

May 6–9, 2024

Milwaukee, WI

APHL[®] 2024

where laboratory science and public health meet

Preliminary Program

www.aphl.org/AC

#APHL

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where laboratory science and public health meet



The APHL Annual Conference, an in-person event for the public health laboratory community, brings together more than 1,000 leaders, scientists, influencers and partners to share issues, trends and best practices driving laboratory science and public health today.

Session topics explore public health laboratory issues, trends and technologies relative to emerging infectious diseases, environmental health, emergency preparedness, quality systems and safety, informatics, food safety, newborn screening, global health, workforce and more.

Attendees in Milwaukee will enjoy live sessions and roundtables, networking opportunities, receptions and events such as the Dr. Katherine Kelley Distinguished Lecture and the Annual Awards Ceremony, and 250+ scientific posters and 70+ exhibitors.

Attendee Benefits

46 sessions
70+ exhibitors
250+ scientific posters
Networking opportunities
Receptions and events
P.A.C.E.[®] and CPH CEUs
Registration bag, raffle and other special giveaways
Seeing friends and colleagues
All the fun of Milwaukee!

Who Attends?

- State, county and city public health laboratory directors and personnel
- Environmental and agricultural laboratory directors and scientists
- Fellows and students interested in public health laboratory science and practice
- Healthcare professionals and clinicians from public health agencies
- Federal agencies and state and local public health officials
- Clinical and academic laboratory managers and staff
- Others interested in laboratory issues

Why Attend?

- Learn more about contemporary issues in laboratory science
- Network with partners and friends
- Explore new ways to manage your laboratory
- Contribute to multiple discussions
- Visit 70+ exhibitors to see the latest in laboratory technology, supplies and services
- View 250+ posters from all branches or disciplines in public health laboratory science and practice

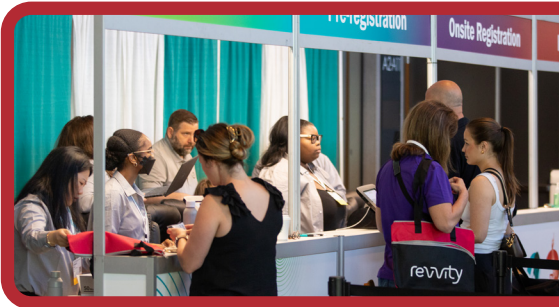
www.aphl.org/AC

Registration

Advanced registration through APHL is required. Visit www.aphl.org/AC. For questions, contact Terry Reamer at 240.485.2776 or terry.reamer@aphl.org.

APHL Member	\$650
Non-member	\$795
Fellow	\$450
Student	\$200

A student is someone who pays the registration fee out of pocket without reimbursement. A fellow is someone who receives a stipend to pay the registration fee.



Meeting Location and Headquarters Hotel

Baird Center

400 W. Wisconsin Avenue
Milwaukee, WI 53203

Hilton Milwaukee City Center

(headquarters)
509 W. Wisconsin Avenue
Milwaukee, WI 53203
414.271.7250

Hyatt Regency Milwaukee

333 W. Kilbourn Avenue
Milwaukee, WI 53203
414.276.1234



APHL 2024 will be held at the Baird Center in downtown Milwaukee, WI. The headquarters hotel is the Hilton Milwaukee City Center Hotel while the Hyatt Regency Milwaukee Hotel is a secondary hotel. Both are across the street from the convention center and within easy walking distance of numerous restaurants, shops and parks.

The conference sleeping room rate is \$143 (plus tax) per night for a single or double at the Hilton and \$145 at the Hyatt Regency. There are a very limited number of rooms at the federal per diem rate of \$128 at the Hilton only. Reservations are available on a first-come, first-served basis. This rate is valid until April 2, 2024 or until the block is filled. [Reservation details](#) may be found on the conference website.

Continuing Education Credits

APHL is an approved provider of continuing education programs in the clinical laboratory sciences through the American Society for Clinical Laboratory Science (ASCLS) P.A.C.E.® program. Attendees have the opportunity to earn up to 14 contact hours by attending all available sessions. 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 14 contact hours by attending all available sessions. All sessions will be presented in-person only.

Preconference Workshops

APHL 2024 will be preceded by the following five workshops, with a separate registration and fee. P.A.C.E.® credits will be provided. Details may be found in the following agenda and on the conference website.

May 5–6 | 1.5 days • \$449
9.5 P.A.C.E.® credits

Laboratory Design Matters: Improving Biosafety and Biosecurity Through Efficient Facility Design, Maintenance and Risk Assessment Practices

May 5 | 1 day • no fee

Making a Difference: A Workshop for Prospective APHL Global Health Consultants

May 6 | 8:00 am – 11:30 am • \$149 each
3.0 P.A.C.E.® credits each

- **Nonverbal Essentials for Success: Helpful Strategies for Scientific and Technical Communicators**
- **Communication Essentials: An Experiential Workshop on Messaging to Meet Your Laboratory's Needs**
- **Strategies and Model Practices for Hiring and Retaining the Best PHL Workforce Talent**

NEW Regulatory Science Track!



The Regulatory Science Track is new at APHL 2024, bringing specific content relevant to scientists and their partners who improve public health and safety by generating defensible data that informs regulatory decision-making.

The sessions below are designated with the RS symbol in the following agenda.

Plenary Session

- How Public Health Actions are Fueled by Regulatory Science

Concurrent Sessions

- Preventing the Next Infant Formula Crisis: Public Health Actions to Control *Cronobacter*
- Charting the Future: Leveraging National Competency Standards in a Cutting-edge Regulatory and Laboratory Training System
- Conundrums for Laboratorians: Regulatory and Ethical Considerations for Secondary Uses of Identifiable Biospecimens
- Food Fraud: What You Don't Know Can Kill You!
- Contamination Chronicles: Unmasking the Unusual in Public Health Investigations
- Save Money, Save Time, Be More Efficient: Process Improvement for Enteric Pathogens

Roundtable Discussion

- Collaboration with Partners During Food Safety Investigations — A One Health Perspective

Tour the Wisconsin State or Milwaukee City Public Health Laboratories

Join colleagues for one of three optional lab tours — Wisconsin State Public Health & Environmental Health Laboratories OR the Madison Nine Springs Wastewater Treatment Facility, both in Madison (1.5 hours away), OR the City of Milwaukee Public Health Laboratory. All three will take place on Thursday, May 9. The bus to Madison will leave the convention center/hotel at 12:30 pm and return by 5:00 pm. The Milwaukee city lab tour will also leave at 12:30 pm and return by 2:30 pm. *You must sign up for a tour at the same time as you register for the conference. Participation is very limited.*

Health and Safety Protocols

Your health and safety are important to us. While masks are optional to attend this meeting, we encourage all individuals who prefer to wear them to do so, and we fully respect that personal decision.

Consent to Use Photographic Images

Registration and attendance at or participation in APHL conferences 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, video and audio recordings, and electronic reproductions of such events and activities.



Public Health Laboratory Fellows in Attendance

We are excited to welcome 100+ Public Health Laboratory Fellows to APHL 2024. These early career scientists, currently placed within public health laboratories across the country, will participate in person in Milwaukee. These first-time attendees will attend sessions dedicated to the Public Health Laboratory Fellowship Program and will also join other attendees and exhibitors in participating in Annual Conference activities.



Program Highlights

Dr. Katherine Kelley Distinguished

Lecture: Dr. Peter Hotez, MD, PhD,
DSc (hon), FASTMH, FAAP

Tuesday, May 7, 10:30–11:30 am CDT

The Deadly Rise of Anti-Science

APHL Annual Awards Ceremony and Breakfast

Wednesday, May 8, 9:00–10:30 am CDT

The awards program highlights outstanding achievements in laboratory science, creative approaches to today's public health challenges and exemplary support of laboratories serving the public's health. Applaud your colleagues, cheer innovation and support the advancement of public health laboratory science and practice!

Exhibit and Poster Hall

Monday, May 6, 3:00 pm – 6:30 pm CDT

Tuesday, May 7, 10:00 am – 6:30 pm CDT

Wednesday, May 8, 10:00 am – 3:30 pm CDT

Network with industry peers and experts!
Visit with exhibitors to chat and learn of the latest products and services. Meet with poster presenters to learn the latest science, trends and practices.

Innovate! Sessions

Tuesday, May 7, 7:00–8:30 am CDT

Connect with your industry partners and get the inside track on new technologies and services during 30-minute educational presentations designed for the public health laboratory community.

Member Assembly

Wednesday, May 8, 5:00–6:00 pm CDT



Dr. Peter J. Hotez, a Nobel Peace Prize-nominated physician and scientist, is one of the most trusted voices on the pandemic and who also became one of the main targets of anti-science rhetoric that gained traction through conservative news media. Dr. Hotez will share his story of how the anti-vaccine movement grew into a dangerous and prominent anti-science element in American politics and will describe the devastating impacts it has had on Americans' health and lives. As a scientist who has endured antagonism from anti-vaxxers and been at the forefront of both essential scientific discovery and advocacy, he explains how anti-science became a major societal and lethal force.

Schedule Summary

All times are US Central (CDT).

APHL 2024 begins with four preconference workshops at 8:00 am on Monday, May 6, followed by the Welcome and Opening Session. at 1:30 pm. The conference ends Thursday, May 9, at 11:30 am.

Meeting Rooms

Sessions, exhibits, posters and food and beverage events will all take place in the Baird Center.

Exhibitors

Network with industry peers and experts! Visit with exhibitors to chat and learn of the latest products and services. Contact information for these exhibitors can be found at www.aphl.org/AC. As of February 15, 2024.

Abbott Laboratories	J.H. Findorff & Son	Technologies
ABSA International	Fisher Healthcare	PacBio
Advanced Instruments	Flad Architects	Promega Corporation
Amazon Web Services	Genial/Rainbow Scientific, Inc.	Puritan Medical Products
American Association of Laboratory Accreditation	Gold Standard Diagnostics Davis	QIAGEN
American Proficiency Institute	Gold Standard Diagnostics Horsham, Inc.	QuidelOrtho
American Public Health Association	GT Molecular	Redbud Labs
AnalytiChem	Guidehouse	Retractable Technologies, Inc.
APHL Experience	Hamilton Company	Revity
APHL Career Pathways	HDR, Inc.	Roche Diagnostics Corporation
Arlington Scientific	Hicomp Microtech	Ruvos, LLC
Baebies	HOK	SEAL Analytical
BGASoft, Inc.	Hologic	Sebia, Inc.
Bioperfectus Technologies, Inc.	iConnect Consulting	Seegene USA, Inc.
Bio-Rad Laboratories	Illumina	Standard BioTools
Biotage	InBios International	STARLIMS
Bruker	InductiveHealth	STAT Courier Service
BugSeq	Innovaprep	Streck
Centers for Disease Control and Prevention, Division of Laboratory Systems	INTEGRA Biosciences	Tecan
Cepheid	J Michael Consulting	Theiagen Genomics
Ceres Nanosciences, Inc.	Key Proteo	Thermo Fisher Scientific
Clear Labs	LabVantage	Twist Bioscience
Clinisys	Microbiology International	University of South Florida, College of Public Health
CURIS System	Microsensor Laboratories	Vela Diagnostics
Datapult	MRIGlobal	Waters Corporation
Diagenode	National Jewish Health	World BioHazTec
DiaSorin	New England BioLABS	Zymo Research Corp.
	OpenELIS Foundation	
	Oxford Nanopore	

Agenda at a Glance

	Monday, May 6				Tuesday, May 7			
6:30 am							Registration Open	
7:00 am								
7:30 am				Registration Open				
8:00 am	Preconference Workshops <i>separate registration fee</i>				Innovate! Sessions			
8:30 am					Break			
9:00 am					Public Health & Regulatory Science			
9:30 am					Break			
10:00 am								
10:30 am					Dr. Peter Hotez: The Deadly Rise of Anti-Science			
11:00 am								
11:30 am								
12:00 pm	Lunch <i>on your own</i>	Lab Directors Lunch <i>invite only</i>	Registration Open		Lunch provided in the Exhibit Hall			
12:30 pm								
1:00 pm								
1:30 pm	Welcome to Milwaukee				Concurrent Sessions			
2:00 pm	AI-powered Public Health				Rapid Poster Presentations			
2:30 pm					Break			
3:00 pm	Rapid Poster Presentations				Exhibit Hall and Posters	Concurrent Sessions		
3:30 pm	Break					Break		
4:00 pm	Concurrent Sessions					Concurrent Sessions		
4:30 pm								
5:00 pm	Welcome Reception					Networking Reception		
5:30 pm								
6:00 pm								

Agenda at a Glance

	Wednesday, May 8		Thursday, May 9	
7:00 am				
7:30 am	Roundtable Sessions		Roundtable Sessions	
8:00 am				
8:30 am	Break		Break	
9:00 am			Showdown: Tuberculosis vs. <i>Candida auris</i>	
9:30 am	Awards Ceremony and Breakfast			
10:00 am			Break	
10:30 am	Break		The Climate Crisis	
11:00 am	Concurrent Sessions			
11:30 am			APHL 2024 Adjourns	
12:00 pm				
12:30 pm	Lunch provided in the Exhibit Hall			
1:00 pm				
1:30 pm	Wastewater Surveillance for Public Health			
2:00 pm				
2:30 pm	Break / Exhibit Hall Raffle			
3:00 pm				
3:30 pm	Concurrent Sessions			
4:00 pm				
4:30 pm	Break			
5:00 pm	Member Assembly			
5:30 pm				
6:00 pm				

This agenda is as of February 8, 2024.
Please keep in mind that this schedule is a
work in progress and is subject to change.

Session Topics

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

AVE	Agricultural, veterinary and environmental testing technologies and practices
BIOM	Biomonitoring and chemical threats
BIOS	Biosafety and biosecurity
COM	Communications, advocacy and public relations
COV	COVID-19 and other infectious diseases (STI/STD)
DAT	Data and analytics
DDT	Diagnostics and new detection technologies
FSS	Food safety and security
INF	Informatics
MJH	Marijuana, hemp, opioids and other controlled substances
NGS	Next generation/long-read sequencing, metagenomics and bioinformatics
NBS	Newborn screening and genetics
OHA	One Health! approaches
PAN	Pandemic preparedness and emergency response
PAR	Partnerships, academic and research collaborations, training and outreach
QLM	Quality laboratory management systems
SEI	Socio-economic issues
SLS	Strengthening laboratory systems and strategic planning
SUR	Surveillance, outbreaks and emerging infections
WSU	Wastewater surveillance
WDT	Workforce development and retention

Competencies

The Centers for Disease Control and Prevention (CDC) and the Association of Public Health Laboratories (APHL) published the [Competency Guidelines for Public Health Laboratory Professionals](#) in a Morbidity and Mortality Weekly Report (MMWR) supplement. These guidelines were developed with a focus on public health laboratory practice and are intended to form the foundation of competency-based approaches to strengthen that practice, including integration into workforce development initiatives such as training and education programs.

In support of efforts to further the adoption and implementation of guidelines, each session in the APHL 2024 Annual Conference program will include one or more symbols corresponding to the related competency domain(s) that the session addresses. This guide is listed below.

QMS	Quality Management Systems	GEN	General Laboratory Practices
ETH	Ethics	SHC	Safety: Hazard Control
MLD	Management and Leadership	SRV	Surveillance
COM	Communication	INF	Informatics
SEC	Security	MCB	Microbiology
WFT	Workforce Training	CHM	Chemistry
EMR	Emergency Management and Response	BIO	Bioinformatics
		RES	Research

Sunday, May 5, 2024

9:00 am – 5:00 pm

Preconference Workshops ▼

Laboratory Design Matters: Improving Biosafety and Biosecurity Through Efficient Facility Design, Maintenance and Risk Assessment Practices

(Part 1) QLM SLS MLD QMS

Room 102AB

588-846-24 • 9.5 contact hours for this session

Moderator: Maria Landron, DrPH, Association of Public Health Laboratories

Speakers:

- Warren J. Hendrickson, AIA LEED AP, BD+C, Public Health Director, HDR, Inc.
- Michael Mottet, LEED AP, Principal Laboratory Planner, HDR, Inc.
- Victor Waddell, PhD, Laboratory Director, Arizona State Public Health Laboratory

This interactive workshop will help participants improve biosafety and biosecurity, including Biosafety Level 3 (BSL-3), through efficient facility design, maintenance and risk assessment practices. Attendees will participate in interactive sessions to illustrate best practices concepts found in the [Laboratory Facility Construction and Major Renovation Guidelines](#). Discussions and hands-on interaction will cover parts 1–10 of the Guidelines. **Participants are required to bring their own laptop in order to optimize participation during interactive sessions; internet will be available in the workshop room.** A more detailed agenda will be provided to participants. Registration is for both days of the workshop.

Note: This is a part one of a 1.5-day preconference workshop with a separate registration and fee of \$449. The entire workshop must be attended to receive P.A.C.E.® credits. There is a limit of 40 attendees.

Making a Difference: A Workshop for Prospective APHL Global Health Consultants

Room 101DE

588-847-24 • 6.5 contact hours for this session

Moderators: Jocelyn Isadore and Jennifer Sedillo, Association of Public Health Laboratories

Speakers:

- Lucy Maryogo-Robinson, MPH, Global Health Director, Association of Public Health Laboratories
- Sherrie Staley, MPH, Global Health Deputy Director, Association of Public Health Laboratories
- Frances Pouch Downes, DrPH, Professor Emeritus, Michigan State University
- Paul Kimsey, PhD, Director, California State Public Health Laboratory (retired)
- David Mills, PhD, Director, New Mexico Scientific Laboratory Division (retired)
- Ralph Timperi, Jr., MPH, Director, Massachusetts State Laboratory (retired), APHL Senior Advisor (retired)
- Burton W. Wilcke, PhD, Associate Professor Emeritus, University of Vermont

Are you interested in supporting public health laboratories across the globe? This interactive workshop provides an overview of the APHL Global Health (GH) Program and GH consultancy opportunities. We'll describe APHL's expectations for consultants working internationally and

review consultants' roles and responsibilities. You'll hear stories from the field and participate in exercises on cultural sensitivity, diplomacy and travel safety. Discover how consulting can make a difference, not only for the country but for you and your laboratory. Note: workshop attendance does not guarantee immediate consulting opportunities but includes you in a pool of consultants to be engaged as needed and not all consulting opportunities involve travel.

NOTE: This is a full-day preconference workshop with a separate registration. It is complimentary but there is a limit of 40 attendees.

3:00 pm – 7:00 pm Registration

Grand Ballroom ABC Pre-function

Monday, May 6, 2024

7:30 am – 5:30 pm Registration

Grand Ballroom ABC Pre-function

8:00 am – 11:30 am Preconference Workshops ▼

Laboratory Design Matters: Improving Biosafety and Biosecurity Through Efficient Facility Design, Maintenance and Risk Assessment Practices

(Part 2) **QLM** **SLS** **MLD** **QMS**

Room 102AB

Note: This is a part two of a 1.5-day preconference workshop with a separate registration and fee of \$449. The entire workshop must be attended to receive P.A.C.E.® credits. There is a limit of 40 attendees.

Nonverbal Essentials for Success: Helpful Strategies for Scientific and Technical Communicators **COM** **SLS** **WDT** **COM** **MLD** **WFT**

Room 101DE

588-847-24 • 3.0 contact hours for this session

Moderator: Adam Perkins, Missouri Public Health Laboratory

Speakers:

- Jessica McCall, PhD, University of North Carolina, Greensboro
- Jenni Simon, PhD, University of North Carolina, Greensboro

This workshop will remind participants of the importance of using and understanding professional nonverbal communication in the public safety realm. Participants will learn through mini-lecture presentations combined with experiential learning. This learning will include discussions, scenarios and other activities to promote the application of concepts and help participants set concrete goals for future interactions.

Note: This is a half-day preconference workshop with a separate registration and fee of \$149. There is a limit of 40 attendees.

Communication Essentials: An Experiential Workshop on Messaging to Meet Your Laboratory's Needs **COM** **SLS** **WDT** **COM** **MLD** **WFT**

Room 102DE

588-848-24 • 3.0 contact hours for this session

Speakers:

- Gynene Sullivan, MA, Manager, Communications, Association of Public Health Laboratories
- Michelle Forman, Manager, Media, Association of Public Health Laboratories
- Amanda Cosser, MPH, Manager, Regulatory and Public Policy, Association of Public Health Laboratories

The ability to effectively communicate a message that leaves a lasting impact is an important skill for laboratorians. They need to be able to share their message and gain buy-in for their vision, whether that's for onboarding a new assay, implementing information technology changes, or securing state funding for programmatic or infrastructure updates. This workshop will teach attendees how to craft messaging that creates an emotional response, which is the most impactful type of communication, as well as how to develop a core message and navigate successfully delivering it when the information receiver may have their own agenda. Attendees will learn through presentations and exercises.

Note: This is a half-day preconference workshop with a separate registration and fee of \$149. There is a limit of 40 attendees.

Strategies and Model Practices for Hiring and Retaining the Best PHL

Workforce Talent **COM** **SLS** **WDT** **MLD** **QMS** **WFT**

Room 102C

588-849-24 • 3.0 contact hours for this session

Speakers:

- Carrie Anglewicz, MS, Biosafety Officer, Michigan Department of Health and Human Services, Bureau of Laboratories
- Kelsey Bailey, HR Business Partner, Wisconsin State Laboratory of Hygiene
- Christine Bean, PhD, MBA, MLS(ASCP), Chief Learning Officer, Association of Public Health Laboratories
- Erin Bowles, BS, MLS(ASCP), Clinical Laboratory Network Outreach Coordinator, Wisconsin State Laboratory of Hygiene
- Leah D. Gillis, MS, PhD, HCLD(ABB), Adjunct Professor, University of South Florida, College of Public Health
- Nancy McLean, MILR, Human Resources, Wisconsin State Laboratory of Hygiene
- Kathleen Street, MS, PMP, Manager, Leadership Programs, Association of Public Health Laboratories
- Teresa M. Wolfe, PhD, MLS (ASCP), Subject Matter Expert, Pookela Solutions

Hiring and maintaining top talent is a challenge public health laboratories face. From posting the position to ensuring the candidate adds to the vision of the laboratory, this workshop will provide tips and tools for posting job positions, interviewing applicants and selecting the most qualified applicant. Model practices for employee retention will be covered. Tools for developing and providing onboarding of employees will be discussed followed by ideas for retention in this competitive job market. Activities include reviewing job posting examples; development of interview questions with role-play practice; sharing of onboarding tools; and an introduction to the value of periodic stay interviews.

Note: This is a half-day preconference workshop with a separate registration and fee of \$149. There is a limit of 40 attendees.

11:30 am – 1:30 pm **Lunch** *(on your own)*

11:30 am – 1:00 pm **Laboratory Directors Lunch** *(by invitation only)*

1:30 pm – 2:00 pm **Welcome to Milwaukee**
Grand Ballroom ABC

- Speakers:**
- Tim Southern, PhD, APHL President and Director, South Dakota Public Health Laboratory
 - Megan Crumpler, PhD, HCLD(ABB), APHL President-Elect, APHL 2024 Planning Committee Chair and Director, Orange County (CA) Public Health Laboratory
 - James J. Schauer, PhD, PE, MBA, Director, Wisconsin State Laboratory of Hygiene
 - Sheryl Bedno, MD, DrPH, CIP, Chief Medical Officer and State Epidemiologist, Wisconsin Bureau of Environmental and Occupational Health
 - David Payne, PhD, Director, City of Milwaukee Public Health Laboratory
 - Scott Becker, MS, APHL Chief Executive Officer

2:00 pm – 3:00 pm **Opening Plenary Session**
Grand Ballroom ABC

AI-Powered Public Health: How Labs Can Prepare for the Road Ahead

DAT **QLM** **SLS** **INF** **MLD** **GEN**

588-800-24 • 1.0 contact hour for this session

Moderator: Kelsey Florek, PhD, MPH, Wisconsin State Laboratory of Hygiene

- Speakers:**
- Duncan MacCannell, PhD, MBT, Centers for Disease Control and Prevention
 - Jorge Calzada, MBA, Centers for Disease Control and Prevention
 - Allen Bateman, PhD, MPH, D(ABMM), Wisconsin State Laboratory of Hygiene
 - Jade Wang, MS, New York City Department of Health and Mental Hygiene

Artificial Intelligence (AI) has been advancing rapidly, and Generative AI, in particular, holds immense potential for public health laboratories. This session will delve into how AI technologies, including machine learning, natural language processing and generative models, are shaping the future of public health.

3:00 pm – 3:30 pm **Rapid Poster Presentations**
Grand Ballroom ABC

3:00 pm – 6:30 pm **Exhibit Hall Open**
Exhibit Halls AB

3:30 pm – 4:00 pm **Break**
Exhibit Halls AB

4:00 pm – 5:00 pm

Concurrent Sessions ▼

Next Generation Sequencing Solutions for Healthcare-associated Infections and Antimicrobial Resistance

DAT **DDT** **NGS** **SUR** **GEN** **INF** **MCB**

Grand Ballroom ABC

588-801-24 • 1.0 contact hour for this session

Moderators:

- Kara Moser, PhD, MPH, Centers for Disease Control and Prevention
- Logan Fink, PhD, Virginia Department of General Services

Identifying and Updating Novel AMR Gene Variants

Logan Fink, PhD, Virginia Department of General Services

Automated Bacterial Genomic Surveillance with BigBacter

Jared Johnson, PhD, MSc, Washington State Department of Health

Long-read Sequencing for HAI Investigations: Challenges in Interpretation and Communication of Results with Epidemiologists

Catharine Prussing, PhD, MHS, Wadsworth Center, New York State Department of Health

This session aims to communicate how NGS technologies are being utilized in public health labs to address HAI/AR threats and highlight cutting-edge approaches for analysis and integration of NGS data for public health action.

Hunting for a Needle in a Stack of Needles — Non-targeted Analysis Across Public Health Laboratories

DAT **DDT** **NGS** **SUR** **GEN** **INF** **MCB**

Room 102AB

588-802-24 • 1.0 contact hour for this session

Moderator: Shane Wyatt, Virginia Division of Consolidated Laboratory Services

Speakers:

- Martin Bevan, PhD, Minnesota Department of Health
- Sean Wang, DVM, PhD, Minnesota Department of Health
- Michael Perry, MS, MEd, Wadsworth Center, New York State Department of Health

This session will compare different forms of non-targeted testing across public health laboratories, including high-resolution mass spectrometry (HRMS) in environmental and clinical testing and Next Generation Sequencing (NGS) in infectious diseases, including a project looking at threat-agnostic sequencing in preparedness and response. Individual approaches to how data from each of these different non-targeted testing technologies is handled, analyzed, managed and used will be discussed, as well as how the data generated from non-targeted testing methods is or can be validated and shared across laboratories or networks.

Get the Lead Out! Public Health, Laboratory and Medical Initiatives to Identify and Reduce Pediatric Lead Exposure

DDT NBS CHM GEN

Room 102C

588-803-24 • 1.0 contact hour for this session

Moderator: Julianne Nassif, MS, Association of Public Health Laboratories

Childrens' Blood Lead Levels: How Low Should (Can) We Go?

Mary Jean Brown, BSN, ScD, Harvard Chan School of Public Health

The CDC Blood Lead Reference Value (BLRV) Lowered to 3.5 µg/dL: Implications for Laboratories

Patrick J. Parsons, PhD, Wadsworth Center, New York State Department of Health

3.5µg/dL — Toxicologically Meaningful? A Pediatrician's Perspective

Morri Markowitz, MD, Montefiore Medical Center/Einstein College of Medicine

Get the Lead Out! will provide insights into the current landscape of pediatric lead testing, public health initiatives to reduce exposures, laboratory challenges and state of the science for clinical case management.

When It Absolutely, Positively Has to Meet Specifications: The North Carolina Model for Pre-Analytical Systems Compliance

DAT DDT PAR QLM GEN INF QMS

Room 102DE

588-804-24 • 1.0 contract hour for this session

Moderator: Scott Shone, PhD, HCLD(ABB), North Carolina State Laboratory of Public Health

Speakers:

- Shonetta Smith, PhD, NRCC (TC), North Carolina State Laboratory of Public Health
- Susan Orton, PhD, D(ABMLI), North Carolina State Laboratory of Public Health
- William Glover, PhD, D(ABMM), MLS(ASCP), North Carolina State Laboratory of Public Health

During this session, three subject matter experts will present a model program for pre-analytical system performance. The presentations will discuss the North Carolina State Laboratory of Public Health's response to a regulatory audit that revealed opportunities for quality improvements that necessitated the establishment of a system to ensure clinical specimen quality from collection to receipt in the laboratory; that met regulatory requirements. Topics reviewed by the speakers will include 1) collection of critical data elements, use of Electronic Test Orders and Results (ETOR), monitoring time and temperature for specimen transport, and developing standard operating procedures and training materials; 2) educational and outreach activities, communication with specimen submitters, and development of infographics; and 3) Continuous Quality Improvements (CQI) efforts to assure regulatory compliance.

Preventing the Next Infant Formula Crisis: Public Health Actions to Control

Cronobacter **DDT** **FSS** **SUR** **INF** **MCB** **RS**

Room 103C

588-805-24 • 1.0 contact hour for this session

Moderator: Nandhu Balakrishnan, MS, PhD, Georgia Public Health Laboratory

Speakers:

- Christine Lee, PhD, Centers for Disease Control and Prevention
- Cathy Lord, State Hygienic Laboratory at the University of Iowa
- Wendy McMahon, MS, US Food and Drug Administration

Attendees will learn about the implications of the Council of State and Territorial Epidemiologists' (CSTE) position statement on invasive *Cronobacter* species in infants, APHL and CSTE efforts to support diagnosis, characterization, investigation, reporting and control of infant *Cronobacter*, and aspects of FDA's *Cronobacter* Prevention Strategy that will enhance the safety of powdered infant formula, including remedies to supply chain shortages that arise when vulnerable populations lose a key source of their nutrition.

5:00 pm – 6:30 pm

Exhibit Halls AB

Welcome Reception

Sponsored by Roche Diagnostics

5:30 pm – 6:00 pm

Exhibit Halls AB

Poster Session 1

Authors of posters 1–138 available to discuss posters.

Tuesday, May 7, 2024

6:30 am – 6:00 pm

Grand Ballroom ABC Pre-function

Registration

6:30 am – 8:00 am

Room 102 Pre-function

Break

7:00 am – 7:30 am

Innovate! Sessions

6 company presentations TBD

8:00 am – 8:30 am

Innovate! Sessions

6 company presentations TBD

8:30 am – 9:00 am

Grand Ballroom ABC

Break

9:00 am – 10:00 am Plenary Session

How Public Health Actions Are Fueled by Regulatory Science

FSS **OHA** **SUR** **EMR** **MLD** **SRV** **RS**

Grand Ballroom ABC

588-806-24 • 1.0 contact hour for this session

Moderator: Scott Becker, MS, Chief Executive Officer, Association of Public Health Laboratories

Speakers:

- Denise Toney, PhD, Laboratory Director, Virginia Division of Consolidated Laboratory Services
- Greg Carroll, MBA, Director, Technical Support Center, Office of Ground Water and Drinking Water, US Environmental Protection Agency
- TBD, US Food and Drug Administration

This fireside chat is an opportunity to gain insights into the indispensable functions of laboratories in the areas of environmental protection, water quality and food testing. Attendees will explore the pivotal role of regulatory science in safeguarding public health and promoting compliance with essential regulations and hear from a consolidated state laboratory that produces data serving both regulatory and non-regulatory purposes.

10:00 am – 10:30 am Break

Exhibit Halls AB

10:00 am – 6:30 pm Exhibit Hall Open

Exhibit Halls AB

**10:30 am – 11:30 am Dr. Katherine Kelley
Distinguished Lecture**

Grand Ballroom ABC

The Deadly Rise of Anti-Science **COM** **DAT** **SLS** **COM** **MLD**

588-807-24 • 1.0 contact hour for this session

Moderator: Megan Crumpler, PhD, HCLD(ABB), APHL President-Elect and Orange County (CA) Public Health Laboratory

Speaker: Peter Hotez, MD, PhD, DSc (hon), FASTMH, FAAP

Co-Director, Texas Children's Hospital Center for Vaccine Development and Dean, National School of Tropical Medicine, Baylor College of Medicine

Dr. Peter J. Hotez, a Nobel Peace Prize-nominated physician and scientist, is one of the most trusted voices on the pandemic and who also became one of the main targets of anti-science rhetoric that gained traction through conservative news media. Dr. Hotez will share his story of how the anti-vaccine movement grew into a dangerous and prominent anti-science element in American politics and will describe the devastating impacts it has had on Americans' health and lives. As a scientist who has endured antagonism from anti-vaxxers and been at the forefront of both essential scientific discovery and advocacy, he explains how anti-science became a major societal and lethal force.

11:30 am – 12:00 pm Book Signing

Exhibit Halls AB

Dr. Hotez and “The Deadly Rise of Anti-Science”
Complimentary copies provided.

11:30 am – 1:00 pm Lunch *(in the exhibit hall)*

Exhibit Halls AB

12:00 pm – 12:30 pm Poster Session 2

Exhibit Halls AB

Authors of posters 139–276 available to discuss posters.

1:00 pm – 2:00 pm Concurrent Sessions ▼

Using the Past to Prevent Future Laboratory-acquired Infections

COM DAT SLS EMR QMS

Grand Ballroom ABC

588-808-24 • 1.0 contact hour for this session

Moderator: Shoolah Escott, MS, MT(ASCP), ABSA International

Speakers:

- Michael Pentella, MS, PhD, D(ABMM), State Hygienic Laboratory at the University of Iowa
- Michael Perry, MS, MS Ed, Wadsworth Center, New York State Department of Health
- Erin Bowles, BS, MT(ASCP), University of Wisconsin-Madison

This breakout session will demonstrate how to use real-life scenarios from the American Biological Safety Association International (ABSA) Laboratory-Acquired Infections Database (LAI DB) as a learning and training tool to help prevent laboratory-acquired infections, exposures, and biosafety (BS) incidents to both known and emerging (emer.) pathogens (path.). Participants will be shown how to use the Association of Public Health Laboratories' (APHL) “Exposure Assessment and Symptom Monitoring Guide” (EA Guide). Presenters will also discuss the importance of performing a root cause analysis (RCA) after a laboratory incident, or near miss, to help revise the risk assessment (RA), identify biosafety plan gaps, and determine additional mitigation measures to reduce risk and improve laboratory biosafety.

Wastewater Surveillance at Long-term Care Facilities: Perspectives on Feasibility and Antimicrobial-resistant Target Detection

DDT SUR WSU EMR MCB SRV

Room 102AB

588-809-24 • 1.0 contact hour for this session

Moderator: Florence Whitehill, DVM, MPH, Centers for Disease Control and Prevention

Speakers:

- Angela Coulliette-Salmond, PhD, Centers for Disease Control and Prevention
- Jennifer Weidhaas, PhD, PE, University of Utah
- Michael Lin, MD MPH, Rush University Medical Center

Perspectives from US wastewater surveillance efforts at long-term care facilities (LTCFs) regarding feasibility and antimicrobial-resistant (AR) target detection will be shared. An open

forum will be encouraged to ask questions, obtain feedback and discuss topics associated with the potential expansion of wastewater surveillance at LTCFs with conference attendees.

Mercury? It's not ELEMENTary at All, My Dear **AVE** **FSS** **SUR** **CHM** **SRV**
Room 102C

588-810-24 • 1.0 contact hour for this session

Moderator: Kristin Dortch, MS, Centers for Disease Control and Prevention

New Jersey's Efforts to Address the Mercury Public Health Gaps
Eric Bind, MPP, New Jersey Department of Health

TBD presentation

Jessica Nelson, PhD, MPH, Minnesota Department of Health
Lori Copan, MPH, RPh, California Department of Public Health

It's time we all pay more attention to mercury. Mercury is a harmful legacy contaminant that is commonly found in fish, seafood and consumer products. This session describes the health risks associated with mercury exposure, the surprisingly high prevalence of mercury around the country, what efforts are being done by state departments of health to address exposures, the current gaps in responses and why the field of public health cannot afford to ignore these issues any longer.

Implementing and Sustaining Parasitic Disease Testing

AVE **OHA** **SUR** **MCB** **SRV**

Room 102DE

588-811-24 • 1.0 contact hour for this session

Moderator: Brian Raphael, PhD, Centers for Disease Control and Prevention

Diagnostic Parasitology Support and Resources at CDC
Katie Bowden, PhD, Centers for Disease Control and Prevention

Domestic Parasite Surveillance: New Tools, New Parasites and How You Can Participate
Joel Barratt, PhD, Centers for Disease Control and Prevention

Serology of Parasitic Diseases at the New York State Department of Health
William Lee, PhD, Wadsworth Center, New York State Department of Health

This session will provide information on resources needed to conduct parasitic disease testing for both clinical diagnosis and surveillance activities. The session will also cover overcoming potential challenges associated with implementing parasitic disease testing.

Charting the Future: Leveraging National Competency Standards in a Cutting-edge Regulatory and Laboratory Training System

FSS **PAR** **SLS** **EMR** **MLD** **RS**

Room 103C

588-812-24 • 1.0 contact hour for this session

Moderator: Christopher Weiss, International Food Protection Training Institute

Integrated Food Safety System (IFSS) Regulatory and Laboratory Training Systems (RLTS)
Alan Tart, US Food and Drug Administration

Laboratory National Competency Standard

Robyn Randolph, Association of Public Health Laboratories

Practical Applications of the Laboratory National Competency Standard

Shane Wyatt, Virginia Division of Consolidated Laboratory Services

FDA's five-year strategic plan focuses on the development of a National Regulatory and Laboratory Training System (RLTS) that supports the goals of an integrated food safety system (IFSS). Grounded on a set of validated competencies housed in a National Competency Standard (NCS), the RLTS will revolutionize human and animal food regulatory training conducted by FDA and IFSS partners.

2:00 pm – 2:30 pm

Rapid Poster Presentations

Grand Ballroom ABC

2:00 pm – 3:00 pm

Break

Exhibit Halls AB

3:00 pm – 4:00 pm

Concurrent Sessions ▼

Revolutionizing Enteric Surveillance: The Role of HMAS in Easing the Burden of Pathogen Isolation

DDT

NGS

SUR

MCB

SRV

Grand Ballroom ABC

588-813-24 • 1.0 contact hour for this session

Moderator: Kirsten Larson, MPH, Association of Public Health Laboratories

Speakers:

- A. Jo Williams-Newkirk, PhD, Centers for Disease Control and Prevention
- William A. Glover II, PhD, D(ABMM), MLS(ASCP), North Carolina Department of Health and Human Services
- Daniel Mallal, MS, Colorado State Public Health Laboratory

The rapid development and implementation of culture independent diagnostic tests (CIDs) continues to threaten public health surveillance of enteric pathogens. The burden and cost of isolating and identifying bacterial isolates from CIDT specimens has largely fallen to public health laboratories in recent years. The uptake of CIDs will eventually outpace public health laboratory resources effectively ending public health's ability to track enteric illness trends and detect and respond to outbreaks. It will be critical to pivot to culture-independent next-generation sequencing methods to continue to support enteric disease surveillance and outbreak detection.

The Radiochemistry Workforce — No Longer Decaying

AVE

DDT

FSS

CHM

MCB

SHC

Room 102AB

588-814-24 • 1.0 contact hour for this session

Moderator: Jack Bennett, Lawrence Livermore National Laboratory

Speakers:

- Jonathan (Jon) Button, Centers for Disease Control and Prevention

- Stephanie Healey, US Food and Drug Administration
- Dustin May, State Hygienic Laboratory at the University of Iowa
- Shane Knockemus, US Environmental Protection Agency

This session will provide the audience with information about activities underway to alleviate the shortage of trained radiochemists; It will describe the radiochemistry workforce training program sponsored by APhL that will provide a comprehensive training program to ensure that there will be adequate laboratory capacity. It will also describe the activities FDA has taken under the LFFM to ensure the safety of the nation's food supply, and information on recent activities at CDC on the LRN-R.

Enabling Public Health Electronic Test Ordering and Resulting Through Intermediaries

DAT **INF** **SLS** **GEN** **INF** **MLD**

Room 102C

588-815-24 • 1.0 contact hour for this session

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

Speakers:

- Alyson Saadi, Louisiana Department of Health–Office of Public Health Laboratory
- Frank Delin, State Hygienic Laboratory at the University of Iowa
- Michelle Meigs, MBA, Association of Public Health Laboratories

The nation depends on public health laboratories to conduct critical and complex tests to keep our country safe from emergent threats, environmental contaminants, and food-borne illnesses. And yet, in 2024, laboratories are still grappling with manual, paper-based and outdated processes that slow the exchange of vital information between the laboratory and its partners. While recognizing the benefits of enhancing electronic messaging capabilities, laboratories too often do not have the workforce, resources or infrastructure needed to do so.

The Changing Environment of Laboratory-based Antimicrobial Resistance Surveillance Reporting — Looking Domestically and Globally for Solutions

BIOM **DAT** **INF** **SLS** **INF** **SRV**

Room 102DE

588-816-24 • 1.0 contact hour for this session

Speakers:

- Matthew McCarroll, MS, MSPH, Association of Public Health Laboratories
- Laura Carlton, MPH, Association of Public Health Laboratories
- Kelly Oakeson, PhD, Utah Public Health Laboratory

This session details data mapping and routing of one-to-one connections between laboratory information systems and AMR surveillance systems, the burden on the laboratory to build and maintain these connections, and solutions to centralize data.

Conundrums for Laboratorians: Regulatory and Ethical Considerations for Secondary Uses of Identifiable Biospecimens

BIOM PAR SLS ETH GEN MLD RS

Room 103C

588-817-24 • 1.0 contact hour for this session

Moderator: Robert Chirila, BA, BS, Centers for Disease Control and Prevention

Speaker: Julie Chatt-Soroka, MPH, Centers For Disease Control and Prevention

This session will help laboratorians learn responsible uses of previously collected biospecimens where no informed consent was obtained from the individual when planning and conducting scientific activities that may benefit from secondary use. After the session, they should be familiar with the regulations that establish parameters for secondary use when consent is not provided and have an awareness of other ethical matters to consider for scientific integrity.

4:00 pm – 4:30 pm Break

Exhibit Halls AB

4:30 pm – 5:30 pm Concurrent Sessions ▼

The Long and Winding Road — Transitioning from AR WGS Surveillance to Clinical Reporting

BIOM NGS PAR MCB MLD SRV

Grand Ballroom ABC

588-818-24 • 1.0 contact hour for this session

Moderator: Samantha Giffen, PhD, Centers for Disease Control and Prevention

Maintaining and Improving Clinical AR WGS Testing in the Northeast AR Lab Network
Kimberlee Musser, PhD, Wadsworth Center, New York State Department of Health

TBD presentation

James Posey, PhD, Centers for Disease Control and Prevention
TBD, US Food and Drug Administration

Many labs are considering the importance and the clinical reporting of antimicrobial resistance (AR) gene variants, bacteria species identification or multilocus sequence types (MLST). When considering clinical reporting, it is important for the lab to consider the regulatory framework (CAP, CLIA, etc) in which their lab is certified as there can be nuances between them.

Rabies: Ancient Disease and Modern Problem

AVE DDT SUR GEN MCB

Room 102AB

588-819-24 • 1.0 contact hour for this session

Moderator: Michael Pentella, MS, PhD, D(ABMM), State Hygienic Laboratory at the University of Iowa

Emerging Technologies and Potential Rabies Detection Algorithms

Sharon Messenger, MS, PhD, California Department of Public Health

Hot Topics and Tips for Rabies Laboratorians

April D. Davis, DVM, PhD, New York State Department of Health

Biosafety in the Rabies Laboratory

Michael Pentella, MS, PhD, D(ABMM), State Hygienic Laboratory at the University of Iowa

Public health laboratories serve as the main resource for rabies detection testing. This session will review current issues regarding rabies testing.

The Evolving Role of Non-targeted Analysis: Advances and Perspectives

FSS | PAR | SLS | CHM | GEN | MLD

Room 102C

588-820-24 • 1.0 contact hour for this session

Moderator: John Dimandja, US Food and Drug Administration

Speakers:

- Kate Rimmer, PhD, National Institute of Standards and Technology
- Erica Bakota, MA, PhD, US Food and Drug Administration
- Jon Sobus, PhD, US Environmental Protection Agency
- Hubert Vesper, MS, PhD, Centers for Disease Control and Prevention

Recent advances in analytical technologies (such as high-resolution mass spectrometry) have enabled the development of emerging workflows for non-targeted analysis (NTA) in a number of important application areas. This session will focus on presenting current efforts in federal government laboratories (NIST, FDA, EPA, and CDC) to incorporate NTA methods for the enhanced screening of samples to identify and monitor new target analytes in a proactive manner.

(Not So) Odd Couples: The Power of Collaboration for Rapid Response to Emerging Threats

COM | COV | PAR | COM | MLD

Room 102DE

588-821-24 • 1.0 contact hour for this session

Moderator: Duncan MacCannell, PhD, Centers for Disease Control and Prevention

Speakers:

- Kara Levinson, PhD, MPH, D(ABMM), Tennessee Department of Health
- Leslie Wolf, PhD, HCLD(ABB), Louisville Metro Department of Public Health and Wellness
- Efrem Lim, PhD, Arizona State University
- Kayley Janssen, PhD, Wisconsin State Laboratory of Hygiene
- Rita Stinnet, PhD, MHS, Illumina Medical Affairs

New partnerships between public health laboratories, academic laboratories, clinical laboratories, service labs and vendors drove innovation in laboratory testing and helped scale response during the COVID-19 pandemic. In this case study-based panel discussion, laboratory leaders will share details of their successful collaborations with partners outside of the APHL membership, the challenges they have experienced and their determinants of success.

Food Fraud: What You Don't Know Can Kill You!

AVE | FSS | OHA | PAR | GEN | MLD | SRV | RS

Room 103C

588-822-24 • 1.0 contract hour for this session

Moderator: Robyn Randolph, MS, Association of Public Health Laboratories

A Fatal Diet Nut Poisoning Case in Minnesota Foreshadows a Growing Problem
Justin Corcoran, MD, Medical College of Wisconsin

Leveraging High-resolution Mass Spectrometry to Investigate a Diet Nut Poisoning with Global Implications

Sinisa Urban, PhD, Maryland Department of Health Laboratories Administration

Regulatory Basis and Challenge of Regulating Online Food Sales: Diet Nut Poisonings
Katherine Arnold, US Food and Drug Administration

Food fraud is the deliberate substitution of foods with something they are not for economic gain, but situations turn deadly when the substitute is poisonous. This session will describe the clinical discovery of mislabeled 'diet nuts' through a tragic lethal case in Minnesota, a public health food fraud investigation in Maryland that established the product's true identity and exposed dangerous blind spots in laboratory methods, and the successes and challenges of the widespread regulatory action FDA is taking to prevent further poisonings.

5:30 pm – 6:30 pm Networking Reception
Exhibit Halls AB

Wednesday, May 8, 2024

7:00 am – 5:30 pm Registration
Grand Ballroom ABC Pre-function

7:00 am – 8:00 am Break
Room 102 Pre-function

7:30 am – 8:30 am Roundtable Sessions ▼

Biosecurity Mastery: Navigating Critical Scenarios Through Exercises

BIOS SLS WDT EMR SEC WFT

Room 101AB

588-823-24 • 1.0 contact hour for this session

Speakers:

- Michael Perry, MS, MS Ed, Wadsworth Center, New York State Department of Health
- Drew Fayram, MS, CBSP(ABSA), RBP(ABSA), Merrick & Company
- Stormy Chester, BS, Association of Public Health Laboratories

Explore the Association of Public Health Laboratories (APHL) newly developed biosecurity toolkit designed to enhance biosecurity measures in laboratories. Participate in a tabletop exercise using the toolkit scenarios, contribute your insights and engage in discussions on ongoing biosecurity efforts to collaboratively shape the future of laboratory biosecurity practices. Join this interactive session to foster knowledge exchange and strengthen your ability to identify and mitigate potential biosecurity risks.

The Impact of Bias in the Hiring Process SEI WDT ETH MLD WFT

Room 101C

588-824-24 • 1.0 contact hour for this session

Moderator: Marilyn Bibbs Freeman, PhD, M(ASCP), Virginia Division of Consolidated Laboratory Services

Speaker: Shonetta Smith, PhD, NRCC (TC), North Carolina State Laboratory of Public Health

This session will begin with an interactive activity to uncover personal bias that might influence hiring decisions. The panel will openly discuss how affinity bias can influence judgement and will suggest strategies to avoid a candidate selection that aligns with personal preference instead of the criteria of the job.

Know Before They Go! Field Experience Using the Knowledge Retention

Toolkit SLS WDT MLD QMS WFT

Room 101DE

588-825-24 • 1.0 contact hour for this session

Moderator: Jack Bennett, BS, Lawrence Livermore National Laboratory

Speakers:

- Kathryn Wangsness, MHA, Arizona Public Health Laboratory
- Kara Levinson, PhD, MPH, D(ABMM), Tennessee Public Health Laboratory

With the rapid turnover of the workforce, sustaining organizational knowledge is even more critical to avoid loss of productivity, errors and rework in day-to-day operations as well as develop subject matter expertise. During this session, presenters will share their experiences on how they used the APHL Knowledge Retention Toolkit to support retention of knowledge, career progression and succession planning. New tool features will also be covered.

It's Getting Hot in Here: Addressing Temperature and Other Test-specific Requirements BIOS DDT QLM GEN QMS

Room 102AB

588-826-24 • 1.0 contact hour for this session

Moderator: LeAnne Burns, BS, Georgia Public Health Laboratory

Speaker: Susan Orton, PhD, D(ABMLI), North Carolina State Laboratory of Public Health

Through case studies and expert insights, this session will highlight implementation strategies that meet the complex regulatory compliance of monitoring sample, equipment and laboratory environment, such as temperature and humidity.

Effective Communication for Aspiring Laboratory Leaders

COM SLS WDT COM WFT

Room 102DE

588-827-24 • 1.0 contact hour for this session

Moderator: Jade Wang, MS, New York City Public Health Laboratory

Conflict Resolution

Derek Seidel, PhD, Texas Department of State Health Services

Empowering Colleagues

Yoshinori Nakazawa, PhD, Centers for Disease Control and Prevention

Relationship Building

Lucas Beversdorf, MS, PhD, City of Milwaukee Health Department

This session will focus on the Leadership Development Toolkit created by Cohort 17 of the Association of Public Health Laboratories (APHL) Emerging Leader Program (ELP), describing how effective communication skills can assist in empowering laboratorians to transition into the next generation of public health leaders.

8:30 am – 9:00 am Break

Grand Ballroom ABC Pre-function

9:00 am – 10:30 am Awards Ceremony and Breakfast

Grand Ballroom D

Sponsored by Hologic

10:00 am – 3:30 pm Exhibit Hall Open

Exhibit Halls AB

10:30 am – 11:00 am Break

Exhibit Halls AB

11:00 am – 12:00 pm Concurrent Sessions ▼

Advancing Laboratory Testing for Overdose Surveillance: Implementation of the Overdose Biosurveillance Strategy

BIOS **SLS** **PAR** **CHM** **SRV**

Grand Ballroom ABC

588-828-24 • 1.0 contact hour for this session

Moderator: Ewa King, PhD, Association of Public Health Laboratories

CDC Division of Overdose Prevention's Approach to Overdose Surveillance and Prevention

Amanda J. Smith, MPH, Centers for Disease Control and Prevention

Overdose Biosurveillance Task Force: Pivoting to Meet the Needs for Polysubstance Testing in Public Health Labs

Amy Miles, BS, Wisconsin State Laboratory of Hygiene

Building a Laboratory Surveillance Program from the Ground Up: Vermont's Experience in Entering the National Opioid Biosurveillance System

Jill Warrington, MD, PhD, Vermont Department of Health Laboratory

This session will provide an overview of the drug overdose crisis in the United States, focusing on the substances driving the trends observed, introduce the work of the Overdose Biosurveillance Task Force and the new biosurveillance strategy for polysubstance use, and describe how the new strategy can be implemented by public health laboratory partners.

Trials and Tribulations: Packaging and Shipping High-Consequence and Emerging Threats

BIOS **PAN** **SLS** **EMR** **GEN** **SEC**

Room 102AB

588-829-24 • 1.0 contact hour for this session

Moderator: Jill Sutton, Association of Public Health Laboratories

Speakers:

- Christina Egan, PhD, CBSP, Wadsworth Center, New York State Department of Health
- Jason Wholehan, Michigan Department of Health and Human Services, Bureau of Laboratories

Strict adherence to guidelines for the proper handling, processing, and packaging and shipping is paramount to ensuring that sample integrity as well as the safety of laboratory personnel and the public are not compromised. During this session, speakers will describe the vital role that laboratories fulfill in protecting the public's health through safe handling and transportation of high-consequence and emerging pathogens, such as select agents and toxins, shipping challenges during responses, best practices for regulatory compliance and conducting continuous training, and highlight valuable tools and resources for packaging and shipping emerging threats.

Use of Environmental Microbiology Data in Outbreak Response — Visions, Stories and Resources

BIOS **DAT** **SLS** **WDT** **EMR** **MCB** **SEC**

Room 102C

588-830-24 • 1.0 contact hour for this session

Moderator: Mia Mattioli, MS, PhD, Centers for Disease Control and Prevention

***A Naegleria fowleri* Outbreak Associated with a Splashpad in Arkansas**

Katie Seely, PhD, HCLD(ABB), Arkansas Department of Health

Microbial Source Tracking Helps Link Campylobacteriosis Outbreak to Municipal Water in Nebraska

Rachael Birn, MPH, Nebraska Department of Health and Human Services/University of Nebraska Medical Center

Pairing Environmental, Epidemiological and Laboratory Methods to Investigate *Legionella* Disease Outbreak

Nárjara Veras Grossmann, DVM, MS, MPVM, a-IPC, Napa County Health and Human Services, Public Health

From preparedness to identification of causal microorganisms, infectious microbial disease outbreaks associated with environmental systems present unique challenges to jurisdictions. In this session, we will explore state responses to past microbial disease outbreaks caused by *Naegleria fowleri*, *Campylobacter* and *Legionella*. We will also discuss federal and APHL resources and strategies for the use of environmental microbiology data to support water-related outbreak response and preparedness.

Hot Topics in Syphilis and Gonorrhea Testing DDT SUR GEN MCB

Room 102DE

588-831-24 • 1.0 contact hour for this session

Moderator: Randal Fowler, PhD, Tennessee Department of Health

Speakers:

- Kara Mitchell, PhD, Wadsworth Center, New York State Department of Health
- Emily Travanty, PhD, Colorado Department of Public Health and Environment
- Tyler Maruca, MS, Maryland Department of Health Laboratories Administration

This session will cover relevant topics in laboratory testing for Syphilis and Gonorrhea in public health laboratories (PHLs). Speakers will describe how their laboratories overcome diagnostic testing and workflow challenges that include: lack of routine tests for the direct detection of *Treponema pallidum*, the causative agent of syphilis; cumbersome syphilis testing algorithms that rely upon manual tests and that can be difficult to interpret in certain individuals; and the emergence of drug resistance in the fastidious organism *Neisseria gonorrhoeae* necessitating a strong surveillance response.

Contamination Chronicles: Unmasking the Unusual in Public Health

Investigations CHM MCB SRV AVE DDT FSS PAR RS

Room 103C

588-832-24 • 1.0 contact hour for this session

Moderator: Cynthia M. Mangione, New York State Department of Agriculture and Markets

What Not to Put on Your Slip-n-Slide

Kelly Oakeson, PhD, Utah Public Health Laboratory

TBD presentation

Megan Davis, MS, South Carolina Department of Health Environmental and Control

It's Always Someone You Know: Leveraging LFFM to Investigate Food Adulterations

Amanda Woods, MS, Virginia Division of Consolidated Laboratory Services

Public health laboratories are often involved in outbreak investigations due to microbial or chemical contamination. In some cases, the investigation concerns reoccurring products or contaminants but in others, the contamination is in unique products and/or from intriguing sources. In this session, unusual and odd investigations will be presented. The speakers will relay the story of peculiar contaminations and resulting public health implications. In some cases, the investigations were multi-jurisdictional, including state and federal regulatory programs. Stories could include an *E. coli* O157:H7 outbreak linked to the use of a backyard slip and slide, an *L. mono* outbreak linked to "chicken" ice cream, and suspected poisoning linked to several household products.

12:00 pm – 1:30 pm **Lunch** (in the exhibit hall)

Exhibit Halls AB

1:30 pm – 2:30 pm

Plenary Session

Grand Ballroom ABC

Wastewater Surveillance for Public Health: Rising to the Challenge

COV **DDT** **WSU** **CHM** **EMR** **RES**

588-833-24 • 1.0 contact hour for this session

Moderator: Rory Welsh, PhD, Centers for Disease Control and Prevention

Updating the Status of Wastewater Testing on a National Level

Rory Welsh, PhD, Centers for Disease Control and Prevention

Wastewater Surveillance Beyond COVID-19: Considerations and Challenges of Implementing Surveillance for New Targets

Dagmara Antkiewicz, PhD, Wisconsin State Laboratory of Hygiene

Digging Deeper into Wastewater SARS-CoV-2 Sequencing Surveillance Using Novel and Recurring Mutation Monitoring

Shannon Matzinger, PhD, Colorado Department of Public Health and Environment

Data to Action: Wastewater and Public Health Action in Houston, TX

Rebecca Schneider, MS, Houston Health Department

Technical Challenges in Expending Wastewater Sequencing While Meeting the Needs of the Epidemiologists and Stakeholders

Eric L. Vaughn, DrPH, MPH, Washington, DC DFS Public Health Laboratory

The session will provide an overarching view of wastewater surveillance, including a high-level overview of its status, challenges and its potential growth for public health action. The session will also focus on case studies and success stories from various laboratories, demonstrating successful implementation of wastewater testing in different contexts, with a special emphasis on technology, data interpretation and epidemiological relevance.

2:30 pm – 3:30 pm

Break and Raffle (3:00 pm)

Exhibit Halls AB

3:30 pm – 4:30 pm

Concurrent Sessions ▼

Weird Science: Solving Public Health Puzzles

BIOS **OHA** **SUR** **EMR** **MCB** **SRV**

Grand Ballroom ABC

588-834-24 • 1.0 contact hour for this session

Moderator: Anthony Tran, DrPH, MPH, D(ABMM), California Department of Public Health

Speaker: Marie-Claire Rowlinson, PhD, D(ABMM), Florida Bureau of Public Health Laboratories

The public health laboratory is often the laboratory of last resort for diagnosis of unusual cases, detection of emerging infectious diseases and outbreaks. In the ID Committee's seventh year coordinating this popular quiz-based session, we are changing up the format to allow more audience participation! Instead of a panel of experts, our hosts will present a series of unusual public health cases and we will challenge the audience to answer the questions through an interactive format. Cases will be collated and presented by two cohosts, who will ensure appropriate content and delivery. Will the audience be able to solve the public health laboratories' most challenging infectious disease puzzles?

PFAS by the Numbers: A Story of 6, 29 and 12,034

AVE DDT OHA PAR CHM GEN

Room 102AB

588-835-24 • 1.0 contact hour for this session

Moderators:

- Michael Schueller, MS, State Hygienic Laboratory at the University of Iowa
- Shane Wyatt, BS, Virginia Division of Consolidated Laboratory Services

A Drinking Water Utility's Perspective on Compliance Testing Under the New PFAS Rule
Hunter Adams, MS, Cypress Environmental Laboratory

An Update on UCMR5 — What Is the True Prevalence of PFAS?
Gregory Carroll, MBA, US Environmental Protection Agency

Towards Testing for 12,034 PFAS: An Historic EPA-State Collaboration
Sinisa Urban, PhD, Maryland Department of Health Laboratories Administration

Per- and polyfluoroalkyl substances (PFAS) are a group of >10,000 synthetic, 'surface-acting' chemicals that have widespread commercial uses, but also persist for years in the environment and confer a myriad of detrimental health effects. This session will detail how EPA and states are collaborating to regulate six PFAS, defining the prevalence of 29 PFAS and developing methods to detect all 12,034 PFAS analytes.

Elevating Workforce Strategies and Uniting Efforts for a Stronger Workforce: Recruitment, Retention, Diversity and Visibility

PAR SLS WDT MLD WFT

Room 102C

588-836-24 • 1.0 contact hours for this session

Moderator: Edna Garcia, American Society for Clinical Pathology

Speaker: Lotte Mulder, PhD, American Society for Clinical Pathology

In today's dynamic professional landscape, the ability to attract, retain and cultivate a diverse and visible laboratory workforce is paramount. This course combines these essential elements, delving into innovative approaches and best practices designed to enhance laboratory workforce effectiveness. This session emphasizes the importance of collaboration and cohesion in achieving a robust and resilient laboratory workforce, exploring the intricacies of recruitment and retention with a strong emphasis on diversity and visibility. Attendees will gain insights into the latest strategies, tools and success stories from experts in the field, equipping them to elevate their own laboratory workforce initiatives and unite their efforts for a stronger, more vibrant workforce.

Building Capacity and Sustainable Laboratories Through Twinning in Indonesia

PAR SLS WDT MLD WFT

Room 102DE

588-837-24 • 1.0 contact hour for this session

Moderator: Shannon Emery, MSPH, Association of Public Health Laboratories

Speakers:

- Sandip Shah, PhD, MSc, HCLD(ABB), M(ASCP), Michigan Department of Health and Human Services
- Marty Soehnlen, PhD, MPH, HCLD(ABB), Michigan Department of Health and Human Services
- Frances Pouch Downes, DrPH, Michigan State University

In collaboration with the Ministry of Health of Indonesia, APHL, through cooperative agreement funding provided by the CDC, has initiated a partnership program between the Yogyakarta and Palembang Public Health Laboratories in Indonesia and the Michigan State Public Health Laboratory. Representatives from Michigan will elaborate on the development of this partnership, the in-person exchanges and the webinars that have collectively enhanced the laboratory capacity of all three facilities.

Save Money, Save Time, Be More Efficient: Process Improvement for Enteric Pathogens

DDT QLM SLS GEN MCB QMS RS

Room 103C

588-838-24 • 1.0 contract hour for this session

Moderator: Stephanie Abromaitis, PhD, California Department of Public Health

Streamlining Workflows for Enteric Pathogens

Dave Boxrud, MS, Centers for Disease Control and Prevention

Continuous Quality Improvement and Its Impact on Turnaround Times

Kelly Oakeson, PhD, Utah Public Health Laboratory

Maximizing Lab Efficiency: Transforming Enteric Pathogen Testing with Modern Tools

Jisun Haan, PhD, Minnesota Department of Health

The number of specimens and isolates received at public health laboratories (PHLs) for enteric isolation, identification and characterization has increased due to culture-independent diagnostic tests. The test volume increase has placed an additional burden on PHLs. This session will provide strategies and examples of how PHLs have used process improvement to reduce cost and increase efficiency.

4:30 pm – 5:00 pm **Break**

Grand Ballroom ABC Pre-function

5:00 pm – 6:00 pm **Member Assembly**

Grand Ballroom ABC

7:00 am – 12:00 pm Registration
Grand Ballroom ABC Pre-function

7:00 am – 8:00 am Break
Room 102 Pre-function

7:30 am – 8:30 am Roundtable Sessions

Health Equity and the Role of Public Health Laboratories in Advancing Access to Laboratory Testing During Public Health Emergencies

COM **SEI** **SLS** **WDT** **ETH** **MLD** **WFT**

Room 101AB

588-839-24 • 1.0 contact hour for this session

Moderator: Stephanie Barahona, MS, Association of Public Health Laboratories

Speakers:

- Ashley Marshall, MPH, Centers for Disease Control and Prevention
- Dana Baker, EdD, MBA, MS, MLS(ASCP)CM, Association of Public Health Laboratories

This roundtable will explore health equity issues related to laboratory testing during public health emergencies and the role of public health laboratories in advancing equitable access to point-of-care testing to mitigate community transmission. Speakers will share information about a scoping review to identify promising approaches to increase equitable access to testing during public health emergencies and speak to the value of partnership between clinical laboratories and public health laboratories in advancing health equity.

Collaboration with Partners During Food Safety Investigations — A One

Health Perspective **COM** **FSS** **OHA** **COM** **MLD** **QMS** **RS**

Room 101C

588-840-24 • 1.0 contact hour for this session

Moderator: Alyssa Dickey, PhD, New York State Department of Agriculture and Markets

Speakers:

- Maria Ishida, PhD, New York State Department of Agriculture and Markets
- Carrie Crabtree, PhD, Georgia Department of Agriculture
- Travis Goodman, RS, US Food and Drug Administration

Food safety investigations require coordination for expeditious response. The concept of One Health considers threats to the health of humans, animals and environment and strategies to improve outcomes. Recent foodborne outbreaks and involvement of regulatory frameworks including the FDA's Laboratory Flexible Funding Model (LFFM) and Rapid Response Teams (RRT) will be discussed. Participants will highlight successes and identify approaches to improve communication and collaboration in preventing and responding to food safety events.

Practice, Practice, Practice: Regional Consortia Tabletops and Their Utility for Enhancing Regional Preparedness

BIOS SLS WDT EMR SEC WFT

Room 101DE

588-841-24 • 1.0 contact hour for this session

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

Speakers:

- Matthew Johnson, BS, Kentucky Public Health Laboratory
- Nicole Green, PhD, D(ABMM), Los Angeles County Department of Public Health

Representatives from the Southeast CoLABorators and Pacific Rim Regional Consortia will discuss the utility of tabletop exercises as part of their preparedness activities. These tabletop scenarios enabled states within these regions to exercise their continuity of operations plans (COOP) when dealing with a wide range of emergency situations, from viruses to natural disasters to cyber-attacks.

Moving Facilities: Continuity of Operations Planning and Considerations for Safety and Security

COM SLS QLM MLD QMS SEC

Room 102AB

588-842-24 • 1.0 contact hour for this session

Moderators:

- Victor Waddell, PhD, Arizona State Public Health Laboratory
- Andrew C. Cannons, PhD, HCLD/CC (ABB), Florida Bureau of Public Health Laboratories — Tampa

Speakers:

- Jeremy Corrigan, MS, San Diego County Public Health Services — Laboratory
- Drew Fayram, MS, CBSP(ABSA), RBP(ABSA), Merrick & Company

Public health laboratory leaders and partners with experience in laboratory safety, security, quality systems and transition planning for moving into a new facility will lead this roundtable discussion focusing on move preparation planning and facilitation of the actual move, coordination of quality systems processes to implement prior to opening the new laboratory facility, and considerations for evaluating facility safety and security.

Passion for the Profession: Building the Public Health Laboratory Team!

COM WDT MLD WFT

Room 102DE

588-843-24 • 1.0 contact hour for this session

Moderator: Bernadette Matthis, MSBA, MT(ASCP)CM, Philadelphia Bureau of Laboratories

Speakers:

- Roxanne Alter MS, MLS (ASCP)CM, Retired University of Nebraska Medical Center, President of ASCLS-NE
- Erin Bowles, BS, MLS(ASCP), Wisconsin State Laboratory of Hygiene
- Leah D. Gillis, MS, PhD, HCLD(ABB), University of South Florida, College of Public Health

What sets us apart from other healthcare professions? Our laboratory science profession needs a united vision to portray our profession and identify ourselves. Individual titles may differ; however, identifying ourselves by a common name is important for establishing recognition of our profession.

8:30 am – 9:00 am Break

Grand Ballroom ABC Pre-function

9:00 am – 10:00 am Plenary Session

Grand Ballroom ABC

Public Health Showdown: Tuberculosis vs. *Candida auris* – Unveiling the Greatest Threat **DDT** **OHA** **SUR** **MCB** **SRV**

588-844-24 • 1.0 contact hour for this session

Moderator: Sara Vetter, PhD, D(ABMM), Minnesota Department of Health, Public Health Laboratory

Speakers:

- Mark Pandori, PhD, Nevada State Public Health Laboratory
- Marie-Claire Rowlinson, PhD, D(ABMM), Florida Bureau of Public Health Laboratories

Two formidable adversaries, Tuberculosis and *Candida auris*, are both public health threats causing significant morbidity and mortality worldwide. This interactive debate-style session will dissect these microbial foes and shed light on their respective impacts.

10:00 am – 10:30 am Break

Grand Ballroom ABC Pre-function

10:30 am – 11:30 am Plenary Session

Grand Ballroom ABC

The Climate Crisis: Public Health Laboratories' Call to Action

OHA **PAN** **SLS** **MLD** **SRV**

588-845-24 • 1.0 contact hour for this session

Moderator: Keri Fisher, Michigan Department of Health & Human Services

Speakers:

- Padmini Ramachandran, MS, US Food & Drug Administration
- Heather Blankenship, PhD, Michigan Department of Health & Human Services

Exploring the impacts of climate change on infectious diseases, environmental safety, and discussing adaptive and proactive approaches for effective response.

11:30 am APHL 2024 Adjourns

12:30 pm – 5:00 pm Optional Tours (pre-registration is required)

- Wisconsin State Public Health/Environmental Health Laboratory or
- Madison Nine Springs Wastewater Treatment Facility or
- City of Milwaukee Public Health Laboratory

This agenda is as of February 8, 2024. Please keep in mind that this schedule is a work in progress and is subject to change.

