¹American Association of Bioanalysts, St. Louis, MO, ²American Esoteric Laboratories, Memphis, TN

Presenter: Tammie Schalue, PhD, HCLD/ELD/CC(ABB), American Association of Bioanalysts, St. Louis, MO, Phone: 314.241.1445, Email: tschalue@outlook.com

P-080

Developing a Liquid Chromatography-Mass Spectrometry (LC-MS) Library: An Example for Drinking Water Screening

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