

CLEC
2023

**39th Annual
Clinical Laboratory Educators Conference**

March 2 - 4, 2023 // // // New Orleans, LA

**ATTEND IN-PERSON
OR VIRTUALLY**

Register for #CLEC2023
by **January 6** and **SAVE!**
www.ascls.org/clec





CLEC 2023

The Clinical Laboratory Educators Conference (CLEC) is the most impactful annual gathering for faculty, administrators, directors, advisers, and all in medical laboratory education. It is a unique shared experience unlike any other—educators from all types of programs and with varying years of experience gather to exchange innovative ideas, discuss research activities, and receive support from their peers.

By attending CLEC, you will be able to identify new trends in laboratory education, develop innovative teaching techniques, manage change, enhance instructional skills, and so much more. The educational content addresses the diverse needs of our educator community. From sessions focused on educational theory, to program management, to meeting the needs of students, the program is designed to give you take-aways that you can bring home and implement in your program.

In addition to the educational program, CLEC provides valuable opportunities to meet with industry partners and to collaborate with other educators in your discipline. Learn how exhibiting partners' products and services can support and enhance your instructional methods, and build your network of educators who share your passion to provide excellent clinical laboratory education.



GENERAL LEARNING OBJECTIVES

At the conference's conclusion, participants will be able to:

- Discuss teaching strategies to engage students and improve learning outcomes.
- Integrate new topics, science, and skills into the current curriculum.
- Identify innovative and novel approaches to the education of future laboratory professionals.



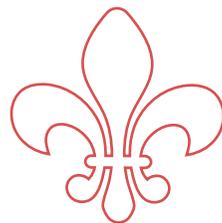
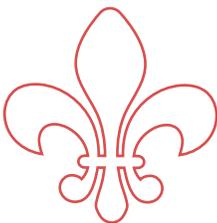
Check the CLEC website for complete details as they become available. Read the eCLECtic blog for regular updates on new developments and interesting opportunities for CLEC 2023.
www.ascls.org/clec



CONTINUING EDUCATION CREDIT

CLEC's continuing education programs are approved by the ASCLS P.A.C.E.® program for clinical laboratory sciences. P.A.C.E.® contact hours are accepted by the ASCP/ASCLS/AGT Board of Certification, and all states, including California and Florida, for recertification and licensure. Registrants will have access to all educational sessions, both live and recorded, for 30 days after the event and can earn over 40 P.A.C.E.®-approved contact hours.

To document the P.A.C.E.® credits you earn, you will be able to produce a P.A.C.E.® certificate of attendance using the ASCLS CE Organizer. The CE Organizer is online at <http://ceorganizer.ascls.org>. As an ASCLS member benefit, contact hours earned will be automatically transferred to the BOC Certification Maintenance Program (CMP) for re-certification purposes if you have a valid ASCP customer ID number listed in CE Organizer.





IN-PERSON AND VIRTUAL ATTENDANCE OPTIONS

To provide you flexibility to participate in CLEC in the format that best fits your preferences, you have the option to attend CLEC either in-person in New Orleans or virtually through the streaming device of your choice, wherever you are.

All educational sessions will be streamed live and recorded. Both in-person and virtual registrants will have access to all session recordings for 30 days after the event—over 40 hours of P.A.C.E.[®]-approved credit—as well as additional virtual content provided in the conference app. You get to choose which sessions and events you want to attend live and which recordings you will view later when the time is right. Design a CLEC schedule that fits your work and personal life.

- **In-person Attendance:** CLEC 2023 will be held at the Hyatt Regency New Orleans. In addition to the more than 40 educational sessions detailed in this brochure, the event also includes peer-submitted posters, industry partner exhibits, networking activities, and select meals.

COVID and other infectious diseases have the potential to evolve and cause disruptions to normal activities due to personal and public health concerns. ASCLS, first and foremost, has a responsibility to provide safe learning environments for its meeting attendees. As an association of and for healthcare professionals, attendees at our live, face-to-face meetings are expected to exercise sound and ethical professional judgement to protect the health of those around them, which includes proper vaccinations and other measures that limit the spread of infectious diseases like masking and social distancing. Those who are experiencing symptoms should not attend live sessions and should self-quarantine from other attendees.

- **Virtual Attendance:** You will have access to the more than 40 educational sessions detailed in this brochure, either streamed live or recorded; industry partner virtual activities; virtual poster presentations; and virtual networking events.

CLEC 2023 Online Community: All registered attendees will be included in the CLEC 2023 online community where you can ask questions, start discussions, and get advice from other CLEC attendees before, during, and after the event. Learn from the CLEC Host Committee about things to do and places to eat in New Orleans. Get tips from long-time CLEC attendees about how to maximize your experience. And continue collaborating with the educators you meet after CLEC 2023 wraps up.

*If your circumstances change and you want to change your registration from virtual to in-person, or vice versa, you can modify your registration at any time. Modifications from in-person to virtual attendance made before **February 10, 2023**, will include the registration payment balance refunded. After February 10, no refunds will be issued.*



SCHEDULE-AT-A-GLANCE

All times in Central Time. Schedule subject to change.

THURSDAY, MARCH 2

- 9:00 am – 11:30 am New Educator Workshop
- 11:30 am – 12:30 pm Networking, Industry Engagement
- 12:45 pm – 6:00 pm Opening Keynote, Educational Sessions, Industry Engagement, Networking
- 6:00 pm – 8:00 pm Reception with Industry Partners and NAACLS 50th Anniversary Celebration

FRIDAY, MARCH 3

- 7:00 am – 5:00 pm Educational Sessions, Industry Engagement, Networking

SATURDAY, MARCH 4

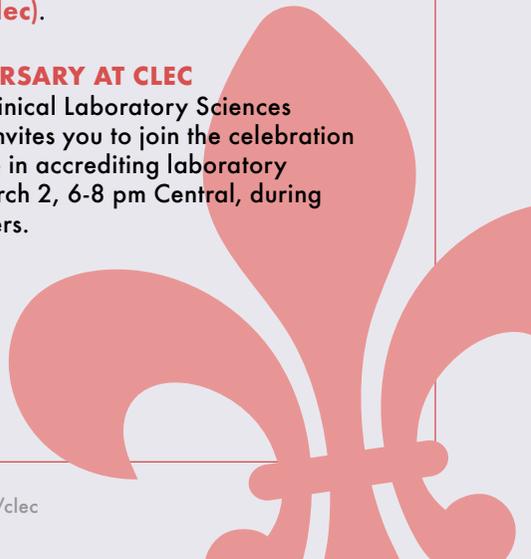
- 7:30 am – 12:30 pm Clinical Laboratory Educators Forum Meeting and Breakfast, Educational Sessions, and Closing Keynote

FRIDAY EVENING—FREE NIGHT IN NEW ORLEANS

Please join us for a happy hour immediately following the afternoon general session before you head out to experience New Orleans. The Hyatt Regency New Orleans is centered downtown near Champions Square and minutes from the historic French Quarter, Arts District, and Mississippi Riverfront. You will be free to explore the Crescent City on your own or choose one of the suggestions provided by the CLEC Host Committee. Check the CLEC website for complete details as they become available (www.ascls.org/clec).

CELEBRATE NAACLS 50TH ANNIVERSARY AT CLEC

The National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) turns 50 in 2023! NAACLS invites you to join the celebration to commemorate 50 years of excellence in accrediting laboratory educational programs on Thursday, March 2, 6-8 pm Central, during the CLEC Reception with Industry Partners.





NEW EDUCATOR WORKSHOP

THURSDAY, MARCH 2

9:00 am – 11:30 am Central Time

The New Educator Workshop (NEW) will address the needs of those new to educator positions in clinical laboratory science-related programs. NEW is designed to assist early-career educators transition into teaching roles and support their professional development. Attendees will have the opportunity to engage with presenters and fellow educators via interactive presentations, discussions, and peer-to-peer learning activities.

This year's workshop will include:

- Documentation: How to do it and why it's important
- Fundamentals of communication
- The multi-generational student population
- Experienced educator panel – Ask the experts!
- Online educational resources available

SPEAKERS: Deborah Josko, PhD, SM(ASCP)

Rutgers, The State University of New Jersey

Barbara Kraj, PhD, MLS(ASCP)^{CM}

Old Dominion University

DeAnne Maxwell, MBA, MLS(ASCP)^{CM}

Franciscan Health Indianapolis

LEVEL OF INSTRUCTION: Basic

*Additional registration required and **available to in-person attendees only.***

Cost: \$75 for ASCLS members/\$95 for non-members. Participants can earn 2.0 hours of P.A.C.E.[®] credit





NAACLS WORKSHOP

THURSDAY, MARCH 2

7:00 am – 12:00 pm Central Time

The National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) will present the following hybrid workshop, **“Preparing for Successful Accreditation: When, Why, and How,”** on Thursday, March 2, 2023, from 7:00 am - 12:00 pm Central, at the Hyatt Regency New Orleans.

This presentation will focus on the overall process of accreditation from start to finish. Emphasis will be placed on the preparation, organization, planning, writing, and the submission process for the self-study. Recommendations will be provided in how to avoid common mistakes and citations. The presentation will also walk you through the preparation, planning, and hosting of the site visit.

SPEAKERS: JENNIFER KNIGHT, MHS, MLS(ASCP)^{CM}

Mississippi Baptist Medical Center, MLS Educator on the NAACLS Review Committee for Accredited Programs (RCAP)

Keri Brophy-Martinez, MHA, MT(ASCP)

Austin Community College, Phlebotomy Educator and Chair Elect on the NAACLS Programs Approval Review Committee (PARC)

For complete information on the workshop and to register, please visit the NAACLS website at www.naacls.org after **December 1**.

*This NAACLS workshop is **SEPARATE** from the CLEC Program, and the workshop registration and payments are processed directly through NAACLS.*



EDUCATIONAL SESSIONS PREVIEW

We invite you to explore the more than 40 educational opportunities you will experience at CLEC 2023. Sessions have been grouped by themes – Education: Theory, Delivery, Format; Program Management/Administration; Student-Focused/Holistic; Discipline Specific; Miscellaneous; and Paired Presentations.

All educational sessions will be recorded, and registered attendees will have access to recordings for 30 days after the event. Each educational session is one contact hour of P.A.C.E.[®] credit. Program dates and times will be published at www.ascls.org/clec.

Note: Due to the hybrid meeting format, some sessions may be presented virtually; and educational sessions are subject to change.

EDUCATION: THEORY, DELIVERY, FORMAT

BUILDING EQUITY INTO OUR CURRICULUM

SPEAKER: **Mara Williams, EdD, MLS(ASCP)** Neumann University

Our students will build health systems in the future. Helping our students ask the right questions about data and understand current health inequities will allow them to build more equitable and effective systems. In this talk, learn more about embedding this information into our curriculum in every class.

LEVEL OF INSTRUCTION: Basic

CLINICAL CHEMISTRY SIMULATOR, EARLY EXPERIENCE

SPEAKERS: **Joanie Brocato, PhD, MLS(ASCP)**

Louisiana State University Health Sciences Center New Orleans

Daniel Haun, MLS(ASCP)H

Louisiana State University Health Sciences Center New Orleans

Minh Kosfeld, PhD, MLT(ASCP)^{CM} Saint Louis University

Mindy Lampe, MLS(ASCP)^{CM} Mercy Hospital-St. Louis

This session reviews the development of, and early experience with, a web-based simulator to prepare students for clinical practice in a clinical chemistry department. Using real patient data, it challenges the students to identify pathologies and artifacts and to indicate appropriate corrective action to resolve problematic specimens. In-class and self-practice applications are discussed.

LEVEL OF INSTRUCTION: Intermediate

THE COMPREHENSIVE LAB FINAL: A MULTIDISCIPLINARY REVIEW OF LABORATORY SKILLS AND CONCEPTS

SPEAKERS: **Melissa Poua, MS, MLS(ASCP)** Andrews University

Karen Reiner, PhD, MLS(ASCP) Andrews University

This session will review the design and implementation of a budget-friendly teaching tool for integrating multidisciplinary laboratory skills and concepts used prior to students entering their clinical rotations. This summative activity provides students with the opportunity to review key concepts and skills in all major disciplines, as well as assists faculty in gauging student readiness for clinical rotations.

LEVEL OF INSTRUCTION: Intermediate

CREATING AUTHENTIC WRITING ASSESSMENTS FOR MLS STUDENTS

SPEAKER: **Rachel Morris, PhD, MLT(ASCP)^{CM}** Michigan State University

Some form of written communication is required in any workplace. Medical labs are no exception, and our students are best served by our creating writing assignments that are authentic representations of future professional writing activities. In this fun, interactive session you will be guided through creating an assignment and assessment rubric for an authentic "lab" writing task.

LEVEL OF INSTRUCTION: Intermediate

DEIJ IN MLS: HOW TO INCORPORATE DIVERSITY, EQUITY, INCLUSION, AND JUSTICE INTO THE MEDICAL LABORATORY SCIENCES

SPEAKERS: **Morgan Cummings, MLS(ASCP)SH** The Ohio State University

Amanda Natter, MS, MLS(ASCP)^{CM} The Ohio State University

Learn how one program added DEIJ into the curriculum while still meeting time constraints and accreditation standards. A range of initiatives, from simple to complex assignments, that bring awareness to DEIJ in the laboratory sciences will be shared, as well as strategies and goals for moving forward.

LEVEL OF INSTRUCTION: Basic

DEVELOPING BEST PRACTICES FOR SIMULATION IN LABORATORY EDUCATION

SPEAKERS: **Tamera Alpaugh, PhD, MLS(ASCP)** University of Minnesota

Lorna Ruskin, EdD, MLS(ASCP) University of Minnesota

Use of simulation in lab education has accelerated due to workforce shortage and clinical placement challenges. While other disciplines have developed sim standards, they don't align with sim use in lab education. Developing simulation best practices for laboratory sciences (design, implementation, and evaluation) is recommended to provide students with relevant, quality, and transferable experiences.

LEVEL OF INSTRUCTION: Intermediate

ELEVATE AND ENRICH: A MODEL FOR PROVIDING CATEGORICAL CERTIFICATION

SPEAKERS: **Ryan Collison, SC(ASCP)^{CM}** Cleveland Clinic

Barbara Zingale, MSIT, MLS(ASCP) Cleveland Clinic

A categorical exam preparation course, run out of a hospital-based program, prepares the institution's employees with non-MLS-specific four-year degrees for the ASCP BOC categorical exams. Twenty-one of 22 employees have successfully passed the categorical exam after the program. Demand for the program, the structure, the potential challenges for both the institution and the employees will be presented.

LEVEL OF INSTRUCTION: Intermediate

ENHANCING CLINICAL EXPERIENCES WITH SIMULATIONS

SPEAKER: **Sally Lewis, PhD, MLS(ASCP),MB,HTL** Tarleton State University

Development and incorporation of high-quality laboratory simulations may serve to augment clinical experiences that are difficult to obtain due to isolated location, worker shortages, or that may be restricted in specialty areas such as microbiology and transfusion services. This presentation will highlight the experiences of medical laboratory science faculty in creating relevant scenarios.

LEVEL OF INSTRUCTION: Intermediate

A FRESH LOOK AT THE FLIPPED CLASSROOM: HOW POST-PANDEMIC STUDENT HABITS HAVE CREATED OPPORTUNITIES FOR SUCCESSFUL IMPLEMENTATION

SPEAKER: Brian Monson, MHA, MLS(ASCP), PBT(ASCP)

Tulsa Community College

Flipped classrooms are not new in education. However, when the pandemic forced students to learn via distance learning platforms, new skills and independent learning habits were created, which support the flipped classroom environment. This session will focus on innovative teaching practices and example activities that lead to improved learning outcomes in a flipped clinical chemistry course.

LEVEL OF INSTRUCTION: Basic

GAMIFICATION OF MLS CURRICULUM TO INCREASE STUDENT ENGAGEMENT

SPEAKERS: Krystina Angelini, MS, SM(ASCP)^{CM} Radford University Carilion

Jennifer McBride, MS, MLS(ASCP)^{CM}SBB^{CM} Radford University Carilion

The rigor of the MLS curriculum challenges students to amass large amounts of knowledge and skills within a relatively short time frame, which can lead to student burn out and brain fatigue. This session describes the creation and implementation of active learning strategies in the form of common childhood games to reinforce curricular concepts and increase student engagement.

LEVEL OF INSTRUCTION: Basic

GRADING FOR GROWTH: DESIGNING LABORATORY FEEDBACK METHODS TO FOSTER STUDENT COMPETENCY

SPEAKERS: Samantha Peterson, MS, MLS(ASCP)^{CM} University of North Dakota

Brooke Solberg, PhD, MLS(ASCP)^{CM} University of North Dakota

When grading student lab work, have you wondered if students understand, apply, or even read your feedback? We have! This session will discuss development and implementation of a new feedback approach that takes students beyond error awareness and requires them to analyze and apply what they've learned. It will also cover use of this approach in face-to-face and online hematology lab settings.

LEVEL OF INSTRUCTION: Intermediate



THE IMPLEMENTATION OF SMALL TEACHING STRATEGIES IN A HYBRID HEMATOLOGY COURSE

SPEAKER: Stephanie Cochrane, MS, MLS(ASCP)^{CM}

Rutgers University School of Health Professions

This session will discuss small teaching strategies, such as rebranded office hours, guided notes, choice board activities, various types of formative assessments, elaborate feedback, video announcements, and more, that were implemented in a hybrid hematology course to create a meaningful learning experience. These strategies can be implemented into any course or subject area.

LEVEL OF INSTRUCTION: Basic

MEDICAL LABORATORY EDUCATOR PERSPECTIVES ON ACADEMIC INTEGRITY

SPEAKER: Andrea Jensen, MPH, MLS(ASCP)^{CM} University of Illinois Springfield

The findings of a qualitative study exploring the academic integrity related perspectives of medical laboratory educators through a narrative inquiry of their lived experiences will be discussed. Attendees will have the opportunity to compare study participants' experiences and practices with their own, and to consider study participants' recommendations for teaching academic integrity in medical laboratory professional programs.

LEVEL OF INSTRUCTION: Basic

TEACHING STUDENTS WHO HAVEN'T LEARNED HOW TO LEARN: A MODERN DAY APPROACH TO TEACHING THE "POST-PANDEMIC" MLS STUDENT

SPEAKERS: Mattie Brechbiel, MS, MLS(ASCP)^{CM} Grand Valley State University

Lilianne Nelson, MHS, MLS(ASCP)^{CM} Grand Valley State University

Dana Vaughan, MLS(ASCP)^{CM} Grand Valley State University

Students seem underprepared? Is there a dichotomy between students who prefer traditional teaching and those accustomed to online? Teaching during the pandemic has been stressful. A level of flexibility has been established that is not sustainable. Meet your "new learners" in the middle: set boundaries, offer study resources, and repurpose tools you've already developed. Take back your classroom!

LEVEL OF INSTRUCTION: Intermediate

TEACHING THE TEACHERS: MLS PROGRAM INSTRUCTOR TRAINING

SPEAKERS: Holly Covas, EdD, MLS(ASCP)^{CM}

Vanderbilt University Medical Center

Sylvia Verhoven, MLS(ASCP)^{CM} Vanderbilt University Medical Center

This presentation will discuss how our hospital-based MLS program created a training program to introduce its instructors to educational principles and practices. Topics were developed for laboratory professionals transitioning into instructor roles and for instructors with years of experience.

LEVEL OF INSTRUCTION: Intermediate

TROUBLESHOOTING A TROUBLING RESULT: TRANSFORMING CASE STUDIES INTO IMMERSIVE LEARNER EXPERIENCES

SPEAKER: Shawn Luby, MS, MLS(ASCP)^{CM} University of North Carolina

Interactive case studies offer learners the opportunity to explore unexpected values in clinical testing without the necessity of generating results in a student laboratory setting. The presenter will guide participants through the development of an interactive case study in immunology where learners troubleshoot a questionable result and experience the impact of resolving unexpected clinical values.

LEVEL OF INSTRUCTION: Intermediate

VERBAL TO VISUAL: CREATING GRAPHIC ORGANIZERS AND SKETCH NOTES TO IMPROVE STUDENT LEARNING OUTCOMES (FROM SKETCHY TO TOP SCORE)

SPEAKERS: Leslie Cooper, MS, MLS(ASCP)^{CM} Thomas University

Phyllis Ingham, EdD, MLS(ASCP)^{CM} West Georgia Technical College

Creating graphic organizers utilizing sketch note techniques becomes a powerful tool for students to organize, clarify, or simplify complex information by helping students construct understanding through an exploration of the relationships between concepts. Graphic organizers and sketch notes are a useful scaffold to support student learning and increase BOC pass rates.

LEVEL OF INSTRUCTION: Intermediate

WHY AND HOW YOU SHOULD CREATE ACCESSIBLE CONTENT FOR YOUR COURSES

SPEAKER: Laine Stewart, MLS(ASCP)^{CM} University of North Carolina

Accessibility is a legal requirement for any course content made available in an electronic format. However, many instructors are not aware that it is necessary, nor how to accomplish it. This session will present an overview of accessibility regulations and outline some of the primary strategies and available tools for creating content that meets the standards.

LEVEL OF INSTRUCTION: Basic



PROGRAM MANAGEMENT/ADMINISTRATION

DEVELOPING A PROGRAM EVALUATION PLAN

SPEAKER: Janice Conway-Klaassen, PhD, MLS(ASCP)SM, FACS^c
University of Minnesota

Program evaluation plans are essential tools for assessment of professional program effectiveness for accreditation and institutional analysis, as well as internal program development. This session will provide a practical approach to the evaluation process, implementation, and reflective analysis to “close the loop” for program quality.

LEVEL OF INSTRUCTION: Intermediate

INCREASE ENROLLMENT THROUGH UNDERGRADUATE RESEARCH— IF YOU BUILD IT, THEY WILL COME

SPEAKER: Grace Leu-Burke, MSCLS, MLS(ASCP)^{CM}
University of Alaska Anchorage

“Are there opportunities for research?” is frequently asked by high school seniors and undergraduate students when deciding a college major. Medical laboratory science is a laboratory-based discipline and a natural avenue for undergraduate research. We’ll discuss how the implementation of ongoing research into the microbiology curriculum helped maintain enrollment through the pandemic, along with increasing future registration.

LEVEL OF INSTRUCTION: Basic

STRATEGIES FOR INCREASING YOUR PROGRAM’S ENROLLMENT

SPEAKERS: Takara Blamires, MS, MLS(ASCP)^{CM} University of Utah
Karen Brown, MS, MASCP, MLS(ASCP)^{CM} University of Utah

The shortage of laboratory professionals in the workplace continues to be a significant concern. Laboratory science programs can positively impact this shortage by providing more graduates. But how can programs increase enrollment? This session discusses operational changes and recruitment initiatives one program implemented to expand student enrollment.

LEVEL OF INSTRUCTION: Basic

STUDENT-FOCUSED/HOLISTIC

ACADEMIC TRAUMA IN HIGHER EDUCATION

SPEAKER: Kyle Riding, PhD, MLS(ASCP)^{CM} University of Central Florida

All levels of education can inadvertently involve systems and practices that perpetuate or promote trauma amongst teachers and learners. These systems and practices are cyclical remnants of pressures internal and external to the classroom. This session aims to define academic trauma, provide examples of its negative impact, and highlight learners at higher risk for poorer outcomes.

LEVEL OF INSTRUCTION: Advanced

AVOIDING DISTRACTIONS: TECHNIQUES FOR A DEEP AND EFFECTIVE LEARNING PROCESS IN THE ONLINE CLASSROOM

SPEAKER: Elinette Albino, PhD, MLS(ASCP) University of Puerto Rico

Being able to concentrate on educational tasks requires more effort and discipline in a world full of distractions. In this session, attendees will learn different techniques to help avoid distractions for a successful delivery during synchronic teaching interactions in the online classroom. Techniques to maintain focus and engage students will also be discussed.

LEVEL OF INSTRUCTION: Intermediate

STUDENT CAMARADERIE, RETENTION, AND RECRUITMENT: YOU CANNOT HAVE ONE WITHOUT THE OTHERS!

SPEAKERS: Danyel Anderson, EdD, MPH, MLS(ASCP)

Ozarks Technical Community College

Darinda Mast, MLT(ASCP)

Missouri Health Professions Consortium MLT Program

Amanda Reed, MAE, MLS(ASCP)^{CM} Saint Louis University

Alese Thompson, MS, MLS(ASCP)^{CM} University of Missouri

Students need each other to get through our rigorous programs. Working together and developing camaraderie certainly helps with retention and recruitment efforts. This presentation focuses on information from actual students from various PBT/MLT/MLS programs which will help us understand how we can create a more well-rounded environment for students to assist with retention and recruitment efforts.

LEVEL OF INSTRUCTION: Basic

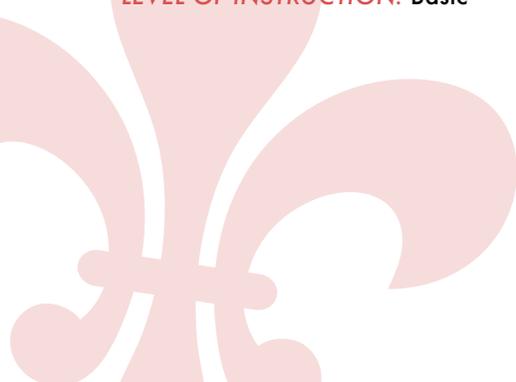
SUPPORTING NON-TRADITIONAL STUDENTS IN OUR ONLINE PROGRAMS

SPEAKERS: Stacie Lansink, MS, MLS(ASCP) South Dakota State University

Tiffany Niemann, MS, MLS(ASCP) South Dakota State University

This session will highlight the population of non-traditional students and focus on the challenges they must face in an online learning environment. It will also cover the strategies and resolutions taken to address learning obstacles, their common academic/outreach challenges, simulation ideas, and provide suggestions for how we mitigated some of their tribulations.

LEVEL OF INSTRUCTION: Basic



DISCIPLINE SPECIFIC

THE DOCTORATE IN CLINICAL LABORATORY SCIENCES: LABORATORY CONSULTS AND (DCLS) VALUE ADDED TO MLS EDUCATION

SPEAKERS: Rajkumar Rajendran, DCLS, MLS(ASCP)

The University of Texas Medical Branch

Jose “Eddie” Salazar, PhD, MLS(ASCP)^{CM}

The University of Texas Medical Branch

DCLS can be valuable additions to medical laboratory science program faculty. This session will highlight the key skills, clinical, academic, and research experiences possessed by a current practicing DCLS and how these aid in their roles as educators. Information on how to pursue this degree will also be discussed.

LEVEL OF INSTRUCTION: Intermediate

EFFECTIVE TEACHING PRACTICES FOR HEMATOLOGY AND HEMOSTASIS

SPEAKERS: LeAnne Hutson, PhD, MLS(ASCP)^{CM} Tarleton State University

Allison Kelly, MS, MLS(ASCP)^{CM}SBB^{CM} Tarleton State University

This session will provide active learning techniques used to establish productive classroom environments and promote higher order thinking for both online and face-to-face classes. The presenters will focus on proven techniques of active learning with MLS and MLT students in hematology and hemostasis.

LEVEL OF INSTRUCTION: Basic

WEAVING MOLECULAR ADVANCES AND TECHNIQUES INTO THE MLT/MLS CURRICULUM USING FREE AND COST-EFFECTIVE RESOURCES

SPEAKERS: Sebastian Kraves, PhD miniPCR bio

Alisa Petree, MHSM, MLS(ASCP)^{CM} McLennan Community College

Rapidly advancing molecular techniques and methods impact all areas of the clinical laboratory. This session will include resources to teach CRISPR, sequencing, gene therapy, and molecular pathogen detection techniques across the curriculum using free, cost-effective, and engaging resources. Ideas and examples for teaching sickle cell anemia and thalassemia will be highlighted.

LEVEL OF INSTRUCTION: Intermediate

MISCELLANEOUS

BEING AN EDUCATOR: WHY THE TEACHER IS MORE IMPORTANT THAN THE LESSON

SPEAKERS: Demetra Castillo, MAEd, MLS(ASCP)^{CM} University of Cincinnati

Pat Tille, PhD, MLS(ASCP) University of Cincinnati

Beth Warning, MS, MLS(ASCP)^{CM} University of Cincinnati

This session will discuss strategies of being a successful educator inside and outside of the classroom. Often faculty focus on content and may not be familiar with strategies that make one an outstanding educator, but also provides the student, the organization, and the profession with a successful professional that is impactful to all stakeholders in laboratory science.

LEVEL OF INSTRUCTION: Intermediate

INFUSING MEDICAL ETHICS INTO THE CURRICULUM

SPEAKERS: Joel Mortensen, PhD, AHI(AMT) Cincinnati Children's Hospital

Beth Warning, MS, MLS(ASCP)^{CM} University of Cincinnati

As dialogue on ethical issues and practices continues, it is necessary to address medical ethics as part of professionalism. Ethics includes assessing specimen quality, recognizing unnecessary testing, and acknowledging the identity needs of patients and co-workers. This session will provide examples of ethical issues present in the laboratory and strategies to add ethics in the curriculum.

LEVEL OF INSTRUCTION: Basic

MIGRATING TOWARDS THE ANODE: HOW EDUCATION CAN CHANGE THE CULTURE OF THE LABORATORY PROFESSION

SPEAKERS: Demetra Castillo, MAEd, MLS(ASCP)^{CM} University of Cincinnati

Kristen Pesavento, EdD, MLS(ASCP)^{CM} Loyola University Chicago

Students have a unique perspective to be changemakers of the laboratory profession. Through transformative learning, students can identify areas of need and address them using servant leadership. Opportunities to apply servant leadership to influence change, as well as the impact of DEI and intrinsic biases on the culture within and outside the lab, will be discussed.

LEVEL OF INSTRUCTION: Intermediate



UNVEILING THE HIDDEN PROFESSION - RECRUITMENT TO MLS

SPEAKERS: **Kathleen Hoag, PhD, MLS(ASCP)^{CM}** Michigan State University

Michelle Markstrom, H(ASCP) Michigan State University

Angela Wholehan, MS, MLS(ASCP)^{CM}SBB^{CM} Michigan State University

To address the critical staffing shortages and declining student population, we developed a strategic working group to recruit students into our program. This presentation will outline the strategies implemented to raise awareness of our program and the profession. We will describe current and future outreach activities we developed which others may adopt in their programs.

LEVEL OF INSTRUCTION: Basic

PAIRED PRESENTATIONS— *The following are 30-minute presentations paired in a one-hour session focused on a specific topic, technique, or tool.*

FOCUS ON ADMISSION PROCESS

A NEW TWIST ON INTERVIEW QUESTIONING AND RANKING APPLICANTS

SPEAKER: **Terry Kotrla, MS, MLS(ASCP)BB**

Austin State Hospital MLS Program

Do your interview questions provide you with information about the characteristics you seek in your students? Does your admissions committee struggle with ranking applicants? This session will address mapping interview questions to applicant characteristics and add an additional step in the final ranking process to ensure all committee member voices are equally heard.

CREATING A HOLISTIC ADMISSIONS PROCESS

SPEAKER: **Marnie Imhoff, MA, MLS(ASCP)^{CM}**

University of Nebraska Medical Center

The addition of multiple mini-interviews, non-cognitive essay questions, and scenario-based video questions were used to create a holistic admissions process for our program. The principles introduced in this session can be applied to create an equal opportunity for all applicants by considering more than just grades in the admissions process.

LEVEL OF INSTRUCTION: Intermediate

FOCUS ON CASE STUDIES**ALTOGETHER NOW! EARLY INTRODUCTION OF CASE-BASED LEARNING FOR SUCCESS IN CLINICAL CHEMISTRY**

SPEAKER: **Cristy Creighton-Moss, MBBS, MLS(ASCP)^{CM}** Andrews University

Clinical chemistry is (arguably) one of the most content-dense areas in the laboratory, with its inclusion of biochemistry, physiology, and pathology. And some students struggle to integrate didactic information with clinical scenarios. Engage students early and often with case-based, active learning strategies intended to improve retention and strengthen neural networks necessary for retrieval of information.

TEACHING CASE STUDIES IN IMMUNOHEMATOLOGY

SPEAKER: **Marianne Downes, PhD, MLS(ASCP)^{CM}**

Original, open-access and Creative Commons licensed immunohematology case-studies will be presented and shared. Additionally, we will discuss ideas for adapting fair-use materials for use to multiple levels of students (MLT, MLS, and graduate).

LEVEL OF INSTRUCTION: Intermediate

FOCUS ON THE MICROBIOLOGY LABORATORY**STANDARDIZING MICROBIOLOGY LABORATORY PREPARATIONS: MAXIMIZING THE LEARNING EXPERIENCE FOR INSTRUCTORS AND STUDENTS**

SPEAKER: **Linsey Donner, PhD, MLS(ASCP)^{CM}**

University of Nebraska Medical Center

Microbiology laboratory sessions have a variety of challenges extending from pre-lab preparations, day-of lab set-up, and discrepancies among learner results and instructor feedback during lab. This session will discuss the creation of a microbiology lab instructor manual which allows for standardized lab sessions to improve the learning experience for students and instructors.

WHAT'S NEW IN THE MICRO LAB: IMPACT ON CLINICAL ROTATIONS

SPEAKER: **Paula Mister, MS, MLS(ASCP)SM** Johns Hopkins Hospital

This session will review typical program expectations for students in clinical microbiology rotations, and explain the challenges of meeting requirements amid massive changes in technology currently occurring in many labs. Participation of attendees is encouraged, to elicit ideas to provide applicable, quality experiences for students that realistically prepares them for careers in the current laboratory environment.

LEVEL OF INSTRUCTION: Intermediate

FOCUS ON SIMULATIONS**LOW COST ACTIVITIES FOR SIMULATION LABS**

SPEAKER: **Emily Matthys, MS, MLS(ASCP)^{CM}** Northern Michigan University

To meet the needs of our students, and to stay aligned with accreditation standards, we created a “simulated” microbiology laboratory in our university-based lab. Operating a simulated laboratory experience comes with a great deal of monetary cost. In this session we will outline some cost-saving activities and resources that we incorporated into our curriculum.

SIMULATION SCENARIOS: FROM DISASTER TO TRANSFUSION

SPEAKER: **Deborah Fox, PhD, MLS(ASCP)**

Franciscan Missionaries of Our Lady University

This presentation will explore two interprofessional simulation scenarios performed within a Simulated Environment Teaching Hospital (SETH). Both a campus-wide disaster simulation and a transfusion reaction simulation will be discussed. This session will also identify challenges and opportunities related to simulation.

LEVEL OF INSTRUCTION: Basic

FOCUS ON SERVICE LEARNING**INCREASING STUDENT ENGAGEMENT AND RETENTION THROUGH SERVICE**

SPEAKER: **Melissa Wyatt, MS, MLS(ASCP)^{CM}** Eastern Kentucky University

This session explores using service projects to increase student engagement and retention. Service learning can increase leadership and interpersonal skills when incorporated into the MLS curriculum.

MLS INTERPROFESSIONAL SERVICE LEARNING: LESSONS LEARNED AT-HOME AND ABROAD

SPEAKER: **Adrienne Davis Zapfe, EdD, MLS(ASCP)^{CM}**

University of Cincinnati

As MLS educators prepare students to contribute to the service of this profession, service-learning opportunities can be offered to further student experience outside of the classroom and practicum settings. Through community-based partnerships, students can achieve clinical skills and learn the value of critical thinking, communication, teamwork, and cultural competence.

LEVEL OF INSTRUCTION: Intermediate

FOCUS ON STUDENTS**THE DIFFICULT TASK OF TEACHING SOFT SKILLS**

SPEAKER: Kristen Pesavento, EdD, MLS(ASCP)^{CM} Loyola University Chicago

Laboratory educators have mastered the ability to teach scientific disciplines but may not fully address the additional interpersonal skills needed to thrive in a workplace environment. Incorporation of opportunities to facilitate the importance of communication, emotional intelligence, and leadership, students can harness the competencies necessary to not only lead in the lab, but in all healthcare.

THE TOXIC EFFECT: ADDRESSING TOXICITY IN THE ACADEMIC ENVIRONMENT

SPEAKER: Dana Baker, MBA, MS, MLS(ASCP)^{CM}

The University of Kansas Medical Center

Toxic learning environments can have a negative impact on students as it relates to psychological and emotional safety. Issues such as conflict, frustration, and stress can result from the toxicity experienced in some academic settings. In this session, we will discuss toxic classroom culture and explore strategies to mitigate toxicity when encountered in the learning environment.

LEVEL OF INSTRUCTION: Basic

FOCUS ON LEARNING TOOLS**MIND MAPPING, ONE TOOL FOR THE JOURNEY TO ACADEMIC SUCCESS**

SPEAKER: Dawn Taylor, EdM, MLS(ASCP) Oregon Institute of Technology

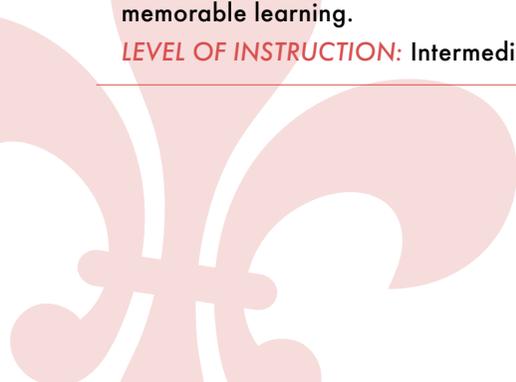
Mind mapping is more than a flow chart or concept map. It is a creative, active learning tool to help students organize and connect information. We will discuss the “rules” of mind mapping and one way to introduce the topic and teach students to successfully mind map.

ONE-MINUTE PRECEPTOR TECHNIQUE FOR STUDENT ENGAGEMENT

SPEAKER: Allegra McMillen, MEd, MLS(ASCP)^{CM} Parkview Health

The one-minute preceptor technique has successfully been used in non-laboratory medical education for engaging students, enhancing critical thinking, and providing an easy-to-remember framework with which faculty and preceptors can effectively teach principles in under five minutes. Whether teaching five students or 50, this method will allow you to connect students more effectively to memorable learning.

LEVEL OF INSTRUCTION: Intermediate



FOCUS ON ENHANCING OUTCOMES

DESIGNING INCLUSIVE AND ENGAGING ONLINE LEARNING

SPEAKER: Susan Stalewski, MBS, MLS(ASCP)^{CM}

University of Wisconsin-Milwaukee

Engaging and inclusive design is essential for student success, particularly for those with risk factors that may impede their retention and persistence. This session demonstrates how intentional online course design focused on engagement and inclusion impacts student success and retention and also presents ideas and tools for application in any course or program, including online.

PROGRAM OUTCOME DATA: FROM A CATERPILLAR TO A BUTTERFLY

SPEAKER: Nathan Johnson, PhD, DLM(ASCP)

University of Arkansas for Medical Sciences

Program outcome data is very important to the successful management of programs; however, the calculation of this data is often laborious and seen by many as a necessary annual “chore” and not an enjoyable experience. This session will provide some quick hitting examples of how this data can be looked at from a different vantage point.

LEVEL OF INSTRUCTION: Intermediate



REGISTRATION RATES

	EARLY BIRD by 1/6/23	REGULAR by 2/10/23	ONSITE starts 2/23/23
ASCLS Professional Member	in-person \$695 virtual \$595	in-person \$745 virtual \$645	in-person \$795 virtual \$695
ASCLS Developing Professional and Ascending Professional Member	in-person \$595 virtual \$495	in-person \$645 virtual \$545	in-person \$695 virtual \$595
Non-Member	in-person \$855 virtual \$755	in-person \$895 virtual \$795	in-person \$945 virtual \$845
Guest	N/A	N/A	in-person \$200

Pre-Conference Workshop: \$75/ASCLS Member; \$95/Non-Member.
Available to in-person attendees only.

Should your circumstances change, and you want to change your registration from virtual to in-person, or vice versa, you can modify your registration at any time. Modifications from in-person to virtual attendance made before **February 10, 2023, will include the registration payment balance refunded. After February 10, no refunds will be issued.*

IN-PERSON CLEC 2023 REGISTRATION

includes access to all educational sessions, industry partner activities, all educational session recordings for 30 days following the event, reception on Thursday, lunch on Friday, continental breakfast on Thursday and Friday, and a cocktail hour on Friday. **Discounted early bird registration fees are only available through January 6, 2023.**

VIRTUAL CLEC 2023

REGISTRATION includes access to all educational sessions, industry partner virtual activities, virtual networking events, and all educational session recordings for 30 days following the event. **Discounted early bird registration fees are only available through January 6, 2023.**

The member fees listed above are for persons holding current membership in the American Society for Clinical Laboratory Science (ASCLS). If you are not currently a member, join online at www.ascls.org/membership/join or submit a paper membership application and dues payment with your paper CLEC registration by mail to receive the member discount on your registration fee. For a membership application, call ASCLS at 571-748-3770 or download the form at www.ascls.org/join.

HOW TO REGISTER

ONLINE REGISTRATION (Credit Card): Register online at www.ascls.org/CLEC. Click the Registration tab for online registration.

REGISTER BY MAIL (Check or Purchase Order): Download the registration form at www.ascls.org/CLEC

Make checks payable to: ASCLS CLEC. Payment must accompany your registration form for your registration to be processed. If paying by purchase order, please include your purchase order number on the registration form. **NOTE: If purchase order payment is not received prior to the start of the conference, payment via check or credit card will be collected onsite or registration will not be honored. Mailed registrations postmarked by January 6 will qualify for the early bird registration fee discount.** Registrations postmarked after this date will be processed at the regular registration rate.

Mail your completed registration form and payment to the mailing address indicated on the form.

For registration, membership, or other inquiries, contact the ASCLS office at **571-748-3770 or ascls@ascls.org**.

HOTEL

Reserve your room at the Hyatt Regency New Orleans. Visit www.ascls.org/CLEC and click on the CLEC Accommodations tab for more information.

ROOM RATES: \$259 per night (single/double) + taxes and fees. To receive the discounted rate, reserve your room online at <https://www.hyatt.com/en-US/group-booking/MSYRN/G-SCLS>.

ACCESSIBILITY

If you have a disability and require a reasonable accommodation to fully participate in this event, please **contact ASCLS before January 6, 2023**, by email at ascls@ascls.org or by telephone at 571-748-3770 to discuss your accessibility needs. Closed captioning will be available on the broadcast of educational sessions.

CANCELLATIONS AND REFUNDS

If it becomes necessary for you to cancel your CLEC registration, please **notify ASCLS in writing before January 6, 2023**. Your registration fee will be refunded, less a \$75 processing fee. Written cancellations/requests for refunds must include registrant's name, signature, return address, and the name of the person, company, or institution to which the refund check should be made payable. If needed, modifications from in-person to virtual attendance can be made up until February 10, 2023, with the balance refunded.

CLIMATE, DRESS, AND DESTINATION

New Orleans has pleasant weather in March with highs in the mid-70s, lows in the mid-50s, and fairly sunny days. A jacket and umbrella may be necessary, but as always, layering your clothing works best to ensure you will be comfortable in the sessions as well as in the evenings around town.



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**39th Annual
Clinical Laboratory
Educators Conference**

March 2 - 4, 2023
New Orleans, LA
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