





# 2016 Ohio Collaborative Laboratory Conference

**When:** April 13-15, 2016

**Where:** Double Tree by Hilton Hotel  
<http://doubletree.hilton.com/en/dt/groups/personalized/C/CMHWNDT-CL4-20160409/index.jhtml>  
175 Hutchinson Ave, Columbus, OH 43235  
(614) 885-3334  
Rate is \$114/night, with internet and breakfast (for up to 2 people) included  
Use group code CL4

**Registration:** Online registration only at [cvent.com/d/hfqk3p](http://cvent.com/d/hfqk3p)  
*Early Bird registration ends March 25, 2016*

	Early Bird	Full	Wednesday	Thursday	Friday
<b>Member</b>	\$ 170	\$ 220	\$ 100	\$ 130	\$ 130
<b>Non-member</b>	\$ 245	\$ 295	\$ 130	\$ 165	\$ 165
<b>Student</b>	\$ 70	\$ 120	\$ 60	\$ 60	\$ 60
<b>Student Non-member</b>	\$ 100	\$ 150	\$ 70	\$ 80	\$ 80
<b>Institutional</b>	\$ 265	\$ 315			

## Individual Full Registration Includes:

- ✓ Attendance at all conference sessions
- ✓ Lunch plus morning and afternoon refreshment breaks
- ✓ Wednesday evening dinner

## Individual Daily Registration:

- ✓ All sessions, refreshment breaks and lunch either day

**Institutional Registration:** *Institutional Badges must be purchased online in advance.*

One lunch ticket will be provided on Thursday and Friday for each badge purchased. Please contact Rosanne Kelley at [rkelley@ccf.org](mailto:rkelley@ccf.org) to request an electronic copy of the "Institutional Badge Users Session Selection Worksheet".

*Credit cards are preferred for payment this year for all institutional badges.*

## Refunds and Cancellations:

Full registration fees will be refunded only if a written request is postmarked on or before March 25, 2016. A session may be cancelled if there is insufficient interest from registrants

## Dietary and Special Accommodations:

Contact Laura Hook [mlt\\_laura@yahoo.com](mailto:mlt_laura@yahoo.com) by April 8<sup>th</sup> if you have any special dietary requirements or need special accommodations

**Please bring this program brochure with you to the conference**

## Keynote Speaker



*Zen of Professional Service*

presented by

**Kathy Doig PhD**

Michigan State University

We are very happy to welcome this year's Welcome and Keynote Speaker Dr. Kathy Doig

Dr. Doig holds a bachelor's degree in Medical Technology as well as master's degree in Clinical Laboratory Science from Michigan State University. Her Ph.D., also from Michigan State, is in Adult and Continuing Education.

Dr. Doig is a past-president of the American Society for Clinical Laboratory Science-Michigan and a past-president of the National Credentialing Agency for Laboratory Personnel (NCA). She has held numerous national professional positions within the American Society for Clinical Laboratory Science (ASCLS). In 2013, ASCLS-Michigan honored Dr. Doig with its inaugural Lifetime Achievement Award. She has been recognized by the College of Natural Science as Outstanding Academic Advisor and for Excellence in Teaching.

## Industry Networking

The 2016 Ohio Collaborative Laboratory Conference will have many vendors present again, to show us what's new in our field. There will be demonstration vans parked outside with some of the latest Chemistry, Hematology and Immunoassay instruments. The exhibit hall will give you the opportunity to talk to numerous representatives from the different companies. The vendor exhibits are open Thursday from 12-7pm and Friday 9:30-12pm.

Each year these vendors help sponsor the Ohio Collaborative Laboratory Conference. They play a significant role in sponsoring speakers, breaks, and lunches, helping to make it possible for us to put on the caliber of conference we do each year. Please take time during the conference to visit with them, learn about new laboratory products, make great connections and thank them for their support.

*Visit the conference website for a complete list of participating vendors*

**Vendor Reception: Thursday April 14 5-7pm**

## 2016 Charity Fundraiser

We are pleased this year to support the Juvenile Diabetes Research Foundation (JDRF) as the 2016 CLC charity organization. JDRF is the leading global organization funding type 1



diabetes (T1D) research. Their exclusive focus and singular influence is on the worldwide effort to end T1D. Their vision is a world without type 1 diabetes and mission is accelerating life-changing breakthroughs to cure, prevent and treat T1D and its complications. A donation table will be available at the meeting and proceeds from CLC T-shirt sales will be donated to JDRF.

## Special Events

### **Wednesday April 13 5-7 pm: Mix and Mingle Dinner!**

The 2016 Ohio Collaborative Laboratory Conference steering committee, co-chairs, and all members invite you to a social event to kick off this year's conference. This is an opportunity to catch up with friends and colleagues, make new ones, and relax before the conference swings into full gear on Thursday. **Please be sure to check the Wednesday dinner option on your registration to join us. A ticket will be included in your full registration packet.**

### **Thursday April 14 7pm Trivia Time**

Are you smarter than your colleagues? After the Vendor Reception, come join your fellow attendees in a game of trivia. Prizes awarded to the winning teams!

### **Friday April 15 2:45-5pm Student Academic Challenge**

The ASCLS Academic Challenge committee is looking for excited, enthusiastic MLT and MLS students to participate in the 13<sup>th</sup> annual Academic Challenge (AKA: Student Bowl). To organize your team you will need three members and one or two alternates. Team members must be registered participants for the meeting in order to qualify being on a team.

The deadline for registering your team is April 1<sup>st</sup>, so get your team organized, and come join students from all around the state for an afternoon of competition and educational fun. The registration form is on the CLC website.

## Continuing Education Credits

ASCLS-Ohio is an approved provider of continuing education programs by the American Society for Clinical Laboratory Science (ASCLS) P.A.C.E. ® Program. Attendees can earn up to 14 continuing education credits from the 49 educational sessions that are offered. A "Certificate of Attendance" will be available for all sessions attended.

# Program at a Glance

## 2016 OHIO COLLABORATIVE LABORATORY CONFERENCE

### An Examination of Medical Laboratory Science

April 13 – April 15, 2016

**Get the most out of your CLC experience by planning your sessions**

<b>Wednesday</b>									
W1	W2	W3	W4	W5	W6	W7	W8	W9	
<b>Thursday</b>									
T10	T11	T12	T13	T14	T15	T16	T17	T18	T19
T20	T21	T22	T23	T24	T25	T26	T27	T28	T29 T30
<b>Friday</b>									
F31	F32	F33	F34	F35	F36	F37	F38	F39	F40
F41	F42	F43	F44	F45	F46	F47	F48	F49	F50

**Wednesday, April 13**

12:30 – 5:00	<b>Registration</b>		
1:00 – 2:00	<b>W1</b> <b>Cystic Fibrosis – Sweating the Chloride and the Genetic Testing</b>  David Thornton, PhD, DABCC	<b>W2</b> <b>The Current and Future Landscape of Urinary Thromboxane Testing to Evaluate Atherothrombotic Risk</b>  John Lynn Jefferies, MD, MPH, FACC, FAHA  <i>Sponsored by Cogenix</i>	<b>W3</b> <b>Laboratory Safety: More Than Just a Lab Coat</b>  Sandra VanVranken, MS, MT(ASCP)SH <sup>CM</sup> and Tracy Nickison, MT(ASCP)
2:00 – 2:30	<b>Refreshment Break</b>		
2:30 – 3:30	<b>W4</b> <b>Hemoglobinopathies: Emerging Diagnostic Techniques</b>  Valentinas Gruzdyas	<b>W5</b> <b>Less is More: Blood Management</b>  Amanda Wright, MLS (ASCP)	<b>W6</b> <b>Trends in Health Data Analytics and the Relevance to Lab Scientists</b>  Victoria Wangia-Anderson, PhD
3:45 – 4:45	<b>W7</b> <b>IQCP is a Four Letter Word</b>  Steven Cotten, PhD, DABCC	<b>W8</b> <b>Infections of Leisure</b>  Ike Northern, MT, SM (ASCP)	<b>W9</b> <b>Current Advances in Detection of TSH Receptor Antibodies in Diagnosis of Graves' Disease</b>  Manjula Gupta, PhD, FACB
5:00 – 7:00	<b>Dinner</b>		
7:00 – 9:00	<b>ASCLS-OH Board of Directors Meeting</b>		

Thursday, April 14

8:00 – 5:00	<b>Registration</b>			
8:00 – 8:30	<b>Continental Breakfast</b>			
8:30 – 9:30	<p style="text-align: center;"><b>T10</b> <b>Changes in Blood Utilization</b></p> <p>Theresa Downs, MT(ASCP)SBB, CQA(ASQ)</p>	<p style="text-align: center;"><b>T11</b> <b>Real World Complexities Associated with Multi-site Analytical Validations</b></p> <p>Dina Greene, PhD, DABCC</p> <p style="text-align: center;"><i>Sponsored by AACC Ohio-Valley Section</i></p>	<p style="text-align: center;"><b>T12</b> <b>Getting the Lead Out – Pediatric Exposure to Lead Poisoning in Community</b></p> <p>Roslyn McQueen, PhD, CCRC, ASCP(SH)</p>	<p style="text-align: center;"><b>T13</b> <b>Disruption... The Good, the Bad, and the Ugly</b></p> <p>Rosanne Kelley, FACHE, MBA, MT</p>
9:30 – 9:45	<b>Refreshment Break</b>			
9:45 – 10:45	<p><b>T14: Welcome &amp; Keynote Address</b> <b>The Zen of Professional Service</b> Kathy Doig, PhD, MLS(ASCP)<sup>CM</sup>SH<sup>CM</sup></p>			
11:00 –12:00	<p style="text-align: center;"><b>T15</b> <b>Moving Microbiology from Louis Pasteur to Luke Skywalker</b></p> <p>Kevin Harvey, Ph.D., D(ABMM)</p>	<p style="text-align: center;"><b>T16</b> <b>Blood Gas Analysis and Sampling: A Beginners Guide</b></p> <p>Shane Keene, DHSc, MBA, RRT-NPS, CPFT, RPSGT, FAARC</p>	<p style="text-align: center;"><b>T17</b> <b>CLIA Requirements for Validation of Laboratory Tests (LDTs)</b></p> <p>Vincent Ricchiuti, PhD</p>	<p style="text-align: center;"><b>T18</b> <b>Strategic Planning and Effective Implementation of Quality Transformation</b></p> <p>M. Susan Stegall, MT(ASCP), MBA, MHSA, CMC</p>
12:00 – 1:30	<b>Luncheon &amp; Visit Vendors</b>			
1:30 – 2:30	<p style="text-align: center;"><b>T19</b> <b>A Primer of Carcinogenesis</b></p> <p>Kathy Doig, PhD, MLS(ASCP)<sup>CM</sup>SH<sup>CM</sup></p>	<p style="text-align: center;"><b>T20</b> <b>Viscoelastic Testing in the Clinical Laboratory</b></p> <p>Christopher Koch</p>	<p style="text-align: center;"><b>T21</b> <b>CRM Implementation and Workflow Redesign Facilitate Improved Client Services</b></p> <p>Donna D. Cooper, MS, MBA</p>	<p style="text-align: center;"><b>T22</b> <b>Volunteer Opportunities in Laboratory Medicine: Get Out of the Basement and Into the World.</b></p> <p>Carla Orner, MBA, MT(ASCP)</p>
2:45 – 3:45	<p style="text-align: center;"><b>T23</b> <b>Leveraging the Electronic Health Record (EHR) to Impact Patient Care While Containing Cost</b></p> <p>Eugenio H. Zabaleta, PhD</p>	<p style="text-align: center;"><b>T24</b> <b>Hematology Case Studies</b></p> <p>Dawn Robertson, MLS(ASCP)SH</p> <p style="text-align: center;"><i>Sponsored by Beckman</i></p>	<p style="text-align: center;"><b>T25</b> <b>Implementation of Methods for Antiretroviral Pharmacokinetic Analysis</b></p> <p>Mark Marzinke, PhD, DABCC, FACB</p> <p style="text-align: center;"><i>Sponsored by AACC Ohio-Valley Section</i></p>	<p style="text-align: center;"><b>T26</b> <b>Problem Patients- What Do I Do Next? Reference Lab to the Rescue</b></p> <p>Courtnie Croskey, MLS(ASCP)</p>
3:45 - 4:00	<b>Refreshment Break/Visit Vendors</b>			
4:00 – 5:00	<p style="text-align: center;"><b>T27</b> <b>Body Fluid Testing in Hematology</b></p> <p>Wanda Broerman, MLS(ASCP)JCM</p> <p style="text-align: center;"><i>Sponsored by Sysmex</i></p>	<p style="text-align: center;"><b>T28</b> <b>Getting That New Job: A Guide to Applying, Interviewing and Negotiating</b></p> <p>Catherine Shaffner, MOL, MLS(ASCP)<sup>CM</sup>SH and Joe M. El-Khoury, PhD, DABCC, FACB</p>	<p style="text-align: center;"><b>T29</b> <b>Emerging and Re-emerging Mycoses</b></p> <p>Marcia Lee, MLS(ASCP)<sup>CM</sup>, DVM, MS</p>	<p style="text-align: center;"><b>T30</b> <b>The Role of Automated Urinalysis Using UF-1000i Diagnostic Algorithms in the Management of Urinary Tract Infections</b></p> <p>Carol R. Quinter Ph.D.</p> <p style="text-align: center;"><i>Sponsored by Siemens Healthcare Diagnostics</i></p>
5:00 – 7:00	<b>Vendor Reception</b>			

Friday, April 15

8:00 – 3:00	<b>Registration</b>			
8:00 – 8:30	<b>Continental Breakfast/Networking</b>			<b>F31</b>
8:30 – 9:30	<b>F32</b> <b>Chemistry Review: What Comes After an Abnormal Result</b>  Linda S. Gorman, PhD	<b>F33</b> <b>Engagement for Improved Operations</b>  James A. Rowe, HT,MT (ASCP), MBA, FACHE	<b>F34</b> <b>Implementing Next Generation Sequencing in a Clinical Lab</b>  Erik J. Zmuda, PhD	<b>ASCLS-Ohio Member Business Meeting</b>  8:00 – 9:30
9:30 – 9:45	<b>Refreshment Break/Visit Vendors</b>			
9:45 – 10:45	<b>F35</b> <b>Improving Utilization of Laboratory Tests</b>  Brian Jackson  <i>Sponsored by ARUP Laboratories</i>	<b>F36</b> <b>Overcoming Obstacles in Point of Care Testing</b>  Joesph R. Wiencek, PhD	<b>F37</b> <b>The Role of T-cell Gene Rearrangement and its Expanding Impact on Clinical Practice.</b>  Ryan J. Carr, MD	<b>F38</b> <b>Preparing for the BOC Exam - A Brief Review and Action Plan</b>  Charity Accurso, PhD, MT(ASCP)
10:45 – 12:30	<b>Vendor Exhibits (10:45 – Noon)</b> <b>Lunch (11:30 – 12:30)</b>			
12:30 – 1:30	<b>F39</b> <b>Using Real-Time Analytics to Manage Test Utilization for Better Patient Care and Improved Financial Performance</b>  Thomas Joseph, MBA, MT (ASCP)  <i>Sponsored by Visiun</i>	<b>F40</b> <b>Improving Diagnosis and Reducing Costs</b>  Brian Jackson  <i>Sponsored by ARUP Laboratories</i>	<b>F41</b> <b>Mixed Phenotype Acute Leukemia (MPAL) Case Study and Update</b>  Nicholas Brehl, MEd, MLS (ASCP) <sup>CM</sup>	<b>F42</b> <b>Some ABC's of the BOC for Microbiology</b>  Shannon M. Kern, MPH, BS, MLS (ASCP) <sup>CM</sup>
1:45 – 2:45	<b>F43</b> <b>The Secret Life of Platelets</b>  J. Lynne Williams, PhD, MT(ASCP)	<b>F44</b> <b>Transfusion Reactions: Identification, Management, and Prevention</b>  Matthew Montgomery, MD	<b>F45</b> <b>Rules, Regulations, and Quality Control in Online Education</b>  Chad Guilliams, MEd, MLS (ASCP) <sup>CM</sup> and Michelle Butina, PhD, MLS (ASCP) <sup>CM</sup>	<b>F46</b> <b>Body Fluid Analysis: A Primer for the New Professional</b>  Erin Rumpke, MS, MT (ASCP)
2:45 – 3:00	<b>Refreshment Break</b>			
3:00 – 4:00	<b>F47</b> <b>Monitoring, Tracking and Reducing Employee Errors</b>  Elizabeth A. Norton	<b>F48</b> <b>A New Era of Toxicology Testing in the Clinical Lab</b>  Jaime Noguez, PhD	<b>F49</b> <b>Genetics of Lymphoproliferative Neoplasms: Pathophysiology, Prognostication, and Therapy</b>  Kristin Landis-Piwowar, PhD, MLS(ASCP) <sup>CM</sup>	<b>F50</b> <b>Pitfalls of Thyroglobulin Measurement</b>  Adam J. McShane, PhD
2:45 – 5:00	<b>Academic Challenge &amp; Student Mixer</b>			



# Session Abstracts 2016

Please note that the “level of instruction” is designated as Basic (B), Intermediate (I) or Advanced (A) following the title for each session.

## W1. Cystic Fibrosis – Sweating the Chloride and the Genetic Testing (B)

**David Thornton, PhD, DABCC**

Director Core Laboratory and Laboratory Information Systems  
Nationwide Children’s Hospital

Cystic Fibrosis (CF) a genetic disease, affects a large number of patients within the United States and throughout the world. Even though genetic testing can identify a number of patients with CF, sweat chloride testing continues to be an important part of the arsenal for identifying patients with CF. Numerous therapies have been developed from lung transplants to pharmaceuticals.

## W2. The Current and Future Landscape of Urinary Thromboxane Testing to Evaluate Atherothrombotic Risk (I)

**John Lynn Jefferies, MD, MPH, FACC, FAHA**

Professor, Pediatric Cardiology and Adult Cardiovascular Diseases  
Professor, Division Human Genetics  
Cincinnati Children’s Hospital Medical Center

This presentation will describe the current understanding of urinary thromboxane and focused reviews of some existing literature. The lecture will explain the mechanism behind the generation of thromboxane in humans and some potential clinical uses for urinary testing.

*Sponsored by Cogenix*

## W3. Laboratory Safety: More Than Just a Lab Coat (I)

**Tracy Nickison, MT (ASCP) / Sandra VanVranken MS, MT(ASCP)SH<sup>CM</sup>**

Laboratory Compliance & Safety Officer / Laboratory Compliance Director  
The Ohio State University Wexner Medical Center

Laboratory Safety is an often overlooked and underappreciated area in today’s busy laboratory. It often takes a back seat to challenges with meeting turnaround times, heavier workloads and short staffing. New GHS labeling requirements, new challenges with readily available technology and infection control, chemical inventories for large institutions with multiple labs and overlap, emerging infectious disease...OH MY! This presentation will discuss techniques used to raise awareness and staff “buy-in” by making Lab Safety fun and interactive.

## W4. Hemoglobinopathies: Emerging Diagnostic Techniques (I)

**Valentinas Gruzdy**

Volunteer Researcher/PhD Candidate  
Cleveland Clinic/Cleveland State University

Current diagnostic techniques of hemoglobinopathies will be overviewed, followed by an introduction of emerging techniques with focus on mass spectrometry-based hemoglobin identification. Hemoglobin mass spectrometry data utility in diagnosis will be demonstrated by utilizing instrument output data and comparing it to entries in hemoglobin variant database.

## W5. Less is More: Blood Management (B)

**Amanda Wright, MLS (ASCP)**

Quality Management Specialist  
ProMedica Health System

Fifteen years after a ground breaking and defying prospective study was published (followed up by countless more) indicating *Less is More*, blood transfusions continue to be the most frequently performed hospital procedure in the US. In this presentation, the what’s, how’s, why’s and cannot’s of Blood management will be explored along with one hospital’s measurable successes.

## W6. Trends in Health Data Analytics and the Relevance to Lab Scientists (B)

**Victoria Wangia-Anderson, PhD**

Program Director  
University of Cincinnati

This session will introduce the audience to health data analytics and business intelligence concepts and methodology. The presenter will discuss the impact health data analytics has on healthcare quality and performance improvement and will present examples of how this relates to lab scientists working in healthcare settings.

## W7. IQCP is a Four Letter Word (B)

**Steven Cotten, PhD, DABCC**

Assistant Professor, Pathology  
Ohio State University Wexner Medical Center

The concept of IQCP and how IQCP impacts laboratories will be discussed. Approaches to creating an IQCP and how to audit the effectiveness of a lab’s IQCP will be investigated.

## **W8. Infections of Leisure (I)**

### **Ike Northern, MT, SM (ASCP)**

Director of Infectious Disease Testing  
CompuNet Clinical Lab

Everyone looks forward to vacation. However, infectious agents are lurking in popular vacation spots. This talk will discuss the infections that are acquired while on vacation and other leisure activities.

## **W9. Current Advances in Detection of TSH Receptor Antibodies in Diagnosis of Graves' Disease (I)**

### **Manjula Gupta, PhD, FACB**

Professor of Pathology and Professor of Medicine  
[Endocrinology]  
Cleveland Clinic

TSH Receptor [TSHR] belongs to G-protein coupled receptors with large extracellular region responsible for antibody interaction to different epitopes. This epitope specificity is reflected by the influence of TSHR autoantibodies [TRAbs] on TSH-receptor function. The heterogeneous nature of TRAbs-interaction with multiple epitopes on TSHR is well recognized. Measuring the TRAbs- subtypes [stimulating or blocking] has potential clinical implications.

## **T10. Changes in Blood Utilization (I)**

### **Theresa Downs, MT(ASCP)SBB, CQA(ASQ)**

Administrative Manager  
Blood Bank & Transfusion Service  
University of Michigan Hospitals & Health Centers

Transfusions are down across the US. As hospitals move to electronic medical records and data-driven decision support, blood use is reviewed for appropriate transfusion triggers. This session will examine factors driving the decrease in blood use and strategies used to reduce the need for transfusion.

## **T11. Real World Complexities Associated with Multi-site Analytical Validations (I)**

### **Dina Greene, PhD, DABCC**

Assistant Professor; Associate Director, Chemistry;  
Director, Clinical Chemistry Fellowship Program  
Department of Laboratory Medicine, University of Washington

This presentation will focus on the various complexities encountered with automated chemistry assays. Real world examples will be used to illustrate how calibration shifts, inter-instrument bias, and inter-assay bias can complicate clinical interpretation and influence patient care.

*Sponsored by AACC-Ohio Valley Section*

## **T12. Getting the Lead out – Pediatric Exposure to Lead Poisoning in Community (I)**

### **Roslyn McQueen, PhD, CCRC, ASCP(SH)**

Certified Clinical Research Coordinator  
Hurley Medical Center, Flint, MI

Lead is a potent neurotoxin, and childhood lead poisoning has an impact on many developmental and biological processes, most notably intelligence, behavior, and overall life achievement. In April 2014, the postindustrial city of Flint, Michigan, under state-appointed emergency management, changed its water supply from Detroit-supplied Lake Huron water to the Flint River as a temporary measure, awaiting a new pipeline to Lake Huron in 2016. One year later we noticed a significant increase in elevated blood lead levels after water source change. This presentation will review lead poisoning and the pathology and hematologic significance of this development.

## **T13. Disruption... The Good, the Bad, and the Ugly (I)**

### **Rosanne Kelley, FACHE, MBA, MT**

Program Director, Regional Pathology Education  
Cleveland Clinic

The Healthcare Industry has experienced countless changes over the last 25 years that were once categorized as Disruption. Recently, disruption is being portrayed more as a positive rather than a negative transformation. We will review examples of disruption in both general healthcare and laboratory medicine settings. We will discuss how these situations can benefit your organization or career.

## **T14. KEYNOTE: The Zen of Professional Service (B)**

### **Kathy Doig, PhD, MLS(ASCP)<sup>CM</sup>SH<sup>CM</sup>**

Professor Emeritus  
Michigan State University

Are you feeling like your career needs a jump start or that laboratorians don't get the respect they deserve but you can't figure out how to make a change? Invest in yourself for this hour and learn how that investment can pay off big in career advancement and improved professional satisfaction.

## **T15. Moving Microbiology from Louis Pasteur to Luke Skywalker (I)**

### **Kevin Harvey, PhD, D(ABMM)**

Technical Director  
Laboratory Corporation of America

The program will be an overview of the history of clinical microbiology and provide a description of current and future technologies used in the laboratory diagnosis of microbial pathogens. The discussion will include comments about factors involved in choosing new tests for the laboratory.

## **T16. Blood Gas Analysis and Sampling: A Beginners Guide (I)**

**Shane Keene, DHSc, MBA, RRT-NPS, CPFT, RPSGT, FAARC**  
Department Head  
University of Cincinnati

This topic is designed to help attendees understand basic blood gas interpretation. It will also provide educators with a tool to help teach basic interpretation to their students.

## **T17. CLIA Requirements for Validation of Laboratory Tests (LDTs) (B)**

**Vincent Ricchiuti, PhD**  
Medical Director, Laboratory Director and Discipline Director  
Laboratory Corporation of America Holdings (LabCorp)

For many years, the diagnostics industry, clinical laboratories, researchers and patient groups have debated the appropriate regulatory approach for LDTs. LDTs play an important role in health care, and their potential impact on patient care will increase dramatically in the coming years. There must be assurances that LDTs, in particular high-risk LDTs, provide clinically relevant information to both physicians and patients. Therefore, LDTs present some unique regulatory questions.

## **T18. Strategic Planning and Effective Implementation of Quality Transformation (I)**

**M. Susan Stegall, MT(ASCP), MBA, MHSA, CMC**  
Owner and CEO of M. S. Stegall & Associates, LLC,  
Management Consulting

What will your future quality management system look like? With no action, it will probably look the same as today. Under pressure, other competing priorities may undermine quality management progression—on-going healthcare reform coupled with declining reimbursement will create pressure to achieve a higher level of performance. This presentation focuses on developing/implementing necessary quality management strategies at your organization.

## **T19. A Primer of Carcinogenesis (I)**

**Kathy Doig, PhD, MLS(ASCP)<sup>CM</sup>SH<sup>CM</sup>**  
Professor Emeritus  
Michigan State University

Cancers, like leukemia, arise from mutations of proteins that affect cell division. Although the number of mutations and the possible proteins affected is enormous, there are just 6 general ways that cells become cancerous. Those mechanisms will be discussed including examples of designer drugs targeted to such mutations.

## **T20. Viscoelastic Testing in the Clinical Laboratory (B)**

**Christopher Koch**  
Ph.D. Student  
Cleveland State University

The validation, implementation, and daily operation of viscoelastic assays come with unique challenges that must be addressed by the clinical laboratory. This presentation will give a basic background on viscoelastic methodologies and will discuss potential solutions to some of these challenges including sample type and handling, validation despite the lack of reference methods, and operation errors.

## **T21. CRM Implementation and Workflow Redesign Facilitate Improved Client Services (I)**

**Donna D. Cooper, MS, MBA**  
Manager, Laboratory Client Services and Test Utilization  
Cleveland Clinic Laboratories

Laboratory Client services at Cleveland Clinic implemented a customer relationship manager (CRM) system to facilitate the consolidation of 10 regional hospitals. Several workflows were redesigned to be more efficient for the labs. These changes allow more calls resolved on the first contact with only a small increase in staff.

## **T22. Volunteer Opportunities in Laboratory Medicine: Get Out of the Basement and Into the World (B)**

**Carla Omer, MBA, MT(ASCP)**  
Program Director  
Heart to Heart International

Clinicians have always had the opportunity to go on medical missions. The progress in POC laboratory testing allows laboratorians to go into the field to perform testing enabling more accurate diagnosis and treatment. Heart to Heart International teaches World Health Organization Laboratory Standards in developing nations and sets up POC laboratories in safety net clinics in the U.S. Join the adventure.

## **T23. Leveraging the Electronic Health Record (EHR) to Impact Patient Care While Containing Cost (B)**

**Eugenio H. Zabaleta, PhD**  
Clinical Chemist  
OhioHealth Mansfield Hospital

In the changing landscape of our nation's healthcare, laboratorians have the unique opportunity to provide greater value to the patient in several healthcare settings through the meaningful use of Electronic Health Record (EHR). Laboratorians and laboratory data can enhance and/or improve: individual patient care, patient safety, evidence based medicine protocols development, and public health data exchange, without increasing healthcare cost.

## **T24. Hematology Case Studies (I)**

**Dawn Robertson, MLS(ASCP)SH**  
Hematology Field Product Specialist  
Beckman Coulter, Inc

For the hematologist in you! A fun journey through case studies showing photomicrographs of various disease states and how they present on the automated analyzer.  
*Sponsored by Beckman*

## **T25. Implementation of Methods for Antiretroviral Pharmacokinetic Analysis (I)**

**Mark Marzinke, PhD, DABCC, FACB**  
Assistant Professor  
Johns Hopkins University School of Medicine

While antiretroviral (ARV) drug concentrations are not commonly monitored in the clinical laboratory, understanding drug pharmacokinetics is critical in clinical research trials. This presentation will discuss the considerations in the development, bioanalytical validation, and implementation of LC-MS/MS methods to better understand the pharmacokinetics-pharmacodynamics of ARVs in the prevention and management of HIV.

*Sponsored by AACC-Ohio Valley Section*

## **T26. Problem Patients- What Do I Do Next? Reference Lab to the Rescue (I)**

**Courtne Croskey, MLS(ASCP)**  
Medical Laboratory Scientist-Transfusion Services  
ProMedica Health System

You have a positive antibody screen, now what? Most antibodies are fairly straightforward but there are always those few problem patients. This session will address patients that go beyond simple antibody identification and give you insight on techniques used to resolve them.

## **T27. Body Fluid Testing in Hematology (I)**

**Wanda Broerman, MLS(ASCP)CM**  
Clinical Applications Specialist  
Sysmex America Inc.

This presentation reviews the advantages of the automated cell count over a manual count, reviews the meaning of analytical reference range and clinical reportable range and reviews how to identify features of benign and malignant body fluid cells.

*Sponsored by Sysmex*

## **T28. Getting That New Job: A Guide to Applying, Interviewing and Negotiating (B)**

**Catherine Shaffner, MOL, MLS(ASCP)<sup>CM</sup>SH**  
Education Coordinator  
ProMedica

**Joe M. El-Khoury, PhD, DABCC, FACB**  
Assistant Professor of Laboratory Medicine  
Assistant Director of Clinical Chemistry Laboratory  
Yale University School of Medicine

This presentation will cover the basics for job seekers from locating jobs and applying, to interviewing and negotiating. Senior students and individuals looking for new jobs will benefit the most from attending this presentation.

## **T29. Emerging and Re-emerging Mycoses (B)**

**Marcia Lee, MLS(ASCP)<sup>CM</sup>, DVM, MS**  
Associate Professor  
Miami University

Fungi are implicated in an array of emerging and re-emerging diseases. In this session filamentous and dimorphic fungi responsible for mycotic epidemics and pandemics will be discussed along with public health strategies employed to control or halt these mycoses.

## **T30. The Role of Automated Urinalysis Using UF-1000i Diagnostic Algorithms in the Management of Urinary Tract Infections (I)**

**Carol R. Quinter, PhD**  
Clinical Consultant

Data which demonstrates the lack of correlation of urinalysis parameters leukocyte esterase and nitrate with urinary tract infection will be presented. The principles of the UF-1000i and their application in the development of clinically relevant diagnostic algorithms will be reviewed with a focus on associated cost savings and antimicrobial stewardship.

*Sponsored by Siemens Healthcare Diagnostics*

## **F32. Chemistry Review: What Comes After an Abnormal Result (I)**

**Linda S. Gorman, PhD**  
Associate Professor  
University of Kentucky

Clinical Chemistry reviews try to hit the high points to help those who need to review content connect with the major topics and points of interest. Using case study data, we will review clinical chemistry topics like electrolytes, hormone findings, and liver panel results. Participants looking for a review of clinical chemistry plus students in clinical chemistry will benefit from this presentation.

### **F33. Engagement for Improved Operations (A)**

**James A. Rowe, HT,MT (ASCP), MBA, FACHE**

Director Lab Services

St. John Medical Center; University Health System

Our most valuable asset is our staff. An engaged staff is more productive and demonstrates more TEAM behaviors that benefit operations. How can we as leaders develop engaged staff? This presentation will provide ideas and suggestions for leadership behaviors that set the tone and example for staff to follow.

### **F34. Implementing Next Generation Sequencing in a Clinical Lab (B)**

**Erik J. Zmuda, PhD**

Molecular Genetics Technical Director; ABMGG

Molecular Genetics Fellow

Nationwide Children's Hospital

This presentation will provide a beginner's overview to the NGS testing platform, address why the technology is important to clinical diagnostics, and summarize the experience/lessons learned from setting up a clinical NGS program at Nationwide Children's Hospital.

### **F35. Improving Utilization of Laboratory Tests (B)**

**Brian Jackson**

VP, CMIO

ARUP Laboratories and University of Utah

In order to drive "value-based" healthcare, it is necessary to develop management systems that monitor and steer physician's clinical decision making. This will augment and support rather than replace physicians' expert judgment. This presentation will suggest approaches to diagnostic test utilization management that are being piloted in medical centers across the U.S.

*Sponsored by ARUP Laboratories*

### **F36. Overcoming Obstacles in Point of Care Testing (B)**

**Joesph R. Wiencek, PhD**

Clinical Chemistry Fellow

Vanderbilt University School of Medicine

Point-of-care testing (POCT) is universal in modern healthcare. New and innovative technologies permit diagnostic tests to leave the confines of the centralized laboratory and migrate to the site of patient care. Unfortunately, the excitement of this technology is often lost due to an assortment of practical obstacles. Many of these challenges will be discussed and possible solutions will be offered.

### **F37. The Role of T-cell Gene Rearrangement and its Expanding Impact on Clinical Practice (I)**

**Ryan J. Carr, MD**

Fellow, Dermatopathology

The Ohio State University Wexner Medical Center

Department of Pathology

Department of Internal Medicine, Division of

Dermatology

This talk is designed to highlight the instrumental and pathologic foundations of T-cell gene rearrangement testing. Additionally, the scope and importance of this testing in cases of cutaneous and visceral lymphoid malignancies will be discussed, including its expanding impact on clinical decision making in challenging clinical scenarios.

### **F38. Preparing for the BOC Exam - A Brief Review and Action Plan (I)**

**Charity Accurso, PhD, MT(ASCP)**

Assistant Professor – Educator, MLS Program Director

University of Cincinnati

Preparing for the national examination can be a daunting task, but a little preparation will ensure that you are ready for the big day. This session will provide you with self-assessment techniques, study strategies and plans to put into place in the months prior to your examination day.

### **F39. Using Real-Time Analytics to Manage Test Utilization for Better Patient Care and Improved Financial Performance (I)**

**Thomas Joseph, MBA, MT (ASCP)**

President and CEO

Visiun

Managing test utilization in order to reduce unnecessary testing is one of the greatest opportunities for laboratories to improve financial performance while enhancing patient care. This session will provide an overview of the approaches health systems are using to manage both overutilization and underutilization, and how analytics can drive improved utilization practices. Surveys of physician practice patterns will be discussed along with key benchmarks and assessments of the scale of opportunities across the industry.

*Sponsored by Visiun*

#### **F40. Improving Diagnosis and Reducing Costs (B)**

**Brian Jackson**

VP, CMIO

ARUP Laboratories and University of Utah

It is no surprise to laboratory professionals that physicians sometimes misuse lab tests. Overordering, underordering and misordering are all common. Some of these practices can be detected through systematic review of ordering patterns. This presentation will review practical approaches to detecting and monitoring test mis-utilization by means of review of available laboratory data.

*Sponsored by ARUP Laboratories*

#### **F41. Mixed Phenotype Acute Leukemia (MPAL) Case Study and Update (I)**

**Nicholas Brehl, MEd, MLS (ASCP)<sup>CM</sup>**

Assistant Clinical Professor

Indiana University School of Medicine

This presentation will include a historical review of Mixed Phenotype Acute Leukemias (MPAL) along with current diagnostic criteria. The genetic and epigenetic factors that lead to the development and progression of MPAL will be discussed. Current treatments will be briefly described. Case studies of patients with MPAL will be presented to illustrate the laboratory's role in diagnosis and prognosis for this disease.

#### **F42. Some ABC's of the BOC for Microbiology (B)**

**Shannon M. Kern, MPH, BS, MLS (ASCP)<sup>CM</sup>**

Microbiologist/Medical Technologist and Adjunct Faculty  
VA Medical Center and Ohio University

This session is designed for the laboratory science student as a review for microbiology in preparation for the upcoming BOC exam. It will cover how the exam is structured, the content areas of microbiology, and some helpful study tools as well as a review in each content area. Session attendees are encouraged to bring questions or even submit them ahead of time to the speaker at: [skern29@yahoo.com](mailto:skern29@yahoo.com)

#### **F43. The Secret Life of Platelets (I)**

**J. Lynne Williams, PhD, MT(ASCP)**

Professor and Program Director, Biomedical Diagnostic and Therapeutic Sciences  
Oakland University

Platelets are typically recognized for their role in primary hemostasis. However, they make a number of unappreciated contributions to human physiology and homeostasis, including important roles in the immune response and inflammation. Ongoing research is revealing important contributions of platelets with regard to infectious syndromes, and potential new therapeutic targets.

#### **F44. Transfusion Reactions: Identification, Management, and Prevention (I)**

**Matthew Montgomery, MD**

Assistant Medical Director

Hoxworth Blood Center

This presentation will focus on the pathophysiological and immunologic background of transfusion reactions, as well as the signs and symptoms of the most common reactions as well as their immediate management and laboratory investigation. Focus will also be given to prevention of reactions, especially in regards to proper labeling and administration practices.

#### **F45. Rules, Regulations, and Quality Control in Online Education (B)**

**Chad Guilliams, MEd, MLS (ASCP)<sup>CM</sup> / Michelle Butina, PhD, MLS (ASCP)<sup>CM</sup>**

Lecturer / Professor and Program Director

University of Kentucky

The presentation aims to explain the growth and efficacy of quality online education along with the regulations pertaining to distinguishing online education from correspondence courses to ensure federal aid is applicable. Having an online course review process in place ensures online courses offered are of a high quality and in alignment with current rules and regulations.

#### **F46. Body Fluid Analysis: A Primer for the New Professional (B)**

**Erin Rumpke, MS, MT (ASCP)**

Assistant Professor Educator

University of Cincinnati Medical Laboratory Science Program

A review of basic considerations related to the analysis of body fluids in the clinical laboratory, with a focus on routinely ordered tests and associated techniques. Methods discussed to include common chemistry assays, cell counts and identification.

#### **F47. Monitoring, Tracking and Reducing Employee Errors (I)**

**Elizabeth A. Norton**

Support Services Specialist

New Vision Medical Laboratories

Like many hospital laboratories, we struggled to achieve any consistent accountability for errors caused by our staff. The errors were happening, but without effective tracking, we rarely knew exactly who was making them and how often they occurred. Once we instituted a system that was uniform, easy to use, we were able to conclude, 'Inspect what you Expect.'

## **F48. A New Era of Toxicology Testing in the Clinical Lab (I)**

**Jaime Noguez, PhD**

Assistant Director of Chemistry Laboratories  
University Hospitals Case Medical Center

This presentation will briefly review the current state of drugs of abuse testing and discuss some of the challenges clinical labs are faced with as new designer drugs become mainstream.

## **F49. Genetics of Lymphoproliferative Neoplasms: Pathophysiology, Prognostication, and Therapy (I)**

**Kristin Landis-Piwowar, PhD, MLS(ASCP)<sup>CM</sup>**

Assistant Professor, Biomedical Diagnostic and Therapeutic Sciences  
Oakland University

Lymphoproliferative neoplasms represent a heterogeneous array of disorders with distinct clinical and biological properties. Examining the genetic defects and their functional consequences in these neoplasms is critical to pinpointing their origin and to customizing the most effective therapies.

## **F50. Pitfalls of Thyroglobulin Measurement (B)**

**Adam J. McShane, PhD**

Clinical Biochemistry Fellow  
Cleveland Clinic Foundation

Thyroglobulin (Tg) is produced in the follicular cells of the thyroid gland, and is a precursor to thyroid hormones. It is routinely monitored as a tumor marker for differentiated thyroid cancer (DTC). However, autoantibodies to Tg can potentially interfere with its measurement. New LC-MS/MS approaches have been implemented to circumvent autoantibody interference, but face their own unique challenges.

# Tips and FAQs

*Want to get the most out of the CLC conference?*

## **Employer Approved Registration**

Registration is online this year. For attendees that need paper copies of registration forms for institution approval, a paper copy can be downloaded from the website and submitted to your employer.

## **Attention: Members of AACC, ASCLS, CLMA**

When completing the conference registration form, please check the appropriate member box(es) – and provide your member number for each. This will ensure that your status as a member of one (or more) of the collaboration organizations (AACC – Northeast Ohio Section, Ohio Valley Section, ASCLS-Ohio, CLMA–First Ohio, Six Rivers, or Western Lake Erie Chapter) is recognized and member registration fees will apply. Your current membership status in the organization(s) selected will be verified.

## **Continental Breakfast**

Plan to join your colleagues at the complimentary Continental Breakfast on Thursday and Friday mornings from 8:00 am- 8:30 am

## **Special Accommodations**

If you have special needs that require accommodation, including any dietary restrictions (ie: vegetarian) or food allergies, please contact Laura Hook at [mlt\\_laura@yahoo.com](mailto:mlt_laura@yahoo.com). The deadline is April 8<sup>th</sup> for any special dietary requirements



## 2016 Organizing Professional Societies



*Better health through laboratory medicine*

## American Association for Clinical Chemistry

### *Northeast Ohio Section*

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### *Ohio Valley Section*

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AACC is a global scientific and medical professional organization dedicated to clinical laboratory science and its application to healthcare. Our leadership in education, advocacy and collaboration helps lab professionals adapt to change and do what they do best: provide vital insight and guidance so patients get the care they need.

AACC's approximately 8,000 members come from all areas of lab medicine—clinical and research laboratories, diagnostic companies, government agencies, original equipment manufacturers, and more. AACC represents the diverse interests of a global lab community: our members come from 110 countries and hold the spectrum of lab-related professional degrees, certifications, and credentials. *Clinical Chemistry* and *Clinical Laboratory News* provide peer reviewed research and breaking news stories from leading clinical laboratory scientists. In addition to the AACC member website, a joint venture with ASCLS, Lab Tests Online ([www.labtestsonline.org](http://www.labtestsonline.org)) has won several awards and hosts more than 700,000 visitors per month. For information on AACC visit [www.aacc.org](http://www.aacc.org).





*American Society for  
Clinical Laboratory Science  
Ohio (ASCLS-Ohio)*

*ASCLS- Ohio Leadership*

Melanie Giusti, President	Barbara Zingale, Senior Director
Laura Hook-Woods, President-Elect	Laura Gieger, Junior Director
Erin Rumpke, Recording Secretary	Ian Campbell, Junior Director
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Lisa Kubit, Senior Director	

Founded in 1933, ASCLS is made up of and governed by practitioners in clinical laboratory science. ASCLS-Ohio's mission is to promote the profession of clinical laboratory science in Ohio and provide beneficial services to those who practice it.

Besides serving on the board of directors, committees or scientific assemblies for ASCLS-OH, members may also choose to work with ASCLS national committees. ASCLS publishes a bimonthly journal, *Clinical Laboratory Science*, along with a monthly national newsletter, *ASCLS Today*.

All laboratorians are invited to be members of ASCLS e.g. students, medical laboratory scientists, medical laboratory technicians, histotechnologists, histotechnicians, generalists, specialists, managers/supervisors, phlebotomists and others. Please join us at the ASCLS-OH Membership Booth or find a member at the meeting to learn more about ASCLS and ASCLS-OH, or visit our websites- [www.ascls.org](http://www.ascls.org) and [www.ascls-ohio.org](http://www.ascls-ohio.org).

All ASCLS members including students are encouraged to join the ASCLS-Ohio leadership during the conference at the Board of Directors meeting (which will be held on Wednesday, April 13th at 7 pm) and the Member Business Meeting (which will be held on Friday, April 15th at 8 am).



# *Clinical Laboratory Management Association*

## *First Ohio*

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CLMA is an international organization whose membership is responsible for laboratories and clinical services in hospitals, healthcare networks, group practices and independent settings. The First Ohio, Six Rivers and Western Lake Erie Chapters of CLMA are professional organizations dedicated to excellence in clinical services; to enhancing professional, managerial and leadership skills; to promoting efficient, productive and high quality operations; advocating on behalf of quality patient care and chapter membership.

These Chapters provide education, regulatory information and networking opportunities. CLMA provides e-mails with the latest regulatory updates and industry trends as well as newsletters and journals to its members.

This organization is an invaluable asset for current and future laboratory leaders.

First Ohio-CLMA Leadership can be found at <http://www.clma.org/group/FOC>

Western Lake Erie-CLMA Leadership found at  
<http://www.clma.org/group/WLEC>

Six Rivers-CLMA Leadership can be found at <http://www.clma.org/group/SRC>

# 2016 Sponsoring Vendors

*Below is a list of our committed partners for the 2016 CLC as of this printing*

Alcor Scientific	LabCorp
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Diagnostica Stago	Roche
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Global Focus	Soft Computing Consultants
Hemosure Inc	Streck
Hettich	Sysmex
Hologic	Trinity Biotech
Instrument Laboratories (blood gas)	WSLH Proficiency
Instrument Laboratories (coag)	

Additional vendors will be available during the conference

**The organizing committees would like to  
thank you for your support.**

<b>Steering</b>	<b>Program</b>	<b>Publicity</b>	<b>Social/Facilities</b>
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## 2016 Ohio Collaborative Laboratory Conference

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