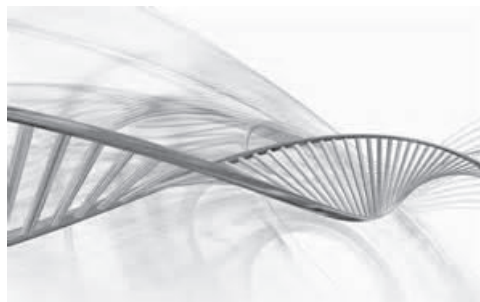


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Connecting the Chains with ASCLS – Michigan!



**American Society for Clinical
Laboratory Science - Michigan
Annual Meeting & Exhibits**

**April 15 - 17, 2015
The Inn at St. John's • Plymouth, MI**

Forwarding Service Requested

**American Society for Clinical
Laboratory Science-Michigan
c/o Classic Events, Inc
5395 North Shore Drive
Eau Claire, WI 54703**



American Society for Clinical Laboratory Science - Michigan

Presents

Connecting the Chains with ASCLS-Michigan!

April 15 - 17 • The Inn at St. John's • Plymouth, Michigan

Where can you enhance and refresh your laboratory knowledge with over 65 educational sessions, connect with over 30 laboratory industry leading vendors, and network with over 500 laboratory professionals? We will be connecting these chains during the ASCLS-Michigan 2015 Spring Conference. Join ASCLS-Michigan at the Inn at St. John's in Plymouth, Michigan for our conference titled, "Connecting the Chains". In addition to these offerings, attendees have an opportunity to learn about the ASCLS-Michigan society happenings at the Membership Breakfast and let loose with colleagues at our alumni party. We look forward to having you join us and become another link in the chain!



Kristen Deloney

ASCLS-Michigan Annual Meeting General Chair

General Information

Pre Registration

Meeting attendees are strongly encouraged to pre-register by April 1st to receive the discounted registration rate. Please see pages 11 & 12 for instructions.

On Site Registration

On site registration is located in Garden Gallery foyer of The Inn at St. John's Conference Center in Plymouth, MI.

Registration Desk Hours

Wednesday, April 15th	7:00 am to 3:30 pm
Thursday, April 16th	7:00 am to 4:30 pm
Friday, April 17th	7:30 am to 3:00 pm

Special Registration Information

Non-members: SAVE MONEY by joining the American Society for Clinical Laboratory Science. If you join prior to the meeting, you will receive 15 months membership for the price of 12 months AND you can take advantage of discounted registration rates, effectively making your ASCLS membership FREE!

ASCLS also offers group discounts when 10 or more people sign up together. Visit <http://www.ascls.org/join> and select ASCLS Membership Packages for more details. Download and print a Membership Application Form from the ASCLS web site:

<http://www.ascls.org/join-ascls/join>

Send completed form and **check payable to ASCLS** along with your 2015 ASCLS-Michigan meeting registration form and check to:

ASCLS-Michigan c/o Classic Events, Inc.
5395 North Shore Drive
Eau Claire, WI 54703

Badges

Registration identification badges must be worn for admission to all sessions, exhibits, meetings, workshops and social functions. Replacement badges may be obtained at the registration desk for a fee of \$5.00.

Exhibit Hours

Wednesday April 15th	2:00 pm - 4:15 pm
BEAM Dessert Reception	2:00 pm - 3:15 pm
Thursday April 16th	10:30 am - 1:30 pm
Beverage Break	10:30 am - 11:15 am
Lunch with Exhibitors	12:15 pm - 1:30 pm

Daily Prize Drawings!

Visit the exhibitors for a chance to win **free** registration for the 2016 ASCLS-Michigan Meeting. Drawings will be held in the exhibit hall on Wednesday and Thursday.

Continuing Education Credit

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) Certification Maintenance Program and all states. The ASCLS-Michigan Annual Meeting offers a wide range of educational opportunities to meet your continuing education requirements. Over 65 hours of quality P.A.C.E.[®] approved programming will be offered.

Attendees will self-prepare their P.A.C.E.[®] Certificate of Attendance after the meeting by using the online ASCLS CE organizer program. Instructions will be included in the registration packet.

Poster Session

The Student Poster Display will be on site during the entire convention! Enjoy this opportunity to view the new and interesting scientific information presented by our future laboratory professionals.

Phlebotomy Workshop

Four sessions focusing on Phlebotomy will be held on Friday, April 17 with a special registration rate of \$80, which includes lunch. See pages 4 and 9 for speaker and session details. See page 11 to register.

General Objectives of the Meeting

Through participation in the ASCLS-Michigan Annual Meeting, attendees will be able to:

1. Integrate the latest technologies into clinical laboratory practice.
2. Use management techniques and strategies to meet the challenges of operating a laboratory.
3. Correlate human pathophysiology and clinical laboratory data with disease states.
4. Network with peers and learn from the experiences of other laboratory professionals.



Special Events

Wednesday, April 15th

Keynote Speaker 8:00 - 9:00 am Farogh Nazari, PhD, MBA, MLS(ASCP)^{CM}

Dr. Farogh Nazari has over 36 years of laboratory medicine experience. Nazari received his education from University of Utah, University of Texas, Seton Hall University, and University of Michigan. He is an active member of ASCLS, on local, regional, and national levels. He lectures routinely at national and international conferences on a variety of topics. Dr. Nazari managed several laboratories prior to joining Siemens and is currently Senior Manager for Global Continuing Education for Siemens Healthcare Diagnostics.



Lunch Presentation 11:45 am - 12:45 pm Karen Poster-Verrill, MT(ASCP)

Karen Poster-Verrill has been a clinical laboratory scientist for almost 30 years starting her career at Hurley Medical Center in Flint, MI. For six of those years she worked as a research scientist in the biochemistry department at MSU studying protein structure. Outside the traditional laboratory she has worked for two years with the Peace Corps working with HIV patients at the University Hospital of West Indies in Jamaica. In 2006, she applied to Doctors without Borders and started working immediately in a Multi Drug Resistant TB project in Uzbekistan, followed by projects in Kenya and Ukraine. Today she is here to share her experiences working with the organization Doctors without Borders.



Menu: Roast turkey sandwich served on multi-grain bread with lettuce, oven-roasted tomatoes, sandwich condiments, homemade potato salad, fresh baked cookies, freshly brewed coffee and both hot & iced tea.

\$25, Ticket required

Lunch available through pre-registration ONLY.

Purchase lunch all three days and save \$10. See pages 11 & 12.

BEAM Reception with Exhibitors 2:00 - 3:15 pm

The Biomedical Exhibitors Association of Michigan hosts this complimentary reception to give you a leisurely opportunity to visit booths and discover the latest in technology while enjoying their hospitality. We invite you to join us and visit with the vendors while enjoying chef's beautiful assortment of desserts.

All attendees are invited. Badges are required.

Please RSVP on the Registration Form.

First Year Professionals Panel 2:30 - 3:30 pm

Newcomer's Reception: Students, New Members and First-Timer's are cordially invited to meet with the ASCLS-MI Board of Directors. Explore and maximize your potential as an ASCLS and ASCLS-MI member!

Thursday, April 16th

Welcome Breakfast & Membership Meeting 8:00 - 9:15 am

Attend the membership meeting, be informed on happenings in our organization and network with colleagues all while enjoying a complimentary continental breakfast.

Executive Continental Breakfast: Enjoy a traditional continental breakfast featuring fresh fruit, house baked pastries, freshly brewed coffee & herbal tea.

Complimentary. RSVP and Ticket required.

Please RSVP on the Registration Form.

Lunch with Exhibitors 12:15 - 1:30 pm

Come and view the exhibits and interact with vendors while enjoying lunch. This is an excellent opportunity to ask questions and spend individual time with your favorite exhibitor in a relaxed setting.

Menu: Chicken-fennel-pancetta fricassee of gourgere bread bowl and shaved fennel slaw. Served with season's best mixed greens, sliced cucumber, baby tomato, white balsamic-sundried tomato vinaigrette, dinner rolls, freshly brewed coffee & herbal tea.

\$25, Ticket required

Lunch available through pre-registration ONLY.

Purchase lunch all three days and save \$10. See pages 11 & 12.

Student Forum Lunch 12:15 - 1:30 pm

The student forum will offer students a light lunch along with discussions led by the current student representative on issues of importance to students in the profession.

NOTE: All students are invited to attend.

\$12, RSVP and Ticket required

Lunch available through pre-registration ONLY.

Please RSVP on the Registration Form.

ASCLS - Michigan Awards Presentations 5:15 - 6:15 pm

The following honors will be presented: ASCLS-Michigan Member of the Year, Donna Duberg Mentorship, Key to the Future, Pam Agren Inspiration, 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. See the December 2014 issue of *Newslinks* for details on any of these awards. Plan to attend and cheer the accomplishments of your peers!

All Schools Alumni Party 6:30 - 8:30 pm

Join educators, alumni and friends from all schools and represent YOUR school while enjoying an evening of camaraderie, fun and refreshments. Open to all meeting guests, the event will feature a buffet style selection of mouth-watering appetizers that are sure to please along with a silent auction to benefit the Student Forum Scholarship Fund, as well as a cash bar and raffle prizes. **Must be present to win.**

All attendees are invited. Badges are required.

Please RSVP on the Registration Form.



Friday, April 17th

Keynote Speaker 8:00 - 9:00 am
Ginger Weeden, MLS(ASCP)^{CM}



Ginger Weeden, MLS(ASCP)^{CM}, is an MLS and US marketing manager for Bio-Rad Laboratories who has navigated the leadership waters of laboratory management and Corporate America. She is proud to be a long time member of ASCLS and credits her success to early leadership opportunities in the organization.

Phlebotomy Workshop 9:15 am - 3:30 pm
Dennis Ernst, MT(ASCP)



ASCLS-Michigan is pleased to include a workshop on phlebotomy at this year's convention. Internationally recognized author and phlebotomy expert Dennis J. Ernst, MT(ASCP) will be presenting on a number of phlebotomy-related topics.

Dennis Ernst, is the Executive Director of the Center for Phlebotomy Education in Corydon, Indiana. Besides being a highly recruited international lecturer, he has authored over 50 articles, two textbooks and a desk reference on phlebotomy.

He chairs the CLSI working groups that write standards for specimen collection and is the editor of the Phlebotomy Today family of newsletters which is read monthly by over 16,000 subscribers worldwide.

Lunch 11:45 am - 1:00 pm

Menu: White wine-braised chicken breast. Served with quinoa-fresh herb pilaf, grilled squash stack and charred tomato cream sauce. Includes tomato-basil bisque, basil crème, rolls, and freshly brewed coffee & herbal tea. Dessert of warm apple raisin rum crisp.

\$25, Ticket required

Lunch available through pre-registration ONLY.

Purchase lunch all three days and save \$10. See pages 11 & 12.

Lifetime Achievement Award

The ASCLS-Michigan Lifetime Achievement Award will be presented during the luncheon. 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.

ASCLS - Michigan Governance Sessions

Wednesday, April 15th, 4:30 - 6:00 pm
Board of Directors Meeting

Thursday, April 16th, 8:00 - 9:15 am
Membership Meeting and
Reception with Complimentary Breakfast
All members are encouraged to attend!

Special 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 towards the 66th Annual ASCLS-Michigan Meeting

AB Sciex
Abbott Diagnostics
American Proficiency Institute
ARUP Labs
Bio-Rad Laboratories
BD Diagnostics
Center for Phlebotomy Education
Cepheid
Diagnostics Stago
Global Focus Marketing
Greiner Bio-One
Labsco
Mayo Medical Laboratories
Michigan State University
MLabs
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Ortho Clinical Diagnostics
Sarstedt, Inc.
Siemens Healthcare Diagnostics
Sysmex
Trinity Biotech
University of Michigan
Werfen USA, Inc.

Without the contributions of the above organizations, we would not be able to offer this comprehensive, quality program

Thank You to the 2015 ASCLS-Michigan Annual Meeting Planning Committee

The work of the following individuals who volunteered their time and effort to make this meeting possible for the betterment of everyone in our profession is appreciated.

Kristen Deloney, General Chairperson
Carl Byington
Ninive Costa
Jean Garza
Linda Goossen
Jonathan Gusilatar
Jon Ko
Carey Loveland
Bekah Martin
Kristina Martin
Roger Paxton
Stephanie Rink
Nick Wesener



Meeting Accommodations

The Inn at St. John's
44045 Five Mile Road
Plymouth MI 48170



Reservations:
(734) 414-0600

Web site:
www.stjohnsgolfconference.com

Room Rates: Single/Double: \$129 plus tax*
Standard Triple: \$139 plus tax*
Standard Quad: \$139 plus tax*
(\$20 extra for each additional person)

* State and local sales tax (6%) as well as 4.5% occupancy tax is not included in the above rates.

You must mention ASCLS-Michigan and reserve by March 31, 2015 to receive the discounted rate while these rooms are available.

Parking: The Inn at St. John's Conference Center is pleased to offer complimentary parking.

Educational Program

NOTE: One hour of P.A.C.E.[®] credit is equal to 1 contact hour.

- (B) Basic level;** no prior knowledge necessary
- (I) Intermediate level;** some prior knowledge required
- (A) Advanced level;** extensive prior knowledge needed

Wednesday, April 15th

#1 Leadership: Is there an App for It? (I) *Farogh Nazari, PhD, MBA, MLS(ASCP)^{CM}* - Management and leadership are often used interchangeably. However, the fact is that a title does not automatically make anyone a leader. This presentation discusses the basic characteristics of leadership and how we as laboratory professionals must show leadership to claim our rightful place at the medical decision making table.

#2 Complement: History, Cases & Perspectives (I) *Jeffery Warren, MD* - This presentation will provide an overview of the complement system. There will be a particular emphasis on the 100 year history and three cases that illustrate disorders of complement.

#3 Rapid Rewards: Identification From Positive Blood Cultures (I) *Carol Young, MT(ASCP)* - Rapid identification from blood culture is important to overall patient outcome. We will discuss traditional methods as well as molecular techniques and how we can partner with our Antimicrobial Stewardship teams. This session will include implementation strategies, workflow adjustments and technical and operational challenges.

#4 Demystifying Lupus Anticoagulant: A Wet Workshop (I) *Claudia E Escobar, MT(ASCP)SH* - Begin with a review of basic coagulation as a background in order to build the discussion of lupus anticoagulant (LA). Simplify the clinical and technical

aspects of LA to build the laboratorians' confidence and knowledge. Emphasize the importance of the laboratory's ability to test for and detect the presences of LA for patients and physicians.

#5 Blood Bank Case Studies (I) *Kelly Anderson, MLS(ASCP)^{CM}SBB^{CM}*, *Michelle Herrst, MT(ASCP)*, & *Sheri Hagan, MLS(ASCP)^{CM}SBB^{CM}* - This session will present three different case studies with a Blood Bank perspective. One case study will review intrauterine transfusion in a patient with multiple antibodies, including a process to select appropriate blood for the fetus. Another case study will describe the changing blood type and development of passive antibody in an ABO incompatible bone marrow transplant. The third case study will present the problems around issuing Group A emergency plasma in the computer system.

#6 Reducing Send-out Costs to Meet the Challenge of Increased Testing Volume Under the Affordable Care Act (I) *Kimberly Russell, MBA, MLS(ASCP)^{CM}SBB^{CM}* - Laboratory testing cost is anticipated to increase as a consequence of the Affordable Care Act. Several cost-containment plans have been initiated but with limited access. Two solutions proposed for the cost-containment of laboratory tests are:

- a) informatics structure to support utilization management;
- b) organization of the physical education program.

#7 Therapeutic Drug Monitoring Using Mass Spectrometry (B) *Matt Clabaugh, NRCC* - This session will include an introduction to LC-MS/MS (Liquid chromatography-tandem mass spectrometry) for the Clinical Lab, encompassing both the technology and application. The advantages of its use as a direct analyte measurement for increased accuracy. The ability of LC-MS/MS to expand the laboratories capabilities and reduce high value send out tests.

#8 Screening for Carriers of Carbapenemase Resistant Organisms (I) *Barbara Robinson - Dunn, PhD, D(ABMM), FIDSA* - Since 1996, carbapenemase-producing Gram negative bacteria have spread world-wide. There are few therapy options for infected patients and mortality is high if the infection is in the bloodstream. While some infections are acquired after admission to the hospital, other patients carry these organisms as part of their normal flora. Accurate screening of persons being admitted to the hospital is necessary to decrease transmission of these deadly pathogens.

#9 Clinical Perspectives on Irradiated Blood Products (I) *Shih-Hon (Sean) Li, MD, PhD* - Blood product recipients are susceptible to graft-versus-host-disease (GVHD) from donor leukocyte engraftment. This risk is reduced through leukofiltration and irradiation. However, irradiation reduces the circulatory half-life of product cells. In this presentation, we will review donor leukocyte GVHD, indications for blood product irradiation, and discuss selected patients cases.

#10 Improving Blood Specimen Quality & Patient Care (I) *Barbara Iscrupe, MT(ASCP)PBT* - The current tools and methods for collecting blood specimens are producing high rates of poor quality specimens in critical patient areas (EDs, CCUs) with alarming costs and consequences. The current practices, pitfalls, and data will be reviewed along with best practices to improve specimen quality, patient outcomes and satisfaction, and costs.



#11 Doctors Without Borders (B) *Karen Poster-Verrill, MT(ASCP)* - This session will provide information on the medical humanitarian aid organization Medecins Sans Frontiers (Doctors Without Borders). Included will be information on the history of MSF, how it works, where it works and types of medical projects. Examples of projects involving clinical laboratory scientists working in the field will be given, along with personal experiences related to working with this organization.

#12 Interferences in Chemistry & Immunoassay Tests (B) *Don Giacherio, PhD* - This session will use a case based approach to illustrate the types of interferences that can be commonly encountered in the automated chemistry lab. This will include examples of interferences in common chemistry assays such as electrolytes, creatinine, Hemoglobin A1C, and therapeutic drug monitoring. In addition, examples of interferences in immunoassays will be discussed, along with strategies for dealing with them.

#13 Clinical, Infection Control & Laboratory Aspects of Ebola Virus Disease (I) *Duane Newton, PhD, D(ABMM)* - The speaker will discuss the current status of the Ebola virus outbreak in West Africa and describe the activities undertaken by the University of Michigan Health System to prepare for care of patients with Ebola virus disease.

#14 Epigenetic Complications in Myeloproliferative Neoplasms (I) *Kristin Landis - Piwowar, PhD, MLS(ASCP)^{CM}* - When mutations in the JAK-STAT pathway were found in patients with myeloproliferative neoplasms (MPN), tyrosine kinase activation appeared to be the principal driver of MPN pathogenesis. However, mutations in molecules that modify the epigenome may occur prior to JAK2 mutations contributing to leukemogenesis. This session will discuss the pathophysiology and clinical relevance of epigenetics in MPN.

#15 Hospital Billing Basics (I) *David Golden* - Provide a basic overview of a hospital billing process including charge capture, claims processing and patient transactions. Discuss the purpose of medical record documentation and various forms and documents used in the medical record. Learn the importance of accounts receivable management and reports utilized.

#16 Re-emerging Viral Infections in Patients with Sepsis: Clinical Implications (B) *Lindsay Hengsbach, MS, MB(ASCP)^{CM}* - Discussion on data related to the prognosis of septic patients when sepsis reaches a point that previously sequestered viral infections held at bay by the immune system begin to re-emerge.

#17 Progression of Renal Disease in Dialysis Patients (B) *Deanna Denny, RD* - During this session we will take a dynamic look at kidney disease that includes reviewing the role of the kidneys, causes of kidney disease, a look at treatment options such as dialysis and finally explore dialysis laboratory outcomes in relation to dietary recommendations.

#18 Microbiology - A Review of Direct Gram Studies (B) *Jeanne Stoddard, MHS, MT(ASCP)* - This microbiology session is designed as a review of the basic principles of direct Gram stain reading. It will focus on proper smear preparation and Gram staining microscopic enumeration and quantitation of organisms and cells, and direct Gram stain bacterial morphology characteristic recognition.

#19 Demystifying Lupus Anticoagulant (I) *Steven Pipe, MD* - This session will review the pathophysiology of lupus anticoagulants, laboratory assays and approach to their interpretation, consensus recommendations for diagnostic criteria, clinical presentations including anti-phospholipid antibody syndrome and complications.

#20 The ABC's of Blood Components (I) *Theresa Downs, MT(ASCP)SBB, CQA(ASQ)* - Have you ever wondered about all the different kinds of blood components - how they were collected and processed, solutions added to the bags or their use in transfusion? This lecture will focus on blood components in the hospital setting, reviewing the various types of blood components, their characteristics and uses.

#21 CLIA & Individualized Quality Control Plan (IQCP) (I) *Michelle Roepke, MT(ASCP)* - The Centers for Medicare and Medicaid Services (CMS) is implementing Individualized Quality Control Plan (IQCP) as a new quality control option based on risk management for CLIA laboratories performing nonwaived testing. This presentation will give a brief overview of IQCP.

Thursday, April 16th

#22 The Nitty Gritty of Capillary Electrophoresis (I) *David Keren, MD* - The session will demonstrate advantages of capillary electrophoresis to detect clinically significant serum protein abnormalities. A major focus will be detection of monoclonal (M) proteins and causes of false positive and false negative results. Several illustrative cases will be shown with the audience participating in the interpretation.

#23 Health & the Human Microbiome (I) *Rachel Morris, PhD, MLT(ASCP)* - Medical microbiology is focused on detecting pathogens, but our understanding of the role microbes play in healthy individuals has expanded rapidly over the past decade. This session will address these advances in our understanding of the human microbiome and their possible impact on clinical practice.

#24 RBC Morphology Review (B) *Kristin Landis-Piwowar, PhD, MLS(ASCP)^{CM}* - The circulating erythrocyte mass represents an oxygen transport organ. When erythrocytes deviate from the optimal bi-concave disc shape, tissue oxygenation is disrupted. This session will discuss the bio-chemical and physical processes that contribute to variation in erythrocyte shapes and inclusions and will include case studies for discussion.

#25 I Passed My Certification Exam, What's Next (B) *Andrea Hickey, MLS(ASCP)^{CM}* - This session will discuss the advantages of being involved in professional organizations and why they are vital to the laboratory profession. Those just graduating or individuals who have been in the field awhile who wish to become more active should attend. This session will use ASCS as an example, but general principles can be applied to any organization.

#26 Molecular Evaluation of Myeloproliferative Neoplasms (I) *Noah Brown, MD* - This session will address the importance of mutations and rearrangements that occur in myeloproliferative neoplasm including BCR-ABL, JAK2, CALR and MPL. Both the diagnostic and therapeutic implications will be discussed as well as available detection methods.



#27 Diabetes: Testing & Disease Management (I) *Farogh Nazari, PhD, MBA, MLS(ASCP)^{CM}* - Diabetes is a group of metabolic diseases that are characterized by hyperglycemia. The underlying cause may be autoimmune in nature which impacts the hormone insulin or, may be due to defects in insulin secretion or its action. Regardless of the root cause, lack of insulin causes problems in carbohydrate, fat and protein metabolism associated with this disease.

#28 Genetic Testing Resource & Quality Consortium (GTRQC) (B) *David Keren, MD* - The expertise needed to interpret molecular testing is beyond the training of most clinicians and payers. This session presents a consortium designed to improve the quality of molecular testing by determining which tests are clinically actionable, eliminating those which are not, evaluating best practices, and equipping providers with outcome data.

#29 Case Studies in Flow Cytometry (I) *Ali Gabali, MD, PhD* - Case studies in flow cytometry will discuss major presentations of different reactive and malignant conditions in Hematopathology through a selection of clinical cases that reinforce the analytic process in flow cytometry.

#30 Urinalysis Case Reviews (I) *John Landis, MS, MT(ASCP)* - The session will be a review and a presentation of cases of typical and unusual renal and non-renal disorders that affect urinalysis results. Urinalysis physical, chemistry and microscopic findings will be correlated with disease states.

#31 The Role of a Disease Specialist (DIS) (B) *Shawn Woods* - A Disease Intervention Specialist (DIS) conducts field investigations of communicable diseases by locating and counseling persons exposed to, infected with, or having a positive test. DIS work closely with physicians, local health departments, and medical laboratories to assure correct diagnosis and treatment of patients and the prevention, detection, and reporting of communicable disease.

#32 Don't Get Stuck in the Middle with Your Middleware (I) *Eric Vasbinder, MT(ASCP)* - How can you get more out of your middleware? It is an often underutilized tool in the lab that can help improve productivity and operational knowledge of your track system. Moving averages, validation statistics and communication are some of the focus areas that will be discussed.

#33 Systemic Interpretation of Routine CBC Results (I) *Kathy Doig, PhD, MLS(ASCP)^{CM}SH^{CM}* - Learn to think through the multiple parameters of a complete blood count (CBC) like a hematology specialist. Translate the numerical values into a succinct description that promotes proper interpretation. Develop a systematic approach that detects errors and prevents missing significant findings.

#34 The New Oral Anticoagulants? To Monitor or not to Monitor? That is the Question? (I) *David McGlasson, MS, MLS(ASCP)^{CM}, H(ASCP)* - The laboratory still does not have FDA cleared assays for monitoring any of the novel oral anticoagulants (NOAC). Three of the NOAC's have already been approved for clinical use, with as many as three more to come on-line in 2015. Reversal of these agents is still in the research stages. Laboratorians will hear the latest information on testing for the effect and presence of these drugs and treatments to reverse their effects when faced with severe hemorrhaging.

#35 Blood Conservation (I) *Barbara O'Malley, MD, MT(ASCP)* - The audience will learn the adverse effects of transfusion and why there is a narrow range of therapeutic benefit. The benefits of blood conservation (improved clinical results, quality care and practice of good medicine) will be stressed. Additional benefits of cost reduction and decreased product usage and waste will also be covered.

#36 Safety in the Laboratory Quiz Show (I) *Suzanne Butch, MA, MLS(ASCP)^{CM}SBB^{CM}* - Participants will use audience response technology to identify safety issues in the clinical laboratory.

#37 Clinical Impact of Rapid Microbiologic Diagnostic Tests (I) *Duane Newton, PhD, D(ABMM)* - The speaker will discuss how utilization of a rapid diagnostic test can improve turnaround times in the microbiology laboratory and, if the information is used in real time, can have significant positive impacts on patient outcomes.

#38 Trauma - Induced Coagulopathy with Massive Transfusion Protocol (I) *George Fritsma, MS, MLS* - The American Association of Blood Banks and the American Association of Anesthesiologists provide guidelines on how to use RBCs, plasma, platelets, and cryoprecipitate in trauma or surgery-related acute hemorrhage. Lessons learned in Iraq and Afghanistan now lead us to promote 4-factor prothrombin complex concentrate, tranexamic acid, factor concentrates, and as a last resort, recombinant activated factor VII. What works, and what are the current guidelines?

#39 Challenges and Benefits of CellaVision DM96 Implementation (I) *Kristen Denzer, MLS(ASCP)^{CM} and Matt Heilbronn, MLS(ASCP)^{CM}* - This session will discuss the steps taken by the University of Michigan Hematology Laboratory to integrate the Sysmex CellaVision DM96 unit into daily workflow. Operation of the CellaVision DM96 analyzer, our correlation process and changes we made to laboratory workflow will be reviewed.

#40 Clinical Toxicology: A primer (I) *Martin H. Bluth, MD, PhD* - This session will address the evolution of toxicology in the 20th century based on psycho social development. Toxicology testing in the clinical arena for detection and treatment will be discussed along with describing the biological effects and methods for detection of toxic compounds. Additionally, an appreciation of the legal ramifications of toxicology testing will be defined.

#41 Linking the Laboratory to the Must-Have Institutional Capabilities in Value Based Healthcare (B) *Kari Asuncion* - This talk has been developed based on the demands of the "second curve", defined by AHA as the "the transformation of healthcare delivery and financing from volume-to value-based payments over the next decade." It will be mission critical that health systems uncover weakness, identify strengths and develop the capabilities necessary to sustainably prepare and transform to succeed as the second curve approaches and becomes the norm.

#42 What's New about Hemolytic Jaundice & Iron Salvage (I) *Kathy Doig, PhD, MLS(ASCP)^{CM}SH^{CM}* - Modern cell biology has improved explanations of the processes that occur during accelerated hemolysis. Familiar laboratory findings are now better understood, like why hemosiderin is found in renal tubular cells during excessive hemolysis. Current understandings of bilirubin production/processing and iron salvage will be discussed in normal and hemolytic conditions.



#43 Direct-to-Consumer Genetic Testing (B) *Hunter Best, PhD* - Direct-to-consumer (DTC) genetic testing is a fascinating area of the genetic testing market. In this presentation we will describe what is meant by DTC genetic testing, list the advantages and disadvantages of DTC genetic testing, and also discuss how changes in government regulation have altered how this testing is offered.

#44 Critical Values: Anti-Xa for Heparin Monitoring (I) *Jaime Serpe, MLS(ASCP)^{CM}* - Have you wondered about aPTT versus Anti-Xa for heparin monitoring? With the growing number of labs using Anti-Xa for heparin monitoring, this presentation discusses differences in assays for monitoring and assessment as well as reasons for aPTT and Anti-Xa assay discordance.

#45 Quality Management of Clinical Laboratories - A Risk Based Approach (B) *Paul Valenstein, MD, FCAP* - This session reviews laboratory quality management as a form of risk management. From quality control to external proficiency testing and accreditation, the practice of quality management can be viewed as risk assessment and the adoption of measures to mitigate risk. A review of major quality risks and common mitigation strategies will also be discussed.

#46 Transfusion Reactions (I) *Suzanne Butch, MA, MLS(ASCP)^{CM}SBB^{CM}* - This session will review the various types of transfusion reactions, reaction reporting and efforts to reduce transfusion reactions. The CDC categorization of transfusion reactions will be discussed.

Friday, April 17th

#47 Roots in the Road to Success and other seemingly innocuous obstacles on your path to success (B) *Ginger Weeden, MLS(ASCP)^{CM}* - What is your biggest obstacle in your road to success? What always seems to be in your way, preventing you from accomplishing even some of the smallest, but most ambiguous tasks? You Are! Learn to identify those gnarly roots and land snakes crossing your path and get moving more quickly and more successfully towards the ultimate objective. Understand what it takes to be a mindful leader in your company, your professional organization and your community.

#48 Immunotherapy - New Attempts to Harness the Immune System for Targeted Therapies (I) *Lynne Williams, PhD* - The possibility of harnessing a patient's own immune system to fight cancer has intrigued researchers and clinicians for decades. Exciting new advances in the field of immunology have increased the likelihood that this may become a reality. The exciting field of cancer immunotherapy is on the brink of realistic and effective cancer treatment options.

#49 Newly Emerging Infections in the U.S. (B) *Karen Krisher, PhD, MLS(ASCP)^{CM}* - Once limited to specific areas, newly emergent pathogens such as Ebola virus and other infectious agents are spreading worldwide. This presentation will provide an update on those diseases which have the potential for the greatest impact on the U.S in coming years.

#50 Plasma Cell Neoplasms (I) *John Landis, MS, MT(ASCP)* - This session will be a review of the plasma cell myelomas and a presentation of cases including plasmacytoma, asymptomatic and symptomatic plasma cell myeloma, monoclonal gammopathy of undetermined significance and lymphoplasmacytic lymphoma.

#51 Secret Lives of Blood Cells in Disease-Hematology Case Studies (I) *Roslyn McQueen, PhD* - This lecture will cover commonly encountered hematology case studies. It will focus on malignant and non-malignant hematology cases and use a case-based presentation and interactive discussion on topics of leukemia, anemia and other blood cell disorders.

#52 Leaning Out the Clinical Laboratory (B) *Sheila Moore, MSA, MT(ASCP)SH* - A look at how lean concepts commonly associated with manufacturing are applied to clinical laboratory processes to increase efficiency and reduce waste.

#53 Parasitology Case Studies (I) *William LeBar, MS(ASCP)* - Presentation of case studies of unusual presentations of protozoal, helminth and vector borne diseases.

#54 Making Clinical Correlations Using Instrument Data and Morphology (I) *Lynn Maedel, MS, MLS(ASCP)^{CM}SH^{CM}* - Using a case study approach, this session presents hematology (CBC) data along with peripheral blood cell morphology. Paired cases initially may appear similar. The participants will be reminded to "look at the bigger picture" and avoid being myopic to help rule out certain pathology and make relevant clinical correlations using their presented information.

#55 LIS: Past, Present and Future (B) *Lisa Moore, MT(ASCP)* - This session will begin with a review of how computers and their use in healthcare began. A comparison of today's standards will be presented followed by a discussion of the future of computers in the laboratory and some of the tools which will be utilized in tomorrow's labs.

#56 pH: An Anchoring and Tie-in Teaching Approach (I) *Thomas Downs, MT(ASCP)* - An approach to teaching medical technologist interns using pH as a central concept. During intern chemistry rotation and lecture series, introduce a pH anchoring approach that uses a "tie-in" review process to relate daily lecture topics to the overall concept.

#57 Urines: Significance of Reflexing, Counts & Important Organisms (I) *Karen Krisher, PhD, MLS(ASCP)^{CM}* - The accuracy of quantitative urines as predictors of infection, reflexing to culture based on screening results and the prospect that urine is not sterile, adds to the dilemma of how to properly handle these specimens. This presentation will address the newer aspects of urine processing in the microbiology lab.

#58 Those Bodacious Body Fluids (I) *Lynn Maedel, MS, MLS(ASCP)^{CM}SH^{CM}* - Body fluid morphology is not always easy. Using images of cytocentrifuged Wright stained slide preps, this presentation provides numerous opportunities for participants to examine normal, reactive and malignant cell morphology. Key differentiating characteristics are illustrated using serous and synovial fluid specimens.

#59 Not Another Positive Reaction! Strategies for Managing Complex Antibody Identification (A) *Sharon Ziemba, MSA, MLS(ASCP)^{CM}SBB* - Finding positive reactions at every turn of your antibody work up? Maybe it's time for a break or maybe it is time for a new approach to antibody identification. This session will present strategies for managing complex antibody identification cases.

#60 Using HLA as the Rosetta Stone for Immunology (I) *John Gerlach, PhD, D(ABHI)* - A review of HLA structure, function and nomenclature. The alphabet soup of HLA alleles will be covered and a link to their role in the immune response and/or ontogeny.



#61 A Not So Old-Fashioned Microbiology Revival Meeting (B) Pastor Ella - Come join the cult(ure) of Microbiology and participate as Pastor Ella re-baptizes you with the joyful spirit of all things great, but mostly small. The format will be "call and response," i.e. multiple choice question and answer.

#62 Authentic and Spurious Causes of Thrombocytopenia (B) Brooke Orłowski, MLS(ASCP)^{CM} - Thrombocytopenia is a decrease in platelets and may be caused by several diseases and disorders. A low platelet count can occur from destruction or decreased production of platelets. The medical technologist needs to investigate if the low platelet count is due to a disease process or if there was anything else interfering that could cause a falsely low platelet count.

#63 Document Control for Control Freaks (I) Kristina Martin, MLS(ASCP)^{CM} - This session will focus on the regulatory requirements of complying with control of policies, procedures and job aids. Specific attention to pragmatically implementing a document control system will be discussed.

Phlebotomy Workshop

#64 Ending Hemolysis in the ED...and Everywhere Else (A) Dennis Ernst, MT(ASCP) - This presentation discusses the preanalytical causes of sample hemolysis, details how laboratories can prevent its occurrence in the emergency department and throughout the facility, provides benchmarks for comparison with other facilities, and presents effective strategies managers and blood-collection personnel can implement to reduce sample rejection due to hemolysis facility-wide.

#65 Seizing Control of Blood Culture Contamination Rates (I) Dennis Ernst, MT(ASCP) - False positive blood cultures consume laboratory productivity, waste precious resources, and subject patients to unnecessary hospitalization and treatment. Yet many facilities lack the strategies to defeat this persistent preanalytical enemy. This presentation discusses blood culture contamination benchmarks and common causes, then proposes strategies in technique and management to reduce contamination rates facility wide.

#66 What Would You Do? (I) Dennis Ernst, MT(ASCP) - This is an interactive presentation with up to 12 phlebotomist and staff management scenarios presented for discussion. Case studies include patients who insist on selecting the vein, family members who demand test results, hiring mistakes, handling bullies, patients who threaten, coworkers who sleep on the job, addicts who ask if they can insert the needle, and more. After group responses are offered, the presenter suggests appropriate responses and shares how others have responded when posed with the same scenarios.

#67 Industry Update (B) Dennis Ernst, MT(ASCP) - A leading authority in the blood collection industry shares the latest news affecting those who perform, teach or supervise blood collection personnel. New studies emerging in the peer reviewed literature will be discussed as well as current trends, new products, legislative developments, and other advances in the industry.

Discipline Codes - See Following Grids

(BB)-Blood Bank	(BF)-Body Fluids	(C)-Chemistry
(CG)-Coagulation	(G)-General Topic	(H)-Heme
(IM)-Immunology	(LM)-Lab Mgmt	(M)-Micro
(MO)-Molecular	(P)-Phlebotomy	(U)-Urine

Wednesday, April 15th

7:00-3:30	Registration					
8:00-9:00	1. Leadership: Is there an App for It? (G)					
9:15-10:15	2. Complement: History, Cases & Perspectives (C, IM)	3. Rapid Rewards: Identification from Positive Blood Cultures (M)	4. Demystifying Lupus Anticoagulant: Wet Workshop (CG)	5. Blood Bank Case Studies (BB)	6. Reducing Send-out Costs to Meet the Challenge of Increased Testing Volume Under the Affordable Care Act (LM)	
10:30-11:30	7. Therapeutic Drug Monitoring Using Mass Spectrometry (C)	8. Screening for Carrier of Carbapenemase Resistant Organisms (M)		9. Clinical Perspectives on Irradiated Blood Products (BB)	10. Improving Blood Specimen Quality & Patient Care (LM)	
11:45-12:45	11. Doctors Without Borders (G) Lunch					
1:00-2:00	12. Interferences in Chemistry & Immunoassay Tests (C)	13. Clinical, Infection Control, & Laboratory Aspects of Ebola Virus (M)	14. Epigenetic Complications in Myeloproliferative Neoplasms (H, MO)	15. Hospital Billing Basics (LM)	16. Re-emerging Viral Infections in Patients with Sepsis: Clinical Implications (M)	Poster Judging
2:00-3:15	BEAM Dessert Reception With Exhibitors			2:30 - 3:00: FYP Panel		
3:15-4:15	17. Progression of Renal Disease in Dialysis Patients (C)	18. Microbiology - A Review of Direct Gram Stains (M)	19. Demystifying Lupus Anticoagulants (CG)	20. The ABC's of Blood Components (BB)	21. CLIA & Individualized Quality Control Plan (IQCP) (LM)	Poster Judging
4:30-6:00	ASCLS - Michigan Board of Directors Meeting					



Thursday, April 16th

7:00-4:30	Registration						
7:45-9:15	68. Welcome Breakfast & Membership Meeting						
9:30-10:30	22. The Nitty Gritty of Capillary Electrophoresis (C)	23. Health & the Human Microbiome (M)	24. RBC Morphology Review (H)	25. I Passed My Certification Exam, What's Next? (G)	26. Molecular Evaluation of Myeloproliferative Neoplasms (H, MO)	Exhibits Open	
10:30-11:15	Beverage Break with Exhibitors						
11:15-12:15	27. Diabetes: Testing & Disease Management (C)	28. Genetic Testing Resource & Quality Consortium (MO, LM)	29. Case Studies in Flow Cytometry (H)	30. Urinalysis Case Reviews (U)	31. The Role of a Disease Intervention Specialist (DIS) (LM)		
12:15-1:30	Lunch with Exhibitors			Student Forum Lunch			
1:30-2:30	32. Don't Get Stuck in the Middle with Your Middleware (C)	33. Systemic Interpretation of Routine CBC Results (H)	34. The New Oral Anti-coagulants? To Monitor or not to Monitor? That is the Question? (CG)	35. Blood Conservation (BB)	36. Safety in the Laboratory Quiz Show (G)		
2:45-3:45	37. Clinical Impact of Rapid Microbiologic Diagnostic Tests (M)	38. Trauma-Induced Coagulaopathy with Massive Transfusion Protocol (BB, CG)	39. Challenges & Benefits of CellaVision DM96 Implementation (H)	40. Clinical Toxicology: A primer (C)	41. Linking the Laboratory to the Must-Have Institutional Capabilities in Value Based Healthcare (LM)		
4:00-5:00	42. What's New about Hemolytic Jaundice & Iron Salvage? (C)	43. Direct to Consumer Genetic Testing (MO)	44. Critical Values: Anti-Xa for Heparin Monitoring (CG)	45. Quality Management of Clinical Laboratories - A Risk Based Approach (LM)	46. Transfusion Reactions (BB)		
5:15-6:15	ASCLS - Michigan Annual Awards Ceremony						
6:30-8:30	All School Alumni Party: All Attendees Invited						

Friday, April 17th

7:30-3:00	Registration					
8:00-9:00	47. Roots in the Road to Success <i>and other seemingly innocuous obstacles on your path to success (G)</i>					Phlebotomy Workshop
9:15-10:15	48. Immunotherapy - New Attempts to Harness the Immune System for Targeted Therapies (IM)	49. Newly Emerging Infections in the U.S. (M)	50. Plasma Cell Neoplasms (H)	51. Secret Lives of Blood Cells in Disease - Hematology Case Studies (H)	64. Ending Hemolysis in the ED...and Everywhere Else (P)	
10:30-11:30	52. Leaning Out the Clinical Laboratory (C)	53. Parasitology Case Studies (M)	54. Making Clinical Correlations Using Instrument Data & Morphology (H)	55. LIS: Past, Present & Future (LM)	65. Seizing Control of Blood Culture Contamination Rates (P)	
11:45-1:00	69. Lunch Presentation: Lifetime Achievement Award - Suzanne Butch					
1:15-2:15	56. pH: An Anchoring & Tie-in Teaching Approach (C)	57. Urines: Significance of Reflexing, Counts & Important Organisms (M)	58. Those Bodacious Body Fluids (BF)	59. Not Another Positive Reaction! Strategies for Managing Complex Antibody Identification (BB)	66. What Would You Do? (P)	
2:30-3:30	60. Using HLA as the Rosetta Stone for Immunology (IM)	61. A Not So Old-Fashioned Microbiology Revival Meeting (M)	62. Authentic & Spurious Causes of Thrombocytopenia (H)	63. Document Control for Control Freaks (LM)	67. Industry Update (P)	

Session Handouts No printed session handouts will be available on-site. A CD containing some session literature will be distributed at the



