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ASCLS-Michigan is proud to present this year's program "It’s in Our Blood"! Make plans to attend the 2019 ASCLS-Michigan Annual Conference and Exposition at the Kellogg Hotel and Conference Center in East Lansing, Michigan on April 10th, 11th and 12th. It’s our pleasure to offer continuing education sessions presented by speakers who are experts in their fields and an exhibit hall filled with industry leaders. This meeting is an opportunity to network with over 500 other laboratory professionals, celebrate our profession by honoring dedicated and hard-working individuals at our annual awards ceremony, catch up on the latest information by attending scientific sessions, and re-connect with old friends.

Lindsay Hengesbach
ASCLS-Michigan Annual Conference General Chair
GENERAL INFORMATION

INTERNET ACCESS
WiFi access will be provided at no additional charge throughout the hotel and convention center.

CONTINUING EDUCATION CREDIT
The ASCLS-Michigan Annual Conference offers a wide range of educational opportunities to meet your continuing education requirements. ASCLS-Michigan is an approved provider of continuing education by the P.A.C.E.® program, which is accepted by the Board of Certification (BOC) Credential Maintenance Program and all licensing states. Over 52 hours of quality P.A.C.E.® approved programming will be offered.

Meeting attendees will complete session evaluations online and self-prepare their P.A.C.E.® Certificate of Attendance by using the online ASCLS C.E. Organizer program. Further instructions will be given by session moderators during the meeting.

ASCLS-MI GOVERNANCE SESSIONS

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<tr>
<td>Wednesday April 10th</td>
<td>Board of Directors Meeting</td>
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<tr>
<td>Friday April 12th</td>
<td>Networking Breakfast &amp; Membership Meeting</td>
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POSTER SESSION
Student Posters will be displayed and presented Wednesday, April 10th, 8:00am - 12:00 pm. After judging, attendees have an opportunity to view the new and interesting scientific information presented by our future laboratory professionals. For more information on poster presentations, please see the ASCLS-Michigan website or the ASCLS-Michigan meeting app.

CONFERENCE OBJECTIVES
Participants of the ASCLS-Michigan Annual Meeting will be able to:
1. Integrate the latest technologies into clinical laboratory practice.
2. Use management techniques and strategies to meet the challenges of laboratory operations.
3. Correlate human pathophysiology and clinical laboratory data with disease states.
4. Network with peers and learn from the experiences of other laboratory professionals.

PRIZE DRAWINGS
Please visit the Exhibit Hall on Wednesday and Thursday for a chance to win daily prize drawings.

EVENTS XD APP
Event information pertaining to the ASCLS - Michigan Annual Conference and Exposition can be accessed through our event ‘App’ at EventsXD. Attendees must download the EventsXD Application and search by ‘ASCLS’ to find our event, which is listed under:

ASCLS-Michigan 2019 Annual Meeting and Exhibits

If you are interested in using the App but have questions or issues downloading it, we will have ‘tech support’ available during the meeting (at or near the registration desk). Note: Message & Data Rates May Apply.
ASCLS-Michigan participates in the ASCLS Community Outreach project to raise money each year to support a charitable cause in the community of the annual conference. The 2019 recipient is the Michigan State University Community Music School (MSU CMS). Their mission is to provide a creative and welcoming environment where music experiences, education, and therapy services inspire individuals at all ability levels and stages of life to achieve their personal best. Founded on the belief that music dramatically enhances the quality of life, CMS offers opportunities for the study, appreciation and therapeutic use of music while nurturing the musical development of all. ASCLS-MI past-president and 2019 annual conference general chairperson Lindsy Hengesbach explains, “My oldest son, Trevor, was diagnosed with macular degeneration at the age of seven and was pronounced legally blind shortly thereafter. He has overcome many obstacles and part of that is due to the confidence he has built by developing his musical talents through programs at the MSU CMS. The MSU CMS has truly lived up to its mission by providing music education at all ability levels. I believe that music benefits everyone. Please help me support the school’s efforts to bring music to everyone.” Donations will be collected on site and forwarded to the MSU CMS upon conclusion of the meeting.

Identification badges should be picked up at the registration desk along with registration materials and must be worn for admission to all sessions, exhibits, meetings, workshops and social functions. Replacement badges may be obtained for a fee of $5.00.

ASCLS-Michigan will provide electronic copies of handouts to meeting attendees if available from the speakers. If paper handouts are preferred, attendees may access them through the ASCLS-Michigan website: www.ascls-michigan.org.

Once again we will have a variety of exciting items for bid at the Student Award Silent Auction during the ‘Celebration of the Profession Reception and Awards Ceremony’, Thursday, April 12th (4:00 - 8:00 pm). This is an important opportunity to invest in our profession and its students. Profits from the auction are used to fund a number of student awards. Items may be displayed in the Exhibit Hall for preview during exhibit hours, as space permits.

**Wednesday April 10th**
- Exhibits Open: 10:00 AM - 4:15 PM
- Refreshment/Networking With Exhibitors: 10:00 AM - 11:30 AM
- Refreshment/Networking With Exhibitors: 3:00 PM - 4:15 PM

**Thursday April 11th**
- Exhibits Open: 7:45 AM - 2:00 PM
- Beverage Break: 10:30 AM - 11:15 AM
SPECIAL EVENTS

APRIL 10

OPENING KEYNOTE 11:30AM-12:30PM
COMMUNICATION BIOHAZARD
CHERIE V. PETERSEN, BA, ARUP LABORATORIES

Chérie Petersen has spent the past 25 years developing educational programs and resources specifically designed for laboratory professionals by combining her experience and knowledge of the laboratory industry with her passion for patient-centered care and a meaningful contribution through professional development.

As the Distance Education Program Coordinator for ARUP’s Institute for Learning she is responsible for developing, managing, and delivering educational opportunities to a broad range of industry professionals. She directs ARUP’s rapidly growing educational website that has approximately 75,000 unique visitors watching over 70,000 educational videos, while issuing more than 35,000 continuing education credits per year to physicians, pathologists, and medical laboratory scientists.

This session is sponsored by ARUP Laboratories

DCLS: CONTRIBUTING QUALITY & VALUE IN DELIVERY OF CLINICAL LABORATORY SERVICES*
NADINE A. FYDRYSZEWSKI, PHD, MLS(ASCP)™, RUTGERS UNIVERSITY

Nadine A. Fydryszewski, PhD, MLS(ASCP)™ is a professor and Vice Chair at Rutgers University Department of Clinical Laboratory and Medical Imaging Sciences. She is Program Director of the very first Doctorate in Clinical Laboratory Science Program(DCLS). Nadine is ASCLS Region II Director and has chaired the DCLS Oversight Committee along with the Scope of Practice Documents Revision Task Force and DCLS position paper. She has been an invited speaker at international conferences for laboratory professionals in Germany, Taiwan, Croatia, and Norway, as well as numerous US conferences.

*$30 Ticket for dinner and RSVP required for this session

PRESENTATION&DINNER 6:30PM-8:00PM
LIFETIME ACHIEVEMENT AWARD
Sponsored by American Proficiency Institute

The ASCLS-Michigan Lifetime Achievement Award will be presented during the dinner. This award is given to an individual with at least 20 years in the profession who has made outstanding contributions to advance, promote or improve the profession.
SPECIAL EVENTS

APRIL 11

GENERAL SESSION
ADDRESSING THE CLINICAL LABORATORY WORKFORCE SHORTAGE
SUSANNE NORRIS ZANTO, MPH, MLS(ASCP)SM, LABORATORY SOLUTIONZ

Susanne (Susie) Norris Zanto currently works as a laboratory consultant with Laboratory SolutionZ after retiring from the Montana Public Health Laboratory, where she worked in management and technical positions for over 30 years. As a past ASCLS President, a Councilor for the American Society for Microbiology, and a Committee Chair for the Association of Public Health Laboratories, Susie has had opportunities to interact with other laboratory professionals on many topics, including the workforce shortage.

In 2017-18, she chaired the ASCLS Workforce Shortage Position Paper Task Force, currently is the ASCLS representative to the Coordinating Council for the Clinical Laboratory Workforce (CCCLW) and worked with a design team to revitalize the Laboratory Science Careers website.

LUNCH & LEARN
SECURITY AWARENESS AND DE-ESCALATION IN HEALTHCARE
BRADLEY ESTEP, CHSS (CERTIFIED HEALTHCARE SECURITY SUPERVISOR-IAHSS)

As a Manager for Spectrum Health Security Services, Brad Estep oversees the Officer and Clinical Staff training programs which includes development of curriculum for more than 30,000 staff members. Some of his team’s most recent accomplishments include attaining CEU’s for their Workplace Violence curriculum and launching their first healthcare-specific Crisis Intervention Team for behavioral health.

Lunch is included with registration, RSVP required.
SPECIAL EVENTS

APRIL 11

STUDENT FORUM MEETING AND LUNCH
12:30PM-1:30PM
NICHOLE LEASHER, ASCLS-MI STUDENT REPRESENTATIVE, GVSU

Lunch is included with registration, RSVP required.

The student forum meeting will offer the chance to participate in discussions led by the current student representative on issues of importance to students in the profession.

All students are encouraged to attend.

PARTY & RECOGNITION
CELEBRATION OF THE PROFESSION RECEPTION AND AWARDS CEREMONY
4:00PM-8:00PM

Join us for cocktails (cash bar) and appetizers as we celebrate our profession together. Enjoy an evening of camaraderie and fun with fellow colleagues, alumni and friends. Later in the night’s celebration we will enjoy the a cappella musical entertainment of the Spartan Dischords.

The annual ASCLS-Michigan Awards Ceremony will be held during the reception.

The following honors will be presented: ASCLS-Michigan Member of the Year, Pam Agren Inspiration Award, Donna Duberg Mentorship Award, Martha Roulund Membership and Presidential awards. Also honored will be Omicron Sigma nominees, winners of the Joseph Miller Memorial scholarship, poster/oral competitions and mock certification examinations.
SPECIAL EVENTS

**BREAKFAST & MEETING**
**NETWORKING BREAKFAST AND MEMBERSHIP MEETING**

7:30AM - 9:00AM

Register to attend ASCLS-Michigan’s Networking Breakfast and Membership Meeting. Become informed on happenings in our organization and network with colleagues all while you enjoy a continental breakfast.

Complimentary – Must RSVP on registration form. All attendees are welcome to attend.

**LUNCH & LEARN**
**GROWING INTO YOUR NEXT JOB: BUILDING A CAREER OF SATISFACTION AND SUCCESS**

12:00PM-1:30PM

Dr. Doig has provided career assistance to numerous junior colleagues through her academic responsibilities and professional society activities. She received the ASCLS-MI Donna Duberg Mentorship Award and the Junior Faculty Mentorship Award from the College of Natural Science at MSU. Dr. Kathy Doig retired from Michigan State University after a 40 year career in clinical laboratory practice and teaching.
APPRECIATION

The American Society for Clinical Laboratory Science – Michigan gratefully acknowledges the following organizations for their generous support of speakers and/or direct financial contributions toward the 70th Annual ASCLS – Michigan Meeting.

Special thanks to the members of the ASCLS-Michigan Annual Meeting Committee: Lindsay Hengesbach, Lindsey Foos, Romy Selzer, Andrea Hickey, Jean Garza, Michelle Russell, Alicia Khuzia, Nicole Eadeh, Kay Castillo, Anna Sharkey, Kyle McCafferty, Roger Paxton, Lance Aquilina, Mariane Wolfe, Stephanie Rink, Renee Sutton, Carey Loveland, Ric Benson, Shawn Videan, Nichole Leasher, Darby Naheedy, Kristin Landis-Piwowar, Kathy Doig, and Becky Potter.

LODGING

Group Reservations
Reservations may be made online or by phone. Please contact the Kellogg Hotel & Conference Center to reserve using the group code below. Reserve your room at the Kellogg Center by March 08, 2019. Reservations made after the group room block release date will be subject to room and rate availability.

Group Code: 1904MASCLS.
Room Rates: $118/night, plus applicable state and local taxes.

Online Reservation Instructions
For ease and 24 hour access to booking we encourage guests to book online by following the instructions below:

- Go to www.kelloggcenter.com
- Click on the “Reservations” link at the top of the page
- Select “Book Now Online” link
- Enter arrival, departure, rooms, and number of adults and children
- Select “More Options” and enter your Group Code: 1904MASCLS
- Click “Check Availability”

Phone Reservation Instructions
- Call 800-875-5090 and refer to the Group Code: 1904MASCLS or Block Name: ASCLS-Michigan 2019 State Mtg
- Representatives are available Monday through Friday 7:30am-7:00pm

KELLOGG HOTEL & CONFERENCE CENTER
MICHIGAN STATE UNIVERSITY
219 South Harrison Road
East Lansing, Michigan 48824
P: 517-432-4000 / F: 517-432-1014
WWW.KELLOGGCENTER.COM

*Some guidance systems may not recognize this address, a map may be found at this site: https://kelloggcenter.com/map/map-michigan-state-university-east-lansing-map-kellogg-hotel
#1 Communication Biohazard (Basic)
Cherie Petersen, BA

Laboratory professionals undeniably provide a critical role in healthcare, albeit not always recognized across patient care disciplines. Our highly specialized skills and expertise are the cornerstone for optimal patient care; however, our value can sometimes be sabotaged with poorly crafted communication. During this interactive session, participants will become familiar with commonly used laboratory phrases and communication that undermine our profession as well as learn strategies for enhancing professionalism and elevating the perception of laboratory professionals.

#2 Leptospirosis: A Potential Re-emerging Zoonotic Disease (Intermediate)
Dr. Rinosh Mani, DVM, PhD, DACVM

History, prevalence, epidemiology and diagnosis of leptospirosis

#3 CRISPR in Hematology (Intermediate)
Kristin Landis-Piwowar, PhD MLS(ASCP)CM

Persistent expression of fetal hemoglobin (HbF) beyond the neonatal period is a naturally-occurring condition that improves the pathology of sickle cell disease and β-thalassemia; it is associated with increased expression of γ-globin. CRISPR/Cas9-based therapy has the potential to upregulate γ-globin and HbF as a therapeutic strategy for β-globin disorders.

#4 Roadmap to becoming a "model" laboratory (Intermediate)
Susan M Smith, MT(ASCP)CM, MM

Discuss one laboratory's journey to quality by using process improvement tools and metrics to impact outcomes

#5 Nonalcoholic Fatty Liver Disease: Pathogenesis, Epidemiology, and Diagnosis (Basic)
Julie Hall MHS, MT(ASCP)

The prevalence of nonalcoholic fatty liver disease (NAFLD) in the U.S. has been on the rise since 1994, making it the most common liver disorder in Western industrialized countries. This session will discuss pathogenesis, epidemiology, and clinical manifestations of NAFLD.

#6 Diabetes and the Clinical Laboratory (Basic)
Ivorlyne Greene, PhD

Basic history of the use of laboratory tests in the management of diabetes, how laboratory tests align with American Diabetes Association guidelines, and how they relate to quality metrics.

#7 Molecular Diagnostics 101 (Basic)
Sheryl Alberta MT(ASCP)MB

Overview of what molecular testing is, methods used and utility in the clinical laboratory.

#8 Acute Flaccid Myelitis (Basic)
Marty Soehnlen, PhD, MPH, PHLD(ABB)

Acute flaccid myelitis (AFM) is a rare condition that has serious impact for patient’s central nervous system leading to muscle weakness, and in the most severe cases, respiratory failure. AFM diagnosis may be made through a combination of clinical and laboratory assays. Enteroviruses, Coxsackievirus, and West Nile are all associated with AFM.

#9 HIPAA in the age of Social Media (Intermediate)
Kyle B Riding, PhD, MLS(ASCP)CM

Social media has created numerous ways by which laboratory professionals can communicate about their day-to-day professional lives. However, laboratory professionals must be considerate of HIPAA regulations and employer guidelines when posting to social media. This session will review HIPAA regulations, relate them to social media, and use case studies from the news.

#10 Current Concepts in HIV Diagnostics (Basic)
Ivorlyne Greene, PhD

Review the importance of analytical sensitivity as it relates to patient seroconversion.

#11 MythBusters:Transfusion Edition (Intermediate)
Wendy Disbro, MLS(ASCP)CM SBBCM

MythBusters: Transfusion Edition is a comedic spin on some of our favorite blood bank conversations. Comments tech to tech and phone calls with nursing staff are loaded with opinions and misconceptions. This session looks to BUST THE MYTHS and fight them with scientific details.

#12 Moving and Integrating a Laboratory (Basic)
Jennifer Bergendahl, MT(ASCP)

Learn what is involved in moving a laboratory and integrating with other laboratories.
#13 The Evolution & Revolution of Clinical Microbiology Services (Advanced)
Nadine A. Fydryszewski, PhD, MLS(ASCP)CM
Discuss clinical microbiology innovations and the impact of technology advances, increased automation, digital imaging, artificial intelligence and the impact on the laboratory and quality of patient care.

#14 Let’s Be Blunt about Joint Infections (Intermediate)
Vera Dans-Strep, MS, MT(ASCP)
An overview of the epidemiology, microbiology, and diagnosis and treatment of joint infections.

#15 ANA Testing: Hep-2 IFA Versus Solid-Phase Assays (Intermediate)
Kathleen Hoag, PhD, MLS(ASCP)CM
This session will compare and contrast the traditional labor-intensive Hep-2 immunofluorescence assay (IFA) for detection and quantification of antinuclear antibodies (ANA) with newer automated solid-phase enzyme-immunoassays. Both the Hep-2 IFA and the solid-phase ANA have pros and cons which laboratorians need to know and communicate to physicians.

#16 Pathogen Reduction: A Proactive Approach to Improving Blood Product Safety in the Hospital Setting (Intermediate)
Joanne Meisner, MPH
This presentation will discuss bacterial contamination of platelets, currently available pathogen reduction technologies and pathogen reduction technologies in development.

#17 The evolving role of reticulated platelets (Intermediate)
Kyle B. Riding, PhD, MLS(ASCP)CM
The role of reticulated platelets in platelet disorders has been widely researched for a number of years. Advances in automation have allowed the clinical laboratory to provide this data in a more cost-efficient and timely manner. Understanding the impact of this parameter to clinical practice is critical to successful implementation.

#18 DCLS: Contributing Quality & Value in Delivery of Clinical Laboratory Services (Intermediate)
Nadine A. Fydryszewski, PhD, MLS(ASCP)CM
As interprofessional healthcare team members, the Doctor of Clinical Laboratory Science (DCLS) contributes by providing consultation to assure quality & value improvement in utilization of laboratory services. Consultation occurs in a variety of setting as described in the Diagnostics Consultation Model®. Case examples will demonstrate the value of the DCLS consult to quality patient care, safety and laboratory utilization.

#19 Addressing the Clinical Laboratory Workforce Shortage (Intermediate)
Susanne Norris Zanto, MPH, MLS(ASCP)CM,SMCM
Effects of the current shortage of qualified clinical laboratory professionals is being felt throughout the laboratory community. This session will describe recent data on the workforce shortage, reasons for the shortage, and the impact on laboratories, patient care, and educational facilities. Efforts to address this shortage by multiple organizations, including ASCLS, CCLW, ASCP, and APHIL, will be described and demonstrated.

#20 Acute Promyelocytic Leukemia (APL) (Basic)
Jordan Chester, MPH, MLS(ASCP)CM
Although acute promyelocytic leukemia (APL) is a rather rare subtype of acute myeloid leukemia, it must be diagnosed and treated quickly due to the complications that can arise from the disease. This lecture will focus on the diagnostic tests utilized in the laboratory to help diagnose and treat patients with APL.

#21 Considerations for Transfusing Solid Organ Transplant Recipients (Basic)
Sharon Ziemba, MSA, MLS(ASCP)CM,SBBCM
A review of the organ transplant process and the transfusion considerations for solid organ transplantation.

#22 Project Planning - Building a Specimen Tracking System (Basic)
Amy Mapili
When an initiative impacts multiple different laboratories, it can be challenging to ensure all parties are engaged and an appropriate solution is reached. Using a department-wide initiative as an example, Amy will share how her team built and carried out a project plan that successfully created and implemented a specimen tracking system in just over a year.
Kim Kibby, MSA, CIC, MT(ASCP)PBT, SH, SC<sup>CM</sup>
The parasites discussed will be the most common ones, including blood parasites, intestinal parasites (protozoa), helminths, macroscopic worms, several miscellaneous organisms, and a few specimens of source nervousness/mimics. The information will include the most common types of requests received in our clinical setting, including description of the different parasites in relation to the types of specimens received, life cycles of the major groups of parasites, and the presenting signs and symptoms with related travel history of patients.

#24 Managing Pre-analytical Variables in Venipuncture (Intermediate)
Beth Warning, MS, MLS(ASCP)<sup>CM</sup>
From physician order, to venous collection, to sample processing, situations will be identified to prevent pre-analytical errors with the end goal of improving specimen quality.

#25 Understanding Scattergrams (Intermediate)
Jessica Scopis, MLS(ASCP)<sup>CM</sup>
This lecture will review the basic fluidics, optics, and data analysis of a flow cytometer. It will review and interpret scattergrams from hematology analyzers and flow cytometers to troubleshoot abnormal flags and interpret flow results.

#26 Innate Lymphoid Cells: New Players in Immune Defense (Intermediate)
Lynne Williams, PhD, MT(ASCP)
Innate lymphoid cells (ILCs) are recently recognized components of the lymphoid lineage that play an important role in immune protection. Surprisingly, they are not contributors to innate immunity (as are T and B lymphocytes), but rather are active players in the innate immune defense system. This presentation will review the current understanding of these important immune cells.

#27 The vaginal microbiome in health and disease (Intermediate)
Lynne Shetron-Rama, PhD, MT(ASCP)
This presentation will be a summary of the current literature about the vaginal microbiome in health and disease. Information about the role in pregnancy and early termination of pregnancy as well as what is normal and how we define this will be given.

#28 Security Awareness and De-Escalation in Healthcare (Basic)
Bradley Estep, CHS (Certified Healthcare Security Supervisor-IAHSS)
This program is focused on recognizing pre-incident indicators for violence in the healthcare setting as well as tactics for verbal de-escalation.

#29 What is it and why is it ordered? An overview of common send out tests (Intermediate)
Beth Warning, MS, MLS(ASCP)<sup>CM</sup>
We see the orders and look up the sample requirements, but do we understand the purpose of the test headed to the reference lab? This session will identify several common send out tests, their purpose, and the collection recommendations.

#30 Seasonal influenza: why does it recur every year and why can't we eliminate it? (Intermediate)
Richard Van Enk, PhD, CIC, FSHEA
Influenza is one of the oldest known human infectious diseases and causes significant morbidity and mortality every year, yet we still don't seem to be able to diagnose, treat or prevent it very well. We will discuss why influenza has been able to avoid our current efforts and mention some new approaches that may have promise.

#31 Resume Writing 101: Highlighting Yourself to Get Your Foot in the Door (Basic)
Meighan Sharp, MLS(ASCP)<sup>CM</sup>
Everyone needs a good resume on hand. Whether you are a new graduate looking for that first job, or a seasoned veteran just looking to polish what you already have on file, this presentation will give you some useful tools and tips to get a call back for that interview!

#32 Hematology Case Studies (Intermediate)
Sarah Drevon, MT(ASCP)
Sarah Lewis, MT(ASCP)
In this session, a review of interesting and rare Hematology laboratory cases will be presented, including a detailed morphological identification review.

#33 Succeeding with Specialist Certifications (Basic)
Ashley Castle, MLS(ASCP)<sup>SM</sup>SM<sup>CM</sup>
Nancy Raynal, MT(ASCP)SHCM<sup>CM</sup>
Sarah Pelton, MS, MLS(ASCP)<sup>SM</sup>SBB<sup>CM</sup>
Stephanie K. Rink, MS, MLS(ASCP)<sup>CM</sup>SC<sup>CM</sup>
In this session, panelists will share their experiences and tips for success when it comes to preparing for and taking specialist certification exams, as well as discuss the various opportunities and rewards specialist certifications can provide.
#34 Syphilis Diagnostics: Challenges, Algorithms and Needs (Intermediate)
Susanne Norris Zanto, MPH, MLS(ASCP)SM
Although syphilis was first recognized in the 1500s, and the causative organism, Treponema pallidum, was first identified in 1905, this infection remains a major public health concern. Efforts to eliminate this disease are falling short, and the current state of laboratory diagnostics is a contributing factor. This session will outline the current state of syphilis in the U.S., discuss the challenge in syphilis diagnostics and describe current syphilis testing algorithms. In addition, new testing methods and research needs will be addressed.

#35 Blood Bank Case Studies: A Refresher (Intermediate)
Kayla Waidler, MLS(ASCP)SM
Clinical case studies to test and refresh the attendee's blood banking skills. Also includes tips and tricks on how to efficiently find antigen negative units.

#36 Mixing Studies: Coagulation’s Hidden Gem (Basic)
Morgan Stuart, MLS(ASCP)CM
Mixing studies are an important tool for any coagulation lab; in one hour mixing studies can determine if a prolonged PTT or PT is due to a factor deficiency, specific, or non-specific factor inhibitor. Here we will explore the steps to a mixing study and the results’ clinical importance.

#38 National Legislative Symposium Update (Basic)
Linda Goossen, Ph.D., MT(ASCP)
This session will introduce attendees to the ASCLS Government Affairs Committee (GAC) and the annual national legislative symposium. Current federal legislative and regulatory activities that impact clinical laboratories will be presented.

#39 Next Generation Sequencing (NGS) As A Comprehensive Clinical Genetic Test (Intermediate)
Marwan K. Tayeh, PhD, FACMG
Next generation sequencing (NGS), or massive-parallel sequencing, includes a variety of technologies that permit rapid sequencing of large numbers of genomic DNA segments, up to entire genome. Therefore, NGS is the most cost effective and rapid way to perform comprehensive clinical genetic testing (Whole Genome, Whole exome, and Disease-Targeted panels).

#40 Hematology in the Elderly (Basic)
Roslyn McQueen, Ph.D, MT(ASCP)SH, CCRP
Individuals aged 80 years or above is predicted to almost triple between 2011 and 2050. It is well known that the hematopoietic system is affected by aging, and these effects become particularly notable after age 65. This presentation will provide the latest insight on the impact of aging in hematology.

#41 Serum Vs. Plasma (Basic)
Jean Tenuta, MS, MBA, MT(ASCP)DLM, SLS; CQA(ASQ)

#42 Antimicrobial Resistance: Mechanisms of Action and Emerging Threats (Intermediate)
Christina R. Lim, MS, MLS(ASCP)SM
Review of mechanisms of antimicrobial resistance and factors that contribute to the development of multi-drug resistance, with emphasis on global emerging threats.

#43 TBD
Steven Pipe, MD
#44 The Impact of Laboratory Medicine on Caring for Transgender Patients (Basic)
Gabrielle Winston-McPherson, PhD
The focus of this talk will be on health disparities that impact the transgender community in addition to the role of the laboratory in addressing these inequities and improving care for transgender patients.

#45 Growing into your next job: building a career of satisfaction and success (Intermediate)
Kathy Doig, PhD, MLS(ASCP)™ SH™
Your career should be more than moving from one job to the next. What you learn in each job should prepare you for the next one; helping you choose jobs that are progressively more satisfying. In this interactive session, you will explore ways to grow into your next jobs and build a satisfying career within your profession.

#46 Designer Drugs - Laboratory Testing Challenges (Intermediate)
Ben Kuslikis, PhD
With 150 deaths per day due to opioids, the government is spending a lot of time, effort and money in addressing this epidemic. Drug testing of patients and seized drug material is an important part of addressing this problem. Delineating drug use patterns is of benefit to hospital personnel, but also to law enforcement. This presentation will focus on the science needed to test for both licit and designer drugs as well as challenges in the interpretation of results.

#47 Quality/Process Improvement Case Study (Basic)
Jill Blevins, Tracie Rusicka, MT(ASCP)
In this session, we will discuss initiating and implementing a process improvement plan to improve the quality of patient care within the laboratory.

#48 Haplo-identical Hematopoietic Transplants (Intermediate)
John A. Gerlach, PhD, D(ABHI)
The shift from identical matched to haplo-identical hematopoietic transplants allows a higher likelihood of finding a donor without compromising outcomes.

#49 Hepatitis A: How an old foe revisited Michigan to cause a widespread and prolonged outbreak. (Basic)
Diana K. Riner, PhD
Hepatitis A virus (HAV) accounts for most acute viral hepatitis cases worldwide. Although it is a self-limited liver disease, it occasionally progresses to severe, life threatening illness. Recently, HAV disease transmission patterns have changed from a disease mainly spread by contaminated food or water to being spread among IV-drug users and the homeless. This talk will focus on Michigan’s ongoing HAV outbreak that began in 2016.

#50 Darzalex Challenges in Compatibility Testing (Intermediate)
Sheri Hugan, MLS(ASCP)™ SH™
Darzalex is a common treatment for patients with multiple myeloma and causes testing interference with anti-human globulin tests. Selecting appropriate blood for patients on Darzalex will be demonstrated through case studies.

#51 The Significance of Various Granulocytic Inclusions (Basic)
Kristle Haberichter, DO, FCAP
Recognition of various granulocytic inclusions and their clinical significance is essential to providing high quality care to patients. This session will review common and uncommon granulocytic inclusions, including certain infectious etiologies and rare inherited disorders. Newdly described and under recognized green neutrophilic inclusions and their implications will be discussed.
# SCHEDULE
## WEDNESDAY APRIL 10

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<td>#1 Opening Keynote (G) Communication Biohazard</td>
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<td>1245 - 1345</td>
<td>#2 Leptospirosis: A Potential Re-emerging Zoonotic Disease.</td>
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<td>#3 A New Era in Treating Hematologic Disease: CRISPR-Cas9 Genome Editing</td>
<td>H/MO</td>
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<td>#4 Roadmap to becoming a &quot;model&quot; laboratory</td>
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<td>#5 Nonalcoholic Fatty Liver Disease: Pathogenesis, Epidemiology, and Diagnosis</td>
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<td>1400 - 1500</td>
<td>#6 Diabetes and the Clinical Laboratory</td>
<td>C/IM</td>
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<td>#7 Molecular Diagnostics 101</td>
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<td>#8 Acute Flaccid Myelitis</td>
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<td>#9 HIPAA in the age of Social Media</td>
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<tr>
<td>1500</td>
<td>REFRESHMENT &amp; NETWORKING BREAK</td>
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<tr>
<td>1615 - 1715</td>
<td>#10 Current Concepts in HIV Diagnostics</td>
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<td>#11 MythBusters: Transfusion Edition</td>
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<td>#12 Moving and Integrating a Laboratory</td>
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<td>#13 The Evolution &amp; Revolution of Clinical Microbiology Services</td>
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<tr>
<td>1730 - 1830</td>
<td>#14 Let's Be Blunt about Joint Infections</td>
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<td>#15 ANA Testing: Hep-2 IFA Versus Solid-Phase Assays</td>
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<td>#16 Pathogen Reduction: A Proactive Approach to Improving Blood Product Safety in the Hospital Setting</td>
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<td>#17 The evolving role of reticulated platelets</td>
<td>CG</td>
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<tr>
<td>1830 - 2000</td>
<td>#18 Lifetime Achievement Dinner</td>
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<td>Tickets Required: $30.00</td>
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<tr>
<td></td>
<td>DCLS and the advancement of the profession</td>
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## THURSDAY APRIL 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Description</th>
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<tbody>
<tr>
<td>0730 - 1600</td>
<td>REGISTRATION</td>
<td></td>
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<tr>
<td>0745 - 1400</td>
<td>EXHIBITS OPEN</td>
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<tr>
<td>0815 - 0915</td>
<td>#19 General Session</td>
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<tr>
<td>0930 - 1030</td>
<td>Addressing the Clinical Laboratory Workforce Shortage</td>
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<td>#20 Acute Promyelocytic Leukemia (APL)</td>
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<td>#21 Considerations for Transfusing Solid Organ Transplant Recipients</td>
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<td>#22 Project Planning - Building a Specimen Tracking System</td>
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<tr>
<td>Time</td>
<td>BEVERAGE BREAK WITH EXHIBITORS</td>
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<td>1115</td>
<td>#24 Managing Pre-analytical Variables in Venipuncture</td>
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<td>#25 Understanding Scatter Grams</td>
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<td>#26 Innate Lymphoid Cells: New Players in Immune Defense</td>
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<td>#27 The vaginal microbiome in health and disease</td>
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<thead>
<tr>
<th>Time</th>
<th>#28 Lunch &amp; Learn</th>
<th>STUDENT FORUM LUNCH</th>
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<tbody>
<tr>
<td>1230</td>
<td>Security Awareness and De-Escalation in Healthcare</td>
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<td>#29 What is it and why is it ordered? An overview of common send out tests</td>
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<td>#30 Seasonal influenza: why does it recur every year and why can't we eliminate it?</td>
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<td>#31 Resume Writing 101: Highlighting Yourself to Get Your Foot in the Door</td>
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<td>#32 Hematology Case Studies</td>
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<td>1515</td>
<td>#33 Succeeding with Specialist Certifications</td>
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<td>#34 Syphilis Diagnostics: Challenges, Algorithms and Needs</td>
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<td>#35 Blood Bank Case Studies: A Refresher</td>
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<td>#36 Mixing Studies: Coagulation's Hidden Gem</td>
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<thead>
<tr>
<th>Time</th>
<th>CELEBRATION OF THE PROFESSION AWARDS &amp; RECEPTION</th>
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<tbody>
<tr>
<td>1600</td>
<td><em>Posters must be taken home by students (winners should be put near registration for Friday morning)</em></td>
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**SCHEDULE FRIDAY APRIL 12**

<table>
<thead>
<tr>
<th>Time</th>
<th>REGISTRATION</th>
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<tbody>
<tr>
<td>0730</td>
<td>MEMBERSHIP MEETING &amp; BREAKFAST</td>
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<tr>
<td>Note: Vote by Consensus of ASCLS members for Delegates</td>
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<thead>
<tr>
<th>Time</th>
<th>JOB FAIR</th>
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<tbody>
<tr>
<td>0900</td>
<td>#37 Potential Biotin Interference in Immunoassays</td>
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<td>#38 National Legislative Symposium Update</td>
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<td>#39 Next Generation Sequencing (NGS) As A Comprehensive Clinical Genetic Test</td>
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<td>#40 Hematology in the Elderly</td>
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<thead>
<tr>
<th>Time</th>
<th>#45 LUNCH &amp; LEARN</th>
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<tbody>
<tr>
<td>1045</td>
<td>#41 Serum Vs. Plasma</td>
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<td>#42 Antimicrobial Resistance: Mechanisms of Action and Emerging Threats</td>
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<td>#43 TBD</td>
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<td>#44 The Impact of Laboratory Medicine on Caring for Transgender Patients</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>#45 LUNCH &amp; LEARN</th>
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<tbody>
<tr>
<td>1200</td>
<td>Growing into your next job: building a career of satisfaction and success</td>
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<tr>
<th>Time</th>
<th>#46 Designer Drugs - Laboratory Testing Challenges</th>
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<tbody>
<tr>
<td></td>
<td>#47 Quality/Process Improvement Case Study</td>
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<td>#48 Haplo-identical Hematopoietic Transplants</td>
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<tr>
<th>Time</th>
<th>#49 Hepatitis A: How an old foe revisited Michigan to cause a widespread and prolonged outbreak</th>
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<tr>
<td></td>
<td>#50 Darzalex Challenges in Compatibility Testing</td>
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<tr>
<td></td>
<td>#51 The Significance of Various Granulocytic Inclusions</td>
</tr>
</tbody>
</table>
REGISTRATION

INFORMATION

Meeting attendees are strongly encouraged to pre-register by March 18th to receive the ‘Early Bird’ registration rate. Non-Members: Join ASCLS prior to the meeting to receive discounted member rates to the meeting. Join ASCLS online at: https://www.ascls.org/membership/join

Registration will only be accepted online. The link to the registration page is available at: http://www.ascls-michigan.org/2019-meeting/

ON-SITE REGISTRATION

On site registration is located in the South Lobby of the Kellogg Center in East Lansing, MI during all three days of the meeting.

DESK HOURS

<table>
<thead>
<tr>
<th>Day</th>
<th>Hour</th>
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<tbody>
<tr>
<td>April 10</td>
<td>Wednesday</td>
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<tr>
<td>April 11</td>
<td>Thursday</td>
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<tr>
<td>April 12</td>
<td>Friday</td>
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ENJOY THE ASCLS-MICHIGAN ANNUAL MEETING!