

# 2015 APHL<sup>TM</sup> ANNUAL MEETING

and ninth government environmental laboratory conference

May 18–21, 2015  
Indianapolis  
Indiana Convention Center



***Performance  
Driven —  
Racing to  
Results***

## PRELIMINARY PROGRAM



[www.aphl.org/AM](http://www.aphl.org/AM)

[www.aphl.org](http://www.aphl.org)

**Join** your colleagues and other public health laboratory partners at the 2015 APHL Annual Meeting and Ninth Government Environmental Laboratory Conference.

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

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

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

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

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

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



# Meeting Location

The 2015 APHL Annual Meeting and Ninth Government Environmental Laboratory Conference will be held in downtown Indianapolis at the Indiana Convention Center. It is linked by overhead walkway to the headquarters hotel, the Westin Indianapolis. Both are located within easy walking distance of numerous restaurants, shops and the White River State Park which has walking/running paths, a museum and zoo.



# 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. The guide is listed below.

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

# Registration

Conference Registration Fee: \$525/member, \$650/Non-Member, \$150/Student

Preconference Workshop Registration Fee: \$95 each

Payment may be made by credit card or check.

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

# Hotel Accommodations

The headquarters hotel is The Westin Indianapolis, which is connected by skywalk to the convention center. It is located in the heart of the city and puts you in the middle of countless restaurants, bars, entertainment options and shops just outside the hotel's doors.

The conference room rate is \$150.00 (plus tax) per night for a single or double. There are a very limited number of rooms at the federal per diem rate. Reservations may be made by calling 800.228.3000 or 317.262.8100. Be sure to mention you are attending the "APHL Annual Meeting" to receive this rate. You may also reserve online. Check the website for links. Reservations must be made no later than April 15, 2015. This block may fill up quickly so be sure to make your reservation early. These rates are available three days before and after the meeting based on availability. One night's deposit is due when making a reservation but is refundable providing your cancellation is made more than 24 hours before check-in.

Westin Indianapolis Hotel, 50 S. Capitol Ave., Indianapolis, IN 46204, 317.262.8100, [www.westinindianapolis.com](http://www.westinindianapolis.com)

# Visit These Exhibitors! (as of March 6, 2015)

A2LA—American Association for Laboratory Accreditation	Calibrate, Inc.	HDR Architecture, Inc.	PathoGenetix
Abbott Informatics	Cepheid	Healthpac Computer Systems, Inc.	PerkinElmer
Abbott Laboratories	Chembio Diagnostic Systems, Inc.	Hettich Lab Technology	Promega Corporation
American Biological Safety Association	ChemWare, Inc.	Hologic	Promium
Aperiomics, Inc.	ClorDiSys Solutions, Inc.	Horizon Technologies	Puritan Medical Products Company
Applied-Maths, Inc.	Computer Aid, Inc.	Illuminia, Inc.	QIAGEN, Inc.
Art's Way Scientific, Inc.	Dovel Technologies	J. Michael Consulting	Qualtrax
BD Diagnostics	Esri	Luminex Corporation	Quanta BioSciences, Inc.
BioFire Diagnostics	Federal Select Agent Program/CDC	Magellan Diagnostics	Roche Diagnostics
BioMerieux	Fujirebio US	Nanosphere, Inc.	Thermo Fisher Scientific
Bio-Rad Laboratories	Genial Genetics/Rainbow Scientific	National Jewish Health	Trinity Biotech
Biotage	GenMark DX	Office Depot, Inc.	WorkingBuildings
Bruker Corporation	Global Biohazard Technologies, Inc.	OpGen, Inc.	Worldwide Diagnostics
		Orchard Software Corporation	
		Oxford Immunotec	

Contact information for these exhibitors and further details on the Annual Meeting may be found on the main conference website, [www.aphl.org/AM](http://www.aphl.org/AM).

# 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 14.5 contact hours by attending the entire conference. Attendance rosters must be signed in each attended session that credit is requested for and the P.A.C.E.® certificate must be signed and certified by APHL staff at the registration desk at the end of your time at the conference.

APHL is an approved provider of Certified in Public Health (CPH) Recertification Credits through the National Board of Public Health Examiners (NBPHE). Attendees have the opportunity to earn up to 11 hours of credit by attending the entire conference. CPH attendance rosters will be available and must be completed for each attended session in order for credit to be recognized by NBPHE. APHL will not issue certificates of attendance.



## Thank You to These Sponsors for Their Support!

Awards Breakfast



Welcome Reception



Hotel Key Cards



Morning Coffee  
Break (Wed)



General Conference  
Support



Corporate Sponsor

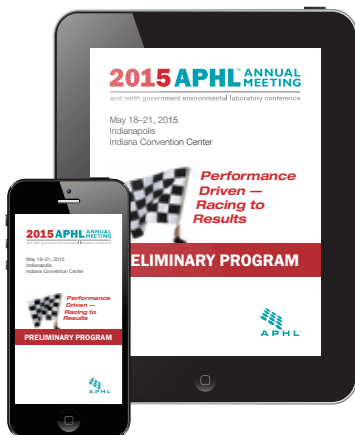


Sponsorship and exhibiting opportunities are available. For more information, contact Lori Richardson-Parr ([lori.richardson-parr@aphl.org](mailto:lori.richardson-parr@aphl.org) or 240.485.2792) or Terry Reamer ([terry.reamer@aphl.org](mailto:terry.reamer@aphl.org) or 240.485.2776).

## Enhance Your Experience With the Conference Mobile App

Available in April 2015 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 Indianapolis with nearby restaurant listings and mapping.
- Personalize your experience by tagging sessions, exhibitors, city destinations, and creating exportable notes.
- Receive alerts, reminders or changes about the conference on site in real time.
- Follow the APHL Blog daily conference summary and other social media from within the app.



## Special Events

### Preconference Workshops

**Monday, May 18, 8:00 am – 11:30 am**

Register separately for these workshops on The ELC Grant Process and Tools to Enhance Laboratory Biosafety and Biosecurity

### Welcome Reception

**Monday, May 18, 5:30 pm – 7:00 pm**

*Sponsored by Roche Diagnostics*

### Industry Workshops

**Tuesday, May 19, 7:30 am – 8:15 am**

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

### Keynote Speaker

**1:00 pm - 1:45 pm**

Thomas Burke, PhD, U.S. EPA

### Member Assembly

**Tuesday, May 19, 4:00 pm – 5:30 pm**

### Networking Reception

**Tuesday, May 19, 5:30 pm – 6:30 pm**

### Awards Ceremony and Breakfast

**Wednesday, May 20, 8:30 am – 10:00 am**

Celebrate your colleagues' achievements.

*Sponsored by Hologic*

### Exhibit Hall Raffle

**Wednesday, May 20, 1:30 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.

### Dr. Katherine Kelley Distinguished Lecture

**Wednesday, May 20, 2:00 pm – 3:00 pm**

Christopher J. Portier, PhD, Environmental Defense Fund

### Optional Tour–Indiana Public Health Laboratory

**Thursday, May 21, 1:00 pm – 3:00 pm**

## APHL Experience

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

Some of the previous demonstrations include:

- Biomonitoring Capabilities List
- Meeting Community Health Needs Through Environmental Laboratories
- Peer-to-Peer Tools to Achieve ISO 17025 Accreditation
- L-SIP Program
- LEI Online Tool and Other Resources
- NewSTEPs Data Repository and other NBS Websites
- Features and Protocols of the Infectious Disease Members-Only Webpage
- The NIST Tool: Rhapsody Integration Broker Route and Validation for Electronic Public Health Data
- Data Visualization Dashboard
- TB Core Curriculum and GC E-Test Online Training Modules
- Right Size Virologic Sample Size Calculators
- MicrobeNet Resource



## Consent to Use Photographic Images

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

# AGENDA OF EVENTS

## SUNDAY, MAY 17, 2015

4:00 pm – 7:00 pm

### Registration

Wabash Ballroom Foyer

## MONDAY, MAY 18, 2015

7:00 am – 6:00 pm

### Registration

Wabash Ballroom Foyer

8:00 am – 11:30 am

### Pre-Conference Workshops (separate registration required)

#### **The ELC Grant Process: “Keys” to a Strong Proposal to More Efficiently “Drive” Your Public Health Laboratory Program Funding** **FS**

Rooms 120/121

(588-825-15 – 3.0 contact hours for this session)

*This session is designed to assist members in understanding the changes to the Epidemiology and Laboratory Capacity (ELC) Cooperative Agreement Program and provide guidance on how best to apply for these funds in the future. APHL Members will share their experiences in receiving ELC funds in the previous cycle and using those funds to support infectious disease, food safety, and informatics goals. Leadership from CDC’s ELC office will present the latest information about the submission and review process and answer questions posed by the attendees.*

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

- Describe the ELC Cooperative Agreement Program process, its requirements, and available funding opportunities
- Discuss how peers have applied for and used ELC funds to support a variety of public health laboratory programs
- Create a grant proposal to apply for funding opportunities available through the ELC Program

**Moderator:** Shari Shea, MPH, Association of Public Health Laboratories

- **Alvin Schultz**, MSPH, ELC Program Coordinator, Centers for Disease Control and Prevention
- **Angelica O'Connor**, ELC Program Office, Centers for Disease Control and Prevention
- **Robyn Atkinson**, PhD, Director, Utah Unified Public Health Laboratory

## **Tools to Enhance Laboratory Biosafety and Biosecurity** P

**Rooms 122/123**

(588-826-15 – 3.0 contact hours for this session)

*The risk of a laboratory acquired infection is a reality for diagnostic, public health, research, and teaching facilities because of the potential for exposure to infectious agents. There are several tools to mitigate the risk including risk assessments, safety practices, training, competencies, and audits. The goal of this session is to provide the tools to build and enhance biosafety and biosecurity practices. This workshop will describe and review the components of the biosafety and biosecurity program, and provide templates and examples for use in the laboratories.*

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

- Assess their current biosafety and biosecurity program
- Describe their risk assessment process
- Explain the importance of incorporating biosafety competencies into the biosafety program and laboratory practices
- Adapt a risk assessment template for use in their laboratory
- Discuss the selection of safety practices applicable to their work place

**Moderator:** Michael A. Pentella, PhD, D(ABMM), William A. Hinton State Laboratory Institute

- **Michael A. Pentella**, PhD, D(ABMM), William A. Hinton State Laboratory Institute
- **Andrew C. Cannons**, PhD, HCLD(ABB), Florida Bureau of Public Health Laboratories–Tampa
- **Maureen Sullivan**, MPH, Minnesota Department of Health

**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 Indianapolis

Wabash Ballroom

### Moderators:

- **Dan Rice**, MS, DrPH, APHL President and Director, New York State Department of Agriculture and Markets Laboratory
- **Judith Lovchik**, PhD, D(ABMM), APHL President-Elect and Director, Indiana Public Health Laboratory
- **Jerome Adams**, MD, State Health Commissioner, Indiana Department of Health
- **Virginia Caine**, MD, County Health Director, Marion County Health Department
- **Scott Becker**, MS, Executive Director, Association of Public Health Laboratories

2:00 pm – 3:30 pm

## Plenary Session (Plenary #1)

Wabash Ballroom

### Laboratory Response to Ebola Virus Disease: Why Investing in Global Health Security is Important GH P

(588-800-15 – 1.5 contact hours for this session)

*The largest outbreak of Ebola in history continues its devastation in the West African countries of Sierra Leone, Liberia and Guinea. Thousands of people have died in these countries and the healthcare systems continue to struggle to respond to this epidemic. In the United States, two imported cases of Ebola with one death and two locally acquired cases greatly challenged the healthcare system. This session will focus on the international efforts to contain the current Ebola epidemic as well as the domestic response to selected cases and the future of implementing a global health security agenda.*

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

- Provide an overview of the 2014 Ebola Virus Disease Outbreak and the international response efforts
- Describe the first case of Ebola in the US and the value of a robust laboratory response system
- Discuss lessons learned for laboratory testing and care of Ebola patients
- Introduce the Global Health Security Agenda

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

## **The Role of Laboratories in Containing Ebola in West Africa**

Isatta Wurie, PhD, APHL Consultant, Sierra Leone

## **The First Case of Ebola in the U.S.**

Grace Kubin, PhD, Texas Department of State Health Services

## **Responding to Ebola and Managing Patient Care**

Peter C. Iwen, MS, PhD, D(ABMM), University of Nebraska Medical Center

## **Implementing the Global Health Security Agenda**

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

3:30 pm – 4:00 pm

### **Break in the Exhibit Hall**

Exhibit Hall C

3:30 pm – 7:00 pm

### **Exhibit Hall Open**

Exhibit Hall C

3:30 pm – 7:00 pm

### **Posters available for viewing in the exhibit hall**

Exhibit Hall C

4:00 pm – 5:30 pm

## **Concurrent Sessions (Breakout #1)**

### **The Road to ISO/IEC 17025 Accreditation: The Race to Improve Quality is On. How Do We Fuel Up for the Future and Drive Towards Integration?** **FS**

Wabash Ballroom

588-801-15, 1.5 contact hours for this session

*This session is designed to convey the implications of ISO/IEC 17025:2005 accreditation for food laboratories; to demonstrate how the FDA ISO grants have improved integration between laboratory and regulatory partners via Sampling Agreements; to describe other successes laboratories have achieved through accreditation; and to consider the sustainability of nationwide food laboratory accreditation in light of other budgetary pressures.*

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

- Identify the implications of ISO/IEC accreditation in terms of sharing laboratory results with FDA and other states and locals for regulatory action
- Describe how laboratory accreditation has improved regulatory partnerships, laboratory operations, data quality, and food investigation efficiency
- Argue effectively for continued funding of accreditation efforts in your own laboratory beyond the limits of current federal funds

**Moderator: Daniel Rice, MS, DrPH, New York Department of Agriculture & Markets**

- **Ruiqing Pamboukian, PhD, U.S. Food and Drug Administration**
- **Joe Reardon, North Carolina Department of Agriculture and Consumer Services**
- **Michael Wichman, PhD, State Hygienic Laboratory at the University of Iowa**
- **Jeffery Moran, PhD, Arkansas Public Health Laboratory**

## **Next Generation Sequencing: Revolutionizing Infectious Disease Testing**

### **Rooms 120/121**

(588-802-15 – 1.5 contact hours for this session)

In the past year, Public Health Laboratories and CDC have made significant strides in expanding their Next Generation Sequencing (NGS) capability and capacity and defining NGS infectious disease applications beyond foodborne outbreak investigations. This session will delve into several new public health NGS applications and describe ongoing efforts to strategically incorporate NGS into the US public health system.

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

- Describe the APHL/CDC strategy to engage the public health system in the implementation of AMD
- Discuss the cost benefit of using NGS to characterize TB isolates as an alternative to other molecular methods

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

## **The Status of NGS in Public Health Laboratories: Where We Are and Where We're Going**

**Eric Blank, DrPH, Association of Public Health Laboratories**

## **Using NGS to Solve Influenza Mysteries**

Centers for Disease Control and Prevention - TBD

## **Whole Genome Sequencing for TB Diagnostics at the Wadsworth Center**

**Kimberlee Musser, PhD, Wadsworth Center**

## Pot Topics: The Challenge of Establishing a Cannabis Testing and Quality Assurance Program **ELS** **QS**

Rooms 122/123

(588-803-15 – 1.5 contact hours for this session)

*Public health laboratories have been asked to provide expertise in developing analytical requirements and interpretive criteria for cannabis products and/or to certify cannabis testing. Speakers in this session will address topics of interest including how to determine which contaminants and cannabinoids to test for in cannabis products, certification requirements for a cannabis testing laboratory, and legal issues related to the fact that cannabis remains illegal federally and laboratories may be subject to enforcement by the Drug Enforcement Agency.*

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

- List certification requirements for a cannabis testing laboratory
- Discuss legal issues in testing a federally illegal substance

**Moderators:** Joanne Bartkus, PhD, Minnesota Public Health Laboratory and  
Laura Gillim-Ross, PhD, HCLD(ABB), Colorado Department of Public Health & Environment

### The State of the States' Marijuana Policies

Karmen Hansen, MA, National Council of State Legislators

### Challenges of Development of Medicinal Marijuana Testing in New Jersey

Zhihua (Tina) Fan, PhD, New Jersey Department of Health

### The “Highs” and Lows of Public Health Laboratorians Navigating the World of “Shatter” and “Earwax”

Laura Gillim-Ross, PhD, HCLD(ABB), Colorado Department of Public Health and Environment

### Practical and Technical Issues Faced by Private Cannabis Laboratories

Jeremy Applen, BS, Page Analytical

## Anatomy of a Response—The 2014 ICLN Rad Exercise **EH**

Room 124

588-804-15, 1.5 contact hours for this session

*The Integrated Consortium of Laboratory Networks conducted a multi-agency exercise to test the ability of the nation's radiochemistry laboratories to quickly analyze samples and report results. This session will share the experiences of the laboratories and agencies involved in the analysis of human clinical, environmental and food samples.*

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

- Describe approaches to take for the analysis of challenging radiological samples
- Discuss the status of efforts to increase radioanalytical capacity

**Moderator:** Jack Bennett, Dr. Katherine A. Kelley State Public Health Laboratory

**The Apple Doesn't Fall Far—The 2014 FERN ICLN Radiation Exercise**

Jack Bennett, Dr. Katherine A. Kelley State Public Health Laboratory

**EPA's Participation in the ICLN Full-Scale Exercise**

Cynthia White, US Environmental Protection Agency

**Department of Energy Participation in the 2014 ICLN Full Scale Exercise**

Berta Oates, Portage, Inc.

**The Department of Homeland Security Integrated Consortium of Laboratory Networks' First Full Scale Radiological Laboratory Exercise**

Robert Jones, PhD, Centers for Disease Control and Prevention

5:30 pm – 7:00 pm

**Welcome Reception in the Exhibit Hall**

Exhibit Hall C

*Sponsored by Roche Diagnostics*

# TUESDAY, MAY 19, 2015

7:00 am – 5:30 pm

## Registration

Wabash Ballroom Foyer

7:00 am – 8:30 am

## Coffee

Wabash Ballroom Foyer

7:30 am – 8:15 am

## Industry Workshops (TBD)

Rooms 125-128

8:30 am – 10:00 am

## Plenary Session (Plenary #2)

Wabash Ballroom

### **Ready, Set, Go! Public Health Laboratory Approaches Towards Implementing Whole Genome Sequencing for Foodborne Surveillance** **FS**

(588-805-15 – 1.5 contact hours for this session)

*Whole genome sequencing (WGS) can provide unique information that can be used for characterizing and subtyping foodborne pathogens. The Advanced Molecular Detection Initiative (AMD) has provided resources to some states to implement WGS technology within the public health laboratory (PHL) for foodborne surveillance activities. This session will highlight approaches and lessons learned from PHLs at different stages of implementation of WGS within their laboratories including evaluating and implementing WGS testing and integrating it into established workflows for prospective, real-time surveillance.*

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

- Discuss how public health laboratories are integrating WGS into their laboratory workflow processes and the requirements to be considered in order to perform WGS in a public health laboratory setting
- Describe how WGS is used for prospective real-time surveillance of Salmonella Enteritidis and the detection of foodborne outbreaks
- Explain why and how WGS will replace conventional reference testing and subtyping for enteric bacterial pathogens and the process for making this transformation

Moderator: David Boxrud, MS, Minnesota Department of Health

### **Introduction and Current Trends of WGS Capabilities/Capacity for PulseNet Surveillance**

David Boxrud, MS, Minnesota Department of Public Health

### **WGS Implementation and Lessons Learned at the Washington State Public Health Laboratory**

Roxanne Meek, Washington State Public Health Laboratory

### **Application of WGS for Prospective Real-time Surveillance of Salmonella Enteritidis: Lessons Learned**

David Boxrud, MS, Minnesota Department of Public Health

### **Transitioning Public Health Microbiology to Whole Genome Sequencing: Experiences and Plans for Bacterial Foodborne Pathogens**

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

10:00 am – 10:30 am

### **Break in the Exhibit Hall**

Exhibit Hall C

10:00 am – 6:30 pm

### **Exhibit Hall Open**

Exhibit Hall C

10:00 am – 6:30 pm

### **Posters available for viewing in the exhibit hall**

Exhibit Hall C

10:30 am – 12:00 pm

### **Concurrent Sessions (Breakout #2)**

### **Learning from the 2014 Ebola Virus Disease Outbreak to Prepare for the Next Threat** P

Wabash Ballroom

(588-806-15 – 1.5 contact hours for this session)

*Response to the 2014 Ebola Outbreak in West Africa and selected cases in the United States highlighted vulnerabilities in laboratory testing, packaging and shipping and referral of specimens. This breakout session will allow APHL members to discuss their preparation strategies and how these may be applied more broadly to future threats. The discussion will focus on exchanging best practices in testing, technology, training,*

*outreach, communications and notification processes. Participants will also discuss their role in the Laboratory Response Network (LRN) and how this partnership serves a foundation for response to all threats.*

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

- Provide an overview of the US public health response to the 2014 Ebola Virus Disease Outbreak
- Describe lessons learned from the 2014 Ebola Virus Disease Outbreak
- Discuss best practices and tools to enhance preparedness and response planning

**Moderator:** Jasmine Chaitram, MPH, MT (ASCP), Centers for Disease Control and Prevention

### **Local Public Health Laboratory Experience with the First Case of Ebola in the US**

Joey Stringer, BS, BA, Dallas County Health and Human Services

### **Texas Leverages the Laboratory Response Network to Respond to Ebola in the US**

Grace Kubin, PhD, Texas Department of State Health Services

### **Managing Public Perception and Responding to Ebola in New York City**

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

### **Utilizing Partnerships to Respond to Emerging Threats**

Toby Merlin, MD, Centers for Disease Control and Prevention

## **Biomonitoring in the Northeast—Opportunities for Collaboration? EH**

**Rooms 120/121**

(588-807-15 – 1.5 contact hours for this session)

*Several state public health laboratories in the Northeast are currently engaged in or are launching state-based biomonitoring programs. Each will provide an overview of their respective approaches and explore opportunities to collaborate on a regional basis. Speakers will stress the importance of study design, sampling, biomarker selection and analytical approach in generating robust biomonitoring data. Collaborations between the NYS laboratory and state, federal and academic partners have expanded the breadth of sample types, target compounds and analytical methodology used for biomonitoring. These will be discussed within the context of the CHANES, Great Lakes Study and the Newborn Screening Program.*

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

- Discuss the biomonitoring strategies planned in the Northeast states
- Explore opportunities for collaboration among the states and with other partners
- Describe how experienced laboratories have collaborated with others to improve and expand biomonitoring science

**Moderator:** Ewa King, PhD, Rhode Island State Health Laboratories

- **Kenneth M. Aldous**, PhD, Wadsworth Center, New York State Department of Health
- **Julianne Nassif**, MS, New Hampshire Public Health Laboratories
- **Jamshid Eshraghi**, PhD, William A. Hinton State Laboratory Institute (Invited)
- **Bahman Parsa**, PhD, New Jersey Department of Health (invited)

## **No Time to Lose: Re-assessing Timeliness in Newborn Screening** NBS

Rooms 122/123

(588-808-15 – 1.5 contact hours for this session)

*This session will feature presentations from various states regarding recent newborn screening timeliness improvements, highlighting their challenges, lessons learned and accomplishments.*

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

- Discuss why newborn screening must occur in a timely manner to be effective
- Describe one state's newborn screening timeliness improvements

**Moderator:** Susan Tanksley, PhD, Texas Department of State Health Services

### **Timeliness of Newborn Screening: Secretary's Discretionary Advisory Committee on Heritable Disorders in Newborns and Children (DACHDNC) Recommendations to Newborn Screening Systems**

Susan Tanksley, PhD, Texas Department of State Health Services

### **Improving Quality Indicators Associated With Specimen Collection and Transport**

Scott Shone, PhD, New Jersey Division of Public Health and Environmental Laboratories

### **Improving Newborn Screening Program: A Systematic Approach**

Mei Baker, MD, Wisconsin State Laboratory of Hygiene

### **The Iowa Experience: Re-assessing Timeliness Requirements for Time—critical NBS Conditions**

Stanton L. Berberich, PhD, State Hygienic Laboratory at the University of Iowa

## Citizen Science—What is the Role of Public Health and Government Laboratories? EH

### Room 124

(588-809-15 – 1.5 contact hours for this session)

*Citizens and communities are increasingly interested in their environmental health based on environmental conditions where they live, work, play, even where they are at any point in time. Empowering them to use new analytical tools to capture scientific data and understand its quality requires teaching and training. NIH scientists are discussing the support of citizen science through grants to promote community-university partnerships. The role of public health and government laboratories as partner of public health may be expanding to include citizen science. EPA includes public health and government laboratories in an approach similar to NIH. The purpose of these partnerships is to test new equipment and teach citizens how to deploy them, how to capture environmental data, and how to determine its quality before they share it. At the conclusion of this session, the participant will be able to:*

- Describe how public health and government laboratories can help teach citizens and communities how to monitor public health and the environment.
- Identify the challenges of teaching citizens and communities how to interpret the data they capture and its quality

**Moderator:** Henry Leibovitz, PhD, Rhode Island State Health Laboratories

- Sara Wylie, PhD, Northeastern University
- Liam O'Fallon, MA, National Institute of Environmental Health Sciences

12:00 pm – 1:00 pm

**Lunch (on your own) – food for purchase available in the Exhibit Hall**

**Exhibit Hall C**

*Visit with the Vendors and view posters*

1:00 pm – 1:45 pm

## Plenary Session

**Wabash Ballroom**

### Citizen Science

*Citizen Science is an excellent way to engage everyday people in science and data collection. For hundreds of years, the information that volunteers have collected has been an important source of information for the scientific community. Opportunities for public health and environmental organizations to engage with communities to collect useful information have grown tremendously due to new low cost measurement devices and the expansion of smart phone use. Many federal agencies, including NOAA, NASA,*

USGS, NSF, HHS and EPA are finding creative ways to use citizen science in monitoring and research programs. Dr. Burke, Deputy Assistant Administrator of Environmental Protection Agency's Office of Research and Development as well as EPA's Science Advisor, will discuss the Agency's efforts to use citizen science; how the agency has worked with states, tribes, and other organizations to empower local communities; and how others could also engage in citizen science to create valuable national and regional data sets, extend the reach of research projects, and stimulate more participation in environmental and public health education.

**Moderator: Daniel Rice, MPH, DrPH, New York State Department of Agriculture and Markets**

- **Thomas Burke, PhD, Deputy Assistant Administrator, Office of Research and Development and EPA Science Advisor, U.S. Environmental Protection Agency**

1:45 pm – 2:00 pm

**Move to breakout sessions**

2:00 pm – 3:30 pm

**Concurrent Sessions (Breakout #3)**

**Laboratory Contributions to the Global Health Security Agenda** GH

**Wabash Ballroom**

(588-810-15 – 1.5 contact hours for this session)

An overview of the Global Health Security Agenda (GHSa) and the World Health Organization (WHO) International Health Regulations (IHR) will be provided. The Centers for Disease Control and Prevention (CDC) will share their efforts to date in support of this important initiative. This session will also cover a report on the establishment of the African Public Health Laboratory Network (APHLN) and how this network will help address public health emergencies of international concern (PHEIC) including Ebola outbreaks.

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

- Describe the Global Health Security Agenda and the WHO International Health Regulations (IHR)
- Identify laboratory activities being implemented to support GHSa
- Discuss the APHL and African Public Health Laboratory Network collaboration and roles in disease surveillance and response

**Moderator: Romesh Gautam, PhD, Washington State Public Health Laboratories**

- **Ambassador Bonnie Jenkins, PhD, LLM, MPA, JD, U.S. Department of State**
- **Beth Skaggs, PhD, Centers for Disease Control and Prevention**
- **Ralph Timperi, MPH, Association of Public Health Laboratories**

## Antimicrobial Resistance: A Public Health Problem Requiring a Public Health Solution ID

Rooms 120/121

(588-811-15 – 1.5 contact hours for this session)

*The continued emergence of antimicrobial resistant (AR) organisms is a widely recognize threat to patient safety and the public's health. However, up to this point the public health surveillance system and role of the public health laboratory has been poorly defined and varies widely by jurisdiction across the United States. This session will provide an overview of CDC's proposed approach to bringing uniformity to AR surveillance and laboratory testing including the establishment of Regional Reference Laboratories to provide specialized AR testing as well as ongoing efforts of several public health laboratories to monitor resistance in their states.*

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

- Describe the growing threat of antimicrobial resistance
- Discuss the role public health laboratories are playing in AR surveillance
- Identify CDC's antimicrobial resistance priorities.

**Moderator:** Sarah Vetter, PhD, Minnesota Public Health Laboratory

### **CDC Plans to Battle AR**

Jean Patel, PhD, Centers for Disease Control and Prevention

### **Race with CRE: Indiana State PHL Leads the Efforts to Develop Statewide CRE Surveillance System**

Lixia Liu, PhD, Indiana Public Health Laboratory

### **Looking for the Bad Bugs in Wisconsin**

David Warshauer, PhD, Wisconsin State Laboratory of Hygiene

## The Coaching Relationship—A Developmental Opportunity that Drives Results W

Rooms 122/123

(588-812-15 – 1.5 contact hours for this session)

*Effective coaching can empower employees to solve problems, resolve issues, generate ideas, and/or pursue meaningful developmental objectives. The National Center for Public Health Laboratory Leadership (NCPHLL) piloted a domestic and global coaching Program utilizing alumni of the Emerging Leader Program and matched individual cohort members from both the current domestic Cohort 7 class as well as the new pilot cohort class in Lesotho.*

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

- Distinguish between coaching and mentorship and how it applies to the laboratory workforce
- Utilize the ideas and skills of coaching in managing others
- Describe how the benefits of coaching support both the coach and coachee

**Moderator:** Pandora Ray, MPH, Director, NCPHLL, Association of Public Health Laboratories

### **Coaching vs. Mentoring**

Linda M. Raudenbush, EdD, University of Maryland Baltimore County

### **Coaching Success in Lesotho**

Andrew Cannons, PhD, Director, Bureau of Public Health Laboratories Florida, Tampa

## **Engaging Communities Regarding Environmental Health Concerns** EH

**Room 124**

(588-813-15 – 1.5 contact hours for this session)

*Many of our laboratories are frequently contacted by the public with question about various environmental issues such as spills, exposure to chemicals, air and water quality expressing concerns about real or potential health impacts, and they do not know where to obtain assistance and answers to their questions. Much has been developed to effectively deal with emergency situations as well as food and disease outbreaks, but the general public often do not know who can answer their environmental health questions. This session is intended to present lessons learned from CDC/APHL supported projects in Iowa and New Hampshire and engage the audience to identify possible procedures and systems that could be applied nationally.*

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

- Describe findings and gaps that have been identified to address community environmental concerns
- Explain how these concerns are currently addressed, or not
- Discuss pros and cons of developing a communication, tracking and follow-up system

**Moderator:** Michael Wichman, PhD, MS, State Hygienic Laboratory at the University of Iowa

### **The New Hampshire Experience in Engaging Communities in Environmental Health**

Julianne Nassif, MS, New Hampshire Public Health Laboratories

### **Should Public Health Laboratories Get More Involved in Community Environmental Health?**

Megan Latshaw, PHD, MHS, Association of Public Health Laboratories

### **Iowa's Experience/Process in Addressing Community Environmental Health Concerns**

Michael Wichman, PhD, MS, State Hygienic Laboratory at the University of Iowa

3:30 pm – 4:00 pm

**Break in the Exhibit Hall**

Exhibit Hall C

4:00 pm – 5:30 pm

**Member Assembly**

Wabash Ballroom

5:30 pm – 6:30 pm

**Networking Reception in the Exhibit Hall**

Exhibit Hall C

# WEDNESDAY, MAY 20, 2015

7:00 am – 5:30 pm

## Registration

Wabash Ballroom Foyer

7:00 am – 8:30 am

## Coffee

Wabash Ballroom Foyer

7:30 am – 8:15 am

## Roundtables

### **The Knowledge Retention Toolkit—Keeping the Know-How Here** **KM**

Room 125

*In the Retention Toolkit roundtable, participants will learn how PHLs can apply the toolkit to departing staff and key personnel whose retirement or unpredicted absence could cause a significant impact on operations. The toolkit can be useful even for staff that will be on an extended leave of absence. During the roundtable, participants will have an opportunity to discuss the various toolkit components and to receive hands-on experience use with guidance to create a process to retain staff knowledge.*

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

### **Healthy People 2020 for Local Public Health Laboratories** **LL**

Room 126

*The Local Lab Committee will host an open discussion on the challenges presented by relevant Healthy People 2020 topics and objectives for Local Public Health Laboratories.*

*Additionally, the discussion will address the roundtable attendees' plans to address these topics and objectives during the coming years.*

- **Kerry Buchs**, MHA, MT(ASCP), Philadelphia Public Health Laboratories

### **FDA Proposed Regulation of Laboratory Developed Tests—Now What?** **P0**

Room 127

*On October 3, 2014, the Food and Drug Administration (FDA) released a draft regulatory framework for the oversight of laboratory developed tests (LDTs). This roundtable will provide an open discussion forum to share ideas on how public health laboratories can navigate the regulatory framework and consider innovative ways to comply with premarket review requirements.*

**Moderator:** John Fontana, PhD, HCLD(ABB), APHL Member

## Does Your Laboratory Have an Individualized Quality Control Plan (IQCP)? **QS**

### Room 128

*The focus of this roundtable will be a discussion on “Individualized Quality Control Plan” (IQCP), which the Centers for Medicare and Medicaid Services (CMS) is implementing as a new approved quality control option based on risk management for CLIA laboratories performing non-waived testing. The IQCP educational and transitional period runs from January 1, 2014 to January 1, 2016. The current equivalent quality control in the CLIA guidance will soon not be an acceptable option for compliance. Members will have an opportunity to share their experiences on how they have implemented IQCP in their laboratories. Come hear what your peers are doing. A list of resources will also be made available.*

#### Moderators:

- **Jill Power**, MS, M(ASCP), CMQ/OE(ASQ), New Hampshire Public Health Laboratories
- **Karen Breckenridge**, MBA, MT(ASCP), Association of Public Health Laboratories

8:30 am – 10:00 am

### Awards Ceremony & Breakfast

#### Exhibit Hall C

*Sponsored by Hologic*

8:30 am – 2:00 pm

### Posters available for viewing in the exhibit hall

#### Exhibit Hall C

10:00 am – 10:30 am

### Break in the Exhibit Hall

#### Exhibit Hall C

*Sponsored by Bio-Rad Laboratories*

10:00 am – 2:00 pm

### Exhibit Hall open

#### Exhibit Hall C

10:30 am – 12:00 pm

**Plenary Session (Plenary #3)**

Wabash Ballroom

**Racing to the Clouds: How Cloud Computing is Advancing Public Health** 

(588-814-15 – 1.5 contact hours for this session)

*According to the National Institute of Standards and Technology (NIST), cloud computing “is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.” This technology is now and will increasingly be the backdrop for all electronic data traffic—public health laboratory data included! This session will review the availability and utility of cloud-based technologies and explore the ways that public health is making use of cloud technologies to enhance business objectives, improve epidemiological analyses, and facilitate data exchange. Experts in the field will describe the necessary tools needed to interact with cloud technology and security standards, and explain how to best prepare for the future, given real world examples.*

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

- Explain cloud computing and its relevance to public health
- Describe the benefits and challenges that cloud computing can offer the public health community
- Describe some of the major success stories of how public health agencies and laboratories have leveraged cloud technologies to advance public health
- Elaborate on the applicability of cloud computing and how their respective organizations may get involved

**Moderator:** Patina Zarccone, MPH, Association of Public Health Laboratories

**What is Cloud Computing and What does it Mean for Public Health?**

Eduardo Gonzalez Loumiet, MBA, Uber Operations, LLC

**Challenges, Benefits and Perceptions (and mis-perceptions) of Cloud Computing**

Jeff Benning, MBA, Laboratory Interoperability Cooperative

**Cloud Computing in the Real World: Operational Examples and Where to Start**

Wesley Kennemore, MD, MS, PE, Association of Public Health Laboratories

12:00 pm – 2:00 pm

**Lunch Provided in the Exhibit Hall**

*Visit with the vendors and view posters*

1:30 pm

**Raffle Drawing in the Exhibit Hall**

Exhibit Hall C

2:00 pm – 3:00pm

**Plenary Session** (Plenary #4)

Wabash Ballroom

**Dr. Katherine Kelley Distinguished Lecture****The Exposome and What it Means to Public Health**

(588-815-15 – 1.0 contact hours for this session)

*New tools have been developed in the last 10 years that are rapidly changing the ways in which exposure can be measured in populations. From a revolution in sensor technology to advances in biomonitoring and genomics, our ability to better understand the degree to which people are exposed to environmental chemicals has never been better. This talk will review this area and discuss what these advances will mean to public health.*

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

- Describe the Exposome
- Discuss how advances in sensor technology enhance our ability to understand how people are exposed to environmental chemicals

**Moderator:** Judith Lovchik, PhD, D(ABMM), Indiana Public Health Laboratory

- Christopher J. Portier, PhD, Environmental Defense Fund

3:00 pm – 3:30 pm

**Break**

Wabash Ballroom Foyer

3:30 pm – 5:00 pm

**Concurrent Sessions** (Breakout #4)**Implementing Effective Biosafety Programs** ID P

Wabash Ballroom

(588-816-15 – 1.5 contact hours for this session)

*Over the past year, several challenges have arisen in the area of biosafety. Breaches in protocols, new technologies and emerging pathogens have tested our biosafety beliefs and practices. This breakout session will examine the recent biosafety incidents, steps taken to mitigate future breaches as well as to address the biosafety requirements of new technologies and tools to implement effective biosafety programs.*

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

- Describe the recent biosafety incidents and steps taken to mitigate future breaches
- Discuss the biosafety concerns of implementing new technologies such as Matrix Assisted Laser Desorption/Ionization Time of Flight (MALDI TOF) Mass Spectrometry and working with emerging pathogens
- Discuss the available tools such as risk assessments, training and competencies to build an effective biosafety program

**Moderator: Andrew C. Cannons, PhD, HCLD(ABB), Bureau of Public Health Laboratories–Tampa**

- CDC Speaker and Topic: TBD

### **Biosafety Implications of New Technologies and Emerging Pathogens**

**James T. Rudrik, PhD, Michigan Department of Community Health**

### **Implementing an Effective Biosafety Program**

**Michael A. Pentella, PhD, D(ABMM), William A. Hinton State Laboratory Institute**

### **In the Fast Lane: Addressing the Rapidly Changing World of Culture Independent Diagnostics and Surveillance for Foodborne Pathogens** FS

**Rooms 120/121**

(588-817-15 – 1.5 contact hours for this session)

*Since 2013, several companies have received FDA approval of culture-independent syndrome-based, multi-analyte nucleic acid panels for enteric pathogens. Although CIDTs offer faster turnaround time in the clinical laboratory setting, use of these tests has implications on isolate-based public health surveillance systems, such as PulseNet. This session will highlight activities some public health agencies are implementing to address short- and long-term solutions for the preservation of isolates needed for current public health surveillance testing.*

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

- Discuss the importance of reviewing and modifying local/state laws for mandatory isolate or clinical material submission
- Describe validation studies and workflow practices within public health laboratories in response to uptake of CIDT testing in clinical laboratories
- Explain current studies to address isolate recovery practices and long-term solutions for culture-independent public health surveillance testing

**Moderator: Tim Monson, MS, Wisconsin State Laboratory of Hygiene**

**Introduction on Culture-independent Diagnostic Tests for Gastrointestinal Pathogens**

Tim Monson, MS, Wisconsin State Laboratory of Hygiene

**Changing Local Isolate Submission Regulations: Los Angeles County's Approach to Addressing CIDs**

Nicole Green, PhD, Los Angeles County Public Health Laboratory

**A Local, State, Federal Partnership to Address CIDs: Updates from the Culture Preservation Working Group**

Amy Woron, PhD, Tennessee Department of Health

**Short—and Long-term Solutions for Addressing Public Health Response to CIDs**

John Besser, PhD, Centers for Disease Control and Prevention

**Ensuring Sustainability: Tools to Improve Systems and Processes** S QS

Rooms 122/123

(588-818-15 – 1.5 contact hours for this session)

*Several APHL members earned Lean certification this past year through a collaboration between the NCPHLL, the Quality Systems Program, and Becton Dickinson. During this session, the panel of laboratory professionals will share their experiences. Several different perspectives will be offered, including practical application of Lean, empowering workers and engaging upper level management, and ways to implement Lean quickly and cheaply. Focus is on the mechanics for Lean implementation and how the program contributed to the economies of scale, return on investment, and sustainability of services to their public health communities.*

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

- Describe several quality tools and practices to implement in the laboratory system
- Discuss examples of practical initiatives demonstrated to incrementally impact operational efficiency
- Conceptualize potential projects to implement in their own laboratories to address improvements to workflow, administrative efficiency, and cost savings

**Moderator:** Catherine Johnson, MS, MT(ASCP), Association of Public Health Laboratories

**Lean in Practice – Project Examples**

Karen Stephani, New York State Department of Agriculture & Markets

**Engage, Empower, Excite - Using Lean to Strengthen Your Organization**

Denise Lopez, MS, PHM II, Tulare County (CA) Public Health Laboratories

**Implementing Lean on Limited Budget**

Grace Kubin, PhD, Texas State Department of State Health Services

## Responding to the Designer Drug Crisis **EH**

### Room 124

(588-819-15 – 1.5 contact hours for this session)

*This session conveys how state-based collaborations can benefit from LRN-C infrastructure while responding to high priority public health issues. This session also demonstrates how state-based material programs can be developed through cost-effective mechanisms; how technology can be transferred via state-state interactions; and how private partnerships are critical to the sustainability of these initiatives.*

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

- Recognize the public health and safety significance of designer drugs
- Describe how state-based collaborations can improve response strategies and other public health initiatives with wide-ranging applications (spanning regulatory, operational, data quality, and efficiency aspects)
- Discuss how collaborations and private partnerships drive sustainability of state-based Initiatives

**Moderator:** Jeffery Moran, PhD, Arkansas Public Health Laboratory

### **A Public Health Laboratory Response Towards Acetyl fentanyl**

Ewa King, PhD, Rhode Island State Health Laboratories

### **Validating a Human Test for Acetyl fentanyl Using the LRN-C Platform**

Amy Patton, MS, Arkansas Public Health Laboratory

Jeffery Moran, PhD, Arkansas Public Health Laboratory

### **Creating a Material Program to Sustain Acetyl fentanyl and Other Drug Testing Applications**

Gregory Endres, PhD, Cayman Chemical Company

### **Lessons Learned from State-to-state Collaborations Facilitating Technology Transfer**

Joseph Jones, MS, Ohio Crime Laboratory Director

# THURSDAY, MAY 21, 2015

7:00 am – 12:30 pm

## Registration

Wabash Ballroom Foyer

7:00 am – 8:30 am

## Coffee

Wabash Ballroom Foyer

7:30 am – 8:15 am

## Roundtables

### **The Changing Face of Environmental Accreditation** EH

Room 125

*Over the last few years there have been a number of changes occurring with state and national programs related to certification and accreditation of environmental laboratories. This roundtable will provide an opportunity to discuss the impact of the changes and the increased use of third party accreditation with concerns related to oversight and movement away from governmental certification/accreditation bodies.*

**Moderator:** Jack Bennett, Dr. Katherine A. Kelley State Public Health Laboratory

- Michael Wichman, PhD, State Hygienic Laboratory at the University of Iowa

### **Good Results Require GOOD Samples—Steering the Field of Food and Feed Sampling in a Revolutionary Direction** FS

Room 126

*A revolutionary framework being developed to provide guidance on sampling and sample handling in food and feed testing, both in the field and in the laboratory. This framework will address many potential sources of error in the analytical measurement process, which is critical to the testing of any food or feed where the consequences of an incorrect decision can lead to product misbranding, adulteration, and/or missed safety issues. Once published, Guidance on Obtaining Defensible Samples (GOODSamples) will support FSMA regulations by helping to standardize activities across food/feed testing, to meet program standards and enhance food safety.*

**Moderator:** Yvonne Salfinger, MS, Association of Public Health Laboratories

- Nancy Thiex, PhD, Association of American Feed Control Officials
- Jo Marie Cook, Florida Department of Agriculture and Consumer Services

## Lean at Work in the Public Health Laboratory **S**

### Room 127

*Lean is a continuous process improvement strategy that values and promotes worker involvement and leverages existing resources instead of relying on capital investments alone. Individuals who have implemented Lean in a variety of different public health lab settings (state labs, local labs, environmental labs, branch labs, etc) and who have attained Lean certification, will lead a discussion on successful strategies for implementation, ideas to overcome common challenges, and keys to the sustainability of this approach.*

- **Kwadwo Owusu-Ofori**, PhD, Milwaukee Health Department Public Health Laboratory
- **Leila Filson**, MHA, Florida Department of Health
- **Karen Stephani**, New York State Food Laboratory
- **Denise Lopez**, MS, PHM, Tulare County (CA) Public Health Laboratory

## A New Web-based Virtual Open House for Public Health Laboratory Recruitment and Education **W**

### Room 128

*This session will introduce a new web-based recruitment tool targeting late high school/early college students that will allow students to learn about the role public health laboratories play in protecting community health through “straight-from-the-headlines”-based modules. The modules introduce various aspects of laboratory practice with a focus on newborn screening, infectious disease, environmental health, foodborne disease, vectorborne disease, and emergency preparedness. This web-based resource also includes a career page so students may explore career options offered by public health laboratories.*

- **Zenda L. Berrada**, PhD, San Mateo County (CA) Public Health Laboratory
- **Tracy Stiles**, MS, M(ASCP), William A. Hinton State Laboratory Institute

8:30 am – 10:00 am

## Concurrent Sessions (Breakout #5)

### Transforming Surveillance Systems with Advanced Molecular Detection (AMD) Technology **ID**

#### Wabash Ballroom

(588-820-15 – 1.5 contact hours for this session)

*The increasing use of direct molecular diagnostic tests in clinical settings is driving public health scientists to quickly find ways to bridge from traditional microbiology to advanced approaches for public health surveillance. CDC has begun exploring how AMD laboratory and analysis technology can be applied to transform our current surveillance systems. In conjunction with state and local partners, CDC has begun to pilot these technologies for a few surveillance systems—including PulseNet, Flu and Hepatitis C. AMD technology is already starting to enhance our ability to find and solve outbreaks—come learn about the exciting transformations that AMD is bringing to public health surveillance systems.*

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

- Describe the AMD technology being implemented for use in public health
- Discuss how AMD Laboratory technology can improve outbreak detection and response
- Identify the surveillance systems that are making progress in piloting AMD technology

**Moderator: Steve Monroe, PhD, Centers for Disease Control and Prevention**

### **Food/PulseNet**

**John Besser, PhD, Centers for Disease Control and Prevention**

### **Influenza**

**Daniel Jernigan, MD, MPH, Centers for Disease Control and Prevention**

### **Hepatitis C**

**Yury Khudyakov, Centers for Disease Control and Prevention**

### **State Experience**

**Peter Shult, PhD, Wisconsin State Laboratory of Hygiene**

## **The Return on Investment Model, Metrics and Relevance for Public Health Laboratories** **QS**

**Rooms 120/121**

(588-821-15 – 1.5 contact hours for this session)

*The Return on Investment (ROI) Model and the resulting metrics determined for PHLs can be used to communicate the value and importance of the services they provide to decision makers and help laboratories leverage this data to obtain needed funding. This sessions topics will include: an overview of the ROI Model; the process of developing metrics for PHLs; the significance of gathering data for metrics; and the practical application and utilization of ROI metrics.*

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

- Explain the importance of determining the ROI for PHLs
- Describe the ROI model components and implementation of the next steps of application

**Moderator: Sadira Daher, MA, Association of Public Health Laboratories**

- **Paul Speaker, PhD, University of West Virginia**
- **Lorelei Kurimski, MS, State Hygienic Laboratory at the University of Iowa**
- **Christine Bean, PhD, MBA, MT(ASCP), New Hampshire Division of Public Health Services**

## Newborn Screening Pre-analytic Initiatives **QS** **NBS**

### Rooms 122/123

(588-822-15 – 1.5 contact hours for this session)

*Newborn screening (NBS) laboratories were given the opportunity to apply for funding for projects related to improving pre-analytical processes. One funding opportunity was to test the feasibility of establishing an electronic birth notification mechanism and the value of conducting surveillance on NBS pre-analytic processes to improve the timeliness and quality of specimen collection, submission, and transport for NBS. The other was from APHL's Newborn Screening and Technical assistance and Evaluation Program (NewSTEPS) to pilot a Collaborative Improvement & Innovation Network (CoIIN) that allowed programs to engage in quality improvement through shared collaborative learning of evidence-based strategies for improvement of timeliness within NBS. The presenters will share their projects and experiences and discuss lessons learned to others who might wish to adapt the projects for their laboratories.*

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

- List benefits expected by implementation of procedures or tools highlighted by the newborn screening pre-analytic projects
- Discuss barriers and lessons learned encountered by the newborn screening programs conducting pre-analytic projects
- Describe state newborn screening programs efforts to develop and implement quality improvement practices and activities aimed at addressing timeliness with a focus on the hospital and laboratory components of specimen transport

#### Moderators:

- **Bin Chen**, PhD, FACMG, Centers for Disease Control and Prevention
- **Thalia Wood**, MPH, Association of Public Health Laboratories

### **Developing an Electronic Birth Notification System to Improve NBS Processes—The Montana Experience**

**Susanne Norris Zanto**, MPH, MLS(ASCP)CM, SM, Montana Public Health Laboratory

### **Implementing an Electronic Birth Notification System in Select Indiana Hospitals**

**Victoria Buchanan**, MS, MPH, Indiana State Department of Health

### **Timeliness Activities in Support of Newborn Screening in Colorado**

**Erica Wright MS**, CGC, Colorado Department of Public Health and Environment

### **Timeliness Activities in Support of Newborn Screening in New Hampshire**

**Linda Kincaid**, BSN, RN, New Hampshire Department of Health and Human Services

## **The Role of the Exposome in Predicting Disease** **EH**

**Room 124**

(588-823-15 – 1.5 contact hours for this session)

*The session explains the concept of exposome. This session will discuss how exposures from our environment, occupational sources, diet, lifestyle, etc. interact with our own genetics, physiology and epigenetics to impact our health. This session also presents work done by different agencies to demonstrate role of exposome in predicting diseases.*

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

- Define exposome and exposomics
- Discuss what the federal agencies are working on
- Discuss federal agencies' activities related to exposomics

**Moderator:** Sanwat Chaudhuri, PhD, Utah Public Health Laboratory

### **Concept of Exposome and its Role in Predicting Diseases**

**Gayle D. DeBord**, PhD, Centers for Disease Control and Prevention

### **Technologies and Tools to Measure Exposomes: Potential Role of Public Health Laboratories**

**Yuxia Cui**, PhD, National Institute of Environmental Health Sciences

### **Developing Non-targeted Measurement Methods to Characterize the Human Exposome**

**Jon Sobus**, PhD, U.S. Environmental Protection Agency

10:00 am – 10:30 am

## **Break**

**Wabash Ballroom Foyer**

10:30 am – 12:00 pm

**Plenary Session** (Plenary #5)

Wabash Ballroom

**Regulatory Oversight of Laboratory Developed Tests: Is This Good for Public Health?** **P0**

(588-824-15 – 1.5 contact hours for this session)

*On October 3, 2014, the Food and Drug Administration (FDA) released a draft regulatory framework for the oversight of laboratory developed tests (LDTs). This session will provide an overview of FDA's regulatory framework and discuss how it will impact public health laboratories.*

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

- Summarize FDA's regulatory framework for LDTs
- Discuss the impacts the regulation will have on public health laboratories
- Describe nuances of compliance issues
- Consider models and ideas of how public health laboratories can shape the regulatory framework

**Moderator: Celia Hagan, MPH, Association of Public Health Laboratories**

- **Grace Kubin, PhD, Texas Department of State Health Services**
- **Erasmus Schneider, PhD, Wadsworth Center**
- **Michele Schoonmaker, PhD, Cepheid**
- **Alberto Gutierrez, PhD, U.S. Food and Drug Administration**

12:00 pm

**Meeting adjourns**

1:00 pm – 3:00 pm

**Optional tour of the Indiana State Public Health Laboratory**

*Prior sign-up is required.*

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