



NEW CHALLENGES...NEW DECADE

Michigan Society for Clinical Laboratory Science

Annual Meeting & Exhibits

April 14 – 16, 2010 • Kellogg Center • East Lansing, MI

This is the ONLY Program you will receive!

Registration Form Enclosed



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

Forwarding Service Requested



Michigan Society for Clinical Laboratory Science

Presents

“New Challenges...New Decade”

April 14-16, 2010 East Lansing, Michigan



You are Invited to be part of “New Challenges... New Decade”, Michigan Society for Clinical Laboratory Science’s 61st Annual Conference & Exhibits. Come and join with your colleagues from across the region to advance our critically important profession of Clinical Laboratory Science. There is no better value for continuing education or opportunity for networking with your peers available in our state. You simply won’t want to miss it! Be there, make a difference, and celebrate our profession.

- Lisa Moore MT(ASCP), General Chairperson

General Information

Pre Registration

Meeting attendees are strongly encouraged to pre-register by March 29th to receive the discounted registration rate. Please see pages 11 & 12 for instructions.

On Site Registration

On site registration is located in the South Lobby of the Kellogg Hotel and Conference Center in East Lansing.

Registration Desk Hours

Wednesday, April 14th	7:30 am to 4:00 pm
Thursday, April 15th	7:30 am to 4:00 pm
Friday, April 16th	7:30 am to 2:30 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!** Download and print a Membership Application Form from the ASCLS web site:

www.ascls.org/membership/app.pdf

Send completed form and **check payable to ASCLS** along with your 2010 MSCLS meeting registration form and check to:
MSCLS 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, meetings, workshops and social functions. Replacement badges may be obtained at the registration desk for a fee of \$5.00.

Exhibits

Exhibits will be open longer hours this year to allow more time to visit the booths and spend more quality time with the vendors.

Wednesday April 14th	1:45 pm to 4:15 pm
BEAM dessert reception:	1:45 pm to 3:15 pm
Thursday April 15th	9:15 am to 1:30 pm
Lunch with Exhibitors	12:00 pm to 1:30 pm

Daily Prize Drawings!

Your registration packet will have a prize drawing card for each day of the convention exhibits. Visit the exhibitors and place your card in the drawing box Wednesday and Thursday for an opportunity to win!

Refreshments

Beverages will be provided at each of the breaks between sessions: Wednesday: 10:00 am, Thursday: 10:15 am and 2:30 pm, Friday: 10:30 am

Continuing Education Credit

MSCLS is an approved provider of continuing education by the P.A.C.E[®] program, which is accepted by the Board of Registry (BOR) Certification Maintenance Program and all states. The MSCLS annual meeting offers a wide range of educational opportunities to meet your continuing education requirements. Over 60 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 Sessions - Continuing Education Opportunity

New this year will be the opportunity to obtain P.A.C.E[®] approved continuing education credit by attending the Poster Presentations. See information for session #5 on page 5.

General Objectives of the Meeting

Through participation in the MSCLS 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 running 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 14th

Keynote Address

10:15-11:15



Wendy Arneson "Helping to Build Laboratory Capacity in Africa: Teaching and Learning ASCP PEPFAR Experiences"

Participants will learn about PEPFAR, an international relief effort to increase laboratory capacity in high incidence AIDS countries.

Micah Kephart



"African AIDS Crisis"

HIV/AIDS is claiming the lives of 7000 people every day. The epidemic in sub-Saharan Africa is complex but there are tangible ways that we can make a difference. Micah Kephart, co-founder of Poetice, an organization whose mission is to engage in global conversation to artistically bring awareness to social issues, will bring stories from his personal experience of working in Africa addressing the AIDS crisis.

Luncheon Address

11:15-12:30

Karen Poster-Verrill

"Doctors Without Borders"

This session will describe the medical and humanitarian organization Doctors without Borders. The session will include information on their history, principles, response to medical emergencies and working in the field. It will also include personal experiences of working with HIV & MDR-TB projects in Uzbekistan and Kenya as a laboratory scientist.

Menu: Pecan Crusted Chicken with Asiago cheese and Madeira sauce, citrus rice pilaf, House Mixed Greens Salad with cherry tomato, cucumber, croutons, house and ranch dressings, rolls, butter, iced and hot tea and coffee service.

\$22, Ticket required,

Lunch available through pre-registration ONLY.

BEAM Dessert Reception with Exhibitors

1:45-3:15

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.

Join us for an array of the Kellogg Center's specialty desserts, coffees, and refreshing beverages.

All attendees are invited. Badges are required.

Please RSVP on the Registration Form.

MSCLS Awards Presentations

4:30-5:30

MSCLS will present the Clinical Laboratory Scientist of the Year Award, Mentorship Award, Key to the Future, Pam Agren Inspiration Award, and Omicron Sigma nominations as well as announce the winners of the BEAM scholarship, poster/oral competitions, and mock certification examinations. See the December 2009 issue of *Newslinks* for details on any of these awards. Plan to attend and cheer the accomplishments of your peers!

Thursday, April 15th

Clinical Laboratory Science Issues & Updates Breakfast

8:00-9:00

As you enjoy a Continental Breakfast, the CLS Issues & Updates presentation will provide a P.A.C.E[®] approved session exploring current issues affecting our profession, such as the ASCP-NCA merger, legislation that impacts our field, and what MSCLS has been working on for you over the past year.

All attendees are invited. Badges are required.

Please RSVP on the Registration Form.

Keynote Address

11:00-12:00

Linda Gorman "BOC Merger Update"

What does the BOC merger mean to you? As we break new ground with this merger, many of us have been asking this question. This session will try to address some of our mutual concerns and questions. New registrants will see many changes in their careers and the BOC merger is meant to help them overcome the challenges and be successful. Together, all of us can make this a better profession!

Lunch with Exhibitors

12:00-1:30

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: Roasted Vegetable Lasagna with smoked tomato and basil, topped with mozzarella and parmesan cheese sauce, Spinach Salad with toasted almonds and raspberry vinaigrette, rolls, butter, iced and hot tea, coffee service, and Chocolate Mousse.

\$22, Ticket required,

Lunch available through pre-registration ONLY.

Student Forum

12:00-1:30

The student forum will offer students a light lunch (\$2). Discussions will follow led by the current student representative on issues of importance to students in the profession. **All students are invited to attend.**

Please RSVP on the Registration Form.

\$2, Ticket required,

Lunch available through pre-registration ONLY.



Sparty Party

6:30-9:00

Come join MSU MT/CLS/BLD alumni and friends for an evening of friendship, fun and refreshments. Open to all meeting guests, as well as MSU alumni, the event will feature food and fun as the MSU Biomedical Laboratory Diagnostic program highlights the changes and future of its renowned clinical laboratory science program.

All attendees are invited. Badges are required.
Please RSVP on the Registration Form.

Friday, April 16th

Keynote Address

8:30-10:00

Linda Goossen "East Meets West"



Travelogue of an educational 3 week visit to Beijing, China to study integrative medicine at the China-Japan Friendship Hospital. An overview of Traditional Chinese Medicine and its integration with Western Medicine will be given. Various Chinese cultures and traditions will be presented.

Luncheon

12:30-1:30

Enjoy this opportunity to relax and network with both old acquaintances and new friends on this last day of the conference.

Menu: Michigan Chicken roasted and served with Michigan cherry and basil sauce, with wild and white rice pilaf, Organic Greens Salad with dried cherries, roasted walnuts, and balsamic vinaigrette, rolls, butter, iced and hot tea, coffee and MSU Dairy Ice Cream served with a wafer cookie.

\$22, Ticket required,

Lunch available through pre-registration ONLY.

Phlebotomy Workshop

10:00-3:40

In addition to the Friday Keynote Address, four sessions of special interest to phlebotomists are presented at a special discounted rate.

- #45: Medical Terminology Review
- #50: Managing Preanalytical Variables in Venipuncture
- #55: Let's Be Safe
- #60: Root Cause Analysis

General Admission attendees are also welcome to attend these sessions. Please refer to pages 8 & 9 for program details and pages 11 & 12 for registration information.

Questions about the Conference or Registration?

Contact Joy Bergeron at: 800-296-5954
or e-mail: joy@classicevents.net

MSCLS Governance Sessions

Wednesday, April 14th, 5:45 – 6:45 pm
MSCLS Board of Directors Meeting
Thursday, April 15th, 5:30 – 6:30 pm
MSCLS Membership Meeting

All members are encouraged to attend!

Thank You to the 2010 MSCLS 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.

Lisa Moore, General Chairperson	
Ric Benson	Lindsay Hengsbach
Denise Elwart	Carey Loveland
Gwennan Engen	Kevin McGlinchey
Alicia Estlak	Cathy Rodger
Jean Garza	Gordon Schipper
Paul Guthrie	

Special Appreciation

The Michigan Society for Clinical Laboratory Science gratefully acknowledges the following organizations for their generous support of speakers and/or direct financial contributions towards the 61st MSCLS Annual Meeting.

Abbott Laboratories
American Proficiency Institute
BD Diagnostics
Beckman Coulter
BioRad
Cellavision
Global Focus Marketing
Grand Valley State University
Iris Diagnostics
Kelly Scientific Resources
Lattice, Inc
Lifescan
Mayo Medical Laboratories
MGH Laboratory
Michigan Blood
Millipore Corporation
Michigan State University
Ortho-Clinical Diagnostics
Pathology Outlines
Poetice
Roche Diagnostics
Sparrow Health System
Sysmex America, Inc.
Trinity Biotech

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



Meeting Accommodations

Kellogg Center

55 South Harrison Rd
East Lansing, MI
48824



Reservations:

(800) 875-5090

Web site:

www.kelloggcenter.com

Room Rates:

Single/Double: \$95 plus tax

You must mention MSCLS and reserve by March 14, 2010 to receive the discounted rate.

Directions:

From Ann Arbor - I-23 North to I-96 West, to US-127 (exit 106) North (3.1 miles) to Trowbridge Road exit East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

From Charlotte - North on I-69 to I-496 East; East (5 miles) to Trowbridge Road (exit 9) East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

From Chicago - I-94 East to I-69 North, to I-496 East; East (5 miles) to Trowbridge Road (exit 9) East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

From Detroit - I-96 West to US-127 (exit 106) North (3.1 miles) to Trowbridge Road exit East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

From Flint - West on I-69 to US-127 (exit 89) South (5.5 miles) to Trowbridge Road exit East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

From Grand Rapids - East on I-96 to I-496 (exit 95) East (9.7 miles) to Trowbridge Road (exit 9) East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

From Kalamazoo - I-94 East to I-69 North, to I-496 East; East (5 miles) to Trowbridge Road (exit 9) East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

From St. Johns - South on US-27 to US-127 South (8.5 miles) to Trowbridge Road exit East (.5 miles) to Harrison Road; turn left North approximately 1 mile on the right (four traffic lights up).

Parking - The Kellogg Hotel & Conference Center is pleased to offer complementary parking for overnight guests and \$5 daily for visitors.

Educational Program

Wednesday, April 14th

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

(B) = Basic level; no prior knowledge necessary.

(I) = Intermediate level; some prior knowledge necessary.

(A) = Advanced level; extensive prior knowledge needed.

#1 Bombay Phenotype Case Study (I) *Joseph Melvin, PhD* The Bombay Phenotype is extraordinarily rare and of particular clinical significance in regards to blood transfusion. This rare amorphic state was detected in a 25 year old woman of Indian descent at the time of delivery. This case is discussed from the standpoint of its relevance to blood group serology and transfusion medicine.

#2 Difficult C. difficile (B) *Rhonda Hensley, C(ASCP) MS* C.difficile, known for being difficult to culture, also presents difficulties for toxin testing. This session will review the pathogenicity of C. difficile, new EIA and PCR testing methods, and explore different toxin testing algorithms.

#3 Laboratory Safety...It's Not Just for Specimens Anymore! (I) *Cindy Zastrow, MS* This program is designed to give the laboratory worker an overview of some of the hazards that may be encountered in the laboratory environment. This overview will include ergonomic issues, one of the most common causes of injuries and illnesses in the workplace; general, biological, chemical, radiological issues and requirements, and noise.

#4 PSA Screening: Indications and Controversies (I) *Jeffrey S. Montgomery, MD, MHSA* Indications and controversies in PSA screening.

#5 Poster Presentations (B) *Lisa Moore MT(ASCP) and Alicia Estlack MT(ASCP)* Attendees to the P.A.C.E.[®] approved poster presentation session will hear all participants present their abstracts, findings, and conclusions. Each poster will be given approximately 7 minutes to present their project orally. Judges will have been given an opportunity to ask questions before and after the presentation. Presentation will give others an opportunity to earn CEU's for the posters.

#6 African AIDS Crisis (B) *Micah Kephart* HIV/AIDS is claiming the lives of 7000 people every day. Micah Kephart, co founder of Poetice an organization whose mission is to engage in global conversation to artistically bring awareness to social issues, will bring stories from his personal experience of working in Africa addressing the AIDS crisis. The epidemic in sub – Saharan Africa is complex but there are tangible ways that we can make a difference.

Helping to Build Laboratory Capacity in Africa: Teaching and Learning ASCP PEPFAR Experiences (B)

Wendy Arneson, MS, MT(ASCP) Participants will learn about PEPFAR, an international relief effort to increase laboratory capacity in high incidence AIDS countries. Dis-



discussion will focus on images and experiences in: 1) training for laboratory professionals on quality assurance and HIV testing, 2) reviewing laboratory teaching programs' curriculum to provide updated content for sustainability purposes and, 3) providing teaching technical assistance in laboratory schools.

#7 Doctors Without Borders (B) *Karen Poster-Verrill, MT(ASCP)* This session will describe the medical humanitarian and organization Doctors without Borders. The session will include information on the history, principles, response to medical emergencies and working in the field. It will also include personal experiences of working with HIV & MDR-TB projects in Uzbekistan and Kenya as a laboratory scientist.

#8 Emergency & Massive Transfusion (I) *Suzanne Butch, MA, MT(ASCP)SBB* This session will review the blood bank response to trauma and massive transfusions at both large and small institutions.

#9 Microarray Technology and Clinical Application (B) *Alan A. Dombkowski, PhD* Microarray technology offers unprecedented views of cellular events on a genome-wide basis. These methods have become ubiquitous in biomedical research. More recently, the potential of microarray technology in a clinical diagnostic role is becoming realized. This seminar will provide an introduction to microarrays and a discussion of successful clinical applications.

#10 "Excel"ent Tips (I) *Denise M. Elwart, MBA* Learn shortcuts and other tips for 2003 Microsoft Excel®, including common functions, data sorts, charts, macros and pivot tables. Skills learned can be applied to the 2007 version. Participants should have a basic knowledge of Excel.

#11 Genome Sequencing & Human Medicine (I) *Brendan Looyenga, PhD* Recent advances in biotechnology have made it possible to sequence the entire human genome. It is now realistic to predict that genomic sequence will become part of standard medical information in the coming decade. The dramatic impact this change will have on clinical and laboratory medicine will be discussed by the speaker.

#12 Urinalysis Review (I) *John Landis, MS, MT(ASCP)* Cases of typical and unusual renal and non-renal disorders that affect urinalysis results will be presented. Urinalysis chemistry and microscopic findings will be correlated with disease states.

Sponsored by American Proficiency Institute (API)

#13 Integrating Automation in the Blood Bank Workflow (I) *Terry Downs, MT(ASCP)SBB, CQA(ASQ)* Automating your Blood Bank can be a challenge when trying to develop the workflow around the instrument. Who should be involved? How best to move forward when obstacles are present? This session will describe some considerations around testing, process change, communication, LIS changes, SOP's and training.

#14 Parasitology Review (I) *Dr. Deb Stai* A comprehensive review of Clinical Parasitology. Memories of parasites in blood – feces – CSF... "the list goes on".

#15 Top 10 Deficiencies Found During Inspections (B) *Ric Benson, CLDir(NCA)* The session will review the most common deficiencies for laboratories, using the requirements of 42 CFR Part 493 (CLIA regulations) and a brief recap of the authority of the state to inspect any laboratory.

#16 The Cancer Cell: A Discussion of Cell Biology and Medical Laboratory Diagnostics (I) *Kristin Landis-Piwowar, PhD, CLS(NCA)* An introduction to cancer cell biology including terminology, the hallmarks of cancer, and laboratory techniques used in cancer research and diagnostics will be presented.

#17 Coag Review (I) *Kevin McGlinchey, MT(ASCP)* This session is targeted to Medical Technology students and/or individuals looking for a basic review of coagulation including an overview of the coagulation cascade, coagulation tests, and methodologies used in today's laboratories.

Sponsored by Trinity Biotech

Thursday, April 15th

#18 CLS Issues and Updates (B) *Julie Sipnieski, MT(ASCP)* The CLS Issues & Updates presentation will explore current issues affecting our profession, such as the ASCP-NCA merger, legislation that impacts our field, and what MSCLS has been working on this year for you.

#19 Overview of Hemostasis and Thrombosis (I) *J. Lynne Williams, PhD, CLS(NCA)* While the "intrinsic" and "extrinsic" pathways have been the foundation of our understanding of hemostasis for decades, recently focus has shifted to what is now recognized as the "physiologic" pathway. This session will present an overview of hemostasis and thrombosis, based on the newly recognized physiologic pathway.

#20 Bio-weapons with a Focus on B. anthracis (B) *Stephen Cendrowski, PhD, MT(ASCP)* Pathogenesis and identification schemes for category A bacterial biothreat agents are described.

#21 Hematology in the Elderly Population "What's New with the Old?" (I) *Roslyn McQueen, PhD, CCRC* What constitutes "normal" for the elderly patient continues to be a matter of considerable debate. There is still controversy concerning the assignment of geriatric age specific reference ranges, especially, since aging is often accompanied by physiologic changes and the prevalence of underlying diseases increases markedly with advancing age. However, for proper interpretation of hematologic data, there must be a complete understanding of the association of disease with the elderly. This presentation will review hematologic reference ranges from healthy, elderly individuals and discuss hematopathology in the elderly.

#22 Michigan OSHA Rights & Responsibility (I) *Marsha Parrott-Boyle, MS, CLDir* What are the current



Michigan workplace safety and health basic obligations for employers? The law provides for both employer obligations and employers rights. Management and staff should also be aware when might a workplace be inspected? Can employees complain? Where could laborers find the rules and have they changed?

#23 Making Clinical Correlations with Hematology Data and Morphology (I) *Lynn Maedel, MS, MLS (ASCP)SH* Using a case study approach, this session will present hematology (CBC) data along with microscopic cell morphology. The participants will be asked to “look at the bigger picture” in order to help rule out certain pathology and to make relevant clinical correlations using the presented information. Some cases will initially appear as “look alikes”.

Sponsored by American Proficiency Institute (API)

#24 BOC Merger Update (I) *Linda S. Gorman, PhD, CLS(NCA)* What does the BOC merger mean to you? As we break new ground with this merger, many of us have been asking this question. This session will try to address some of our mutual concerns and questions. NCA fostered the need for continuing education and the BOR has also seen the wisdom of CE after we become registrants. This philosophy will need to be continued under the BOC merger. New registrants will see many changes in their careers and the BOC merger is meant to help them overcome the challenges and be successful. Together all of us can make this a better profession.

#25 Liver, Pancreas and the Lab (I) *Nino Soave, DO* The session will discuss the various lab tests that are done to detect, diagnose and guide treatment for certain liver and pancreatic disorders. Some physiology and pathology will be covered as well.

#26 How HbA1c as a Screen Could Impact Your Lab (I) *Julie Myers CSD* HbA1c method standardization has been achieved within the United States. Screening for diabetics and pre-diabetics: Why use HbA1c in the screening process? What changes are needed to use HbA1c in the screening process, and how will they impact your laboratory?

Sponsored by Bio-Rad

#27 Those Bodacious Body Fluids (B) *Lynn Maedel, MS, MLS(ASCP)SH* They don't have to be that scary! This presentation will cover normal, reactive and malignant cytospin prep cell morphology seen in serous (pleural, peritoneal) body fluids and synovial fluids. You will feel better about calling these cells by the end of this session, I promise.

Sponsored by American Proficiency Institute (API)

#28 HIPAA Regulations Update (I) *Linda Spang, JD, EMT-P* The American Recovery and Reinvestment Act of 2009 took full effect in February of this year. This session will focus on how the HITECH Act subparts of this Act impacts the lab and laboratory services. This session will also look at OIG Work Plan related issues.

#29 Chemistry Review (B) *Harland Verrill, PhD, DABCC* The chemistry review in the format of ten sto-

ries and ten lessons.

#30 Troubleshooting the Positive Antibody Screen: Tube and Gel Testing (I) *Ann Steiner, MT(ASCP)SBB* This presentation will review the management of false positive antibody screens. Much of the review will be pertinent to all pretransfusion antibody detection methodologies, however the focus will be on tests performed in test tubes or gel. Information will be shared on: causes, recognition, resolution and avoidance.

Sponsored by Ortho Clinical Diagnostics

#31 Vitamin D/PTH (B) *Michael Leuther, PhD, MBA* This slide lecture will consist of a 45 minute interactive presentation consisting of an introduction to vitamin D and parathyroid hormone and the clinical relevance they play in maintaining a calcium balance in the body. Osteoporosis and parathyroid cancers will also be discussed.

Sponsored by Roche Diagnostics

#32 Review of RBC Morphology, and its Application in Patient Evaluation (I) *J. Lynne Williams, PhD, CLS (NCA)* Alterations of RBC morphology are often useful in suggesting diagnostic and reflex testing pathways. This session will review RBC morphologic alterations, their pathophysiologic origins, and associated disease correlations.

#33 The Use of Cardiovascular Biomarkers (B) *Robert Hanson, DO* A general overview of selective Cardiovascular Biomarkers used to risk stratify patients with atherosclerotic and ischemic heart disease.

#34 Blood Bank Review (I) *Mary Stunkard, MT(ASCP), PhD* This course is designed to provide the learner with a review of major topics in blood banking in preparation for the MLS(ASCP) examination, including blood products, blood group systems, physiology and pathophysiology, serology and transfusion practice.

#35 HbA1c in Screening, Diagnosis and Monitoring of Diabetes: Points to Consider (I) *Andrea M. Rose PhD, MBA* Causes and consequences of Diabetes Mellitus, HbA1c standardization, and new requirements for manufacturers and laboratories in certification and proficiency testing will be presented. The recent A1c-Derived Average Glucose study will be discussed plus considerations for using HbA1c in screening and diagnosis with an emphasis on methodological differences that impact accuracy.

Sponsored by Roche Diagnostics

#36 Molecular Diagnostics: From Revolution to Mainstream to Personalized Medicine (B) *Daniel H. Farkas, PhD, HCLD* In the 1980's, the notion of using the complicated tools of molecular biology in the clinical laboratory was truly revolutionary. During the '90s the field matured to the point where it has now become a mainstream component of laboratory medicine. The next phase of the “revolution” is the application of the fruits of the completion of the Human Genome Project to genomic medicine, also known as personalized medicine.

#37 Flow Cytometry (I) *Susan McQuiston, JD, MS, MT (ASCP)* The presentation will cover fundamental concepts



of flow cytometry and analysis. Other instrumentation that uses flow cytometry principles will be described.

#38 Networking Skills (B) *John Hill* Learn how to take your online connections offline for career/professional success. We'll focus heavily on online networking tools like Facebook, Twitter and LinkedIn and how you can apply those for career/business development.

#39 Microbiology Review (I) *Jeanne Stoddard, MT (ASCP)MHS* This microbiology session is designed as a review of basic bacteriology for MLS students in preparation for their certification exam. Parasitology, virology and mycology will also be covered but with a very minor emphasis.

Friday, April 16th

#40 East Meets West (I) *Linda Goossen, PhD* Travelogue of an educational 3 week visit to Beijing, China to study integrative medicine at the China-Japan Friendship Hospital. An overview of Traditional Chinese Medicine and its integration with Western Medicine. Various Chinese cultures and traditions will be presented.

#41 Pharmacogenomics (B) *Harland Verrill, PhD, DABCC* New laboratory tests can predict the response of patients to various medications. Pharmacogenomics is the new science of how laboratorians and clinicians will collaborate in the future for better patient care.

#42 Erythropoiesis – A Modern View of Old Observations (I) *Kathy Doig, PhD, CLS(NCA), CLSp(H)* Why are iron deficient cells small? Do red cells really get iron via the suckling pig phenomenon in the marrow? The application of cell and molecular biology principles to erythropoiesis to answer these and other questions about what we have traditionally observed about red blood cells.

#43 Blood Glucose Monitoring Specificity and Sampling Impact on Patient Safety (B) *Rick Lebo, BS, MT (ASCP)* Presentation will review the impact of the BGM system enzyme specificity on patient safety with review of current reported issues. Also, epidemiologist recommendations concerning off-meter sample applications on test strips and implications for Healthcare Associated Infections (HAIs). A review of the impact of HAIs on hospitals will also be discussed. *Sponsored by Life Scan*

#44 Navigating the In's and Out's of FMLA (B) *David Roraff* Entry level understanding of the Family and Medical Leave Act and how it impacts your business.

Phlebotomy Workshop Session

#45 Medical Terminology Review (I) *Linda Spang, JD, EMT-P* This session is for anyone preparing to take a certification exam who needs a brush up on their medical terminology. During the session, participants will review the fundamentals of medical terminology and how to successfully attack those pesky test questions. Participants are invited to bring questions for inclusion in the

session.

#46 Pharmacogenomics (Repeat of Session #41)

#47 Test Taking Tips for Certifying Exams (B) *Kathy Doig, PhD, CLS(NCA), CLSp(H)* Develop strategies to help you prepare for and take national certifying examinations at any level from phlebotomist to specialist.

#48 Tight Glycemic Control (I) *Larry Custer, R.Ph, Diabetes Team Coordinator* Tight Glycemic Control has been an essential tool in the management of critical care and cardiac center clinical diabetes practice. The resulting data, known as glucometrics, can aid clinicians in the clinical management of diabetes practice. This session will describe the evidence and clinical guidelines that result in the establishment of blood glucose target ranges.

#49 Creating an Effective RFP for Instrumentation (B) *Kevin McGlinchey, MT(ASCP), CLS(CG)* Getting exactly what you want and need from your purchase of laboratory instruments starts with your Request for Purchase process. This session will review the essential elements of an effective RFP and review basic business terminologies.

Sponsored by Trinity Biotech

Phlebotomy Workshop Session

#50 Laboratory Performance: Managing Preanalytical Variables in Venipuncture Collection (I) *Lorraine Tyndall MT(ASCP)MS* Managing Preanalytical Variables in Specimen Collection is an intermediate course intended for phlebotomists, laboratorians, nurses and other health-care professionals responsible for the collection, handling, processing and diagnostic testing of specimens in the clinical laboratory. The objective/goal of the program is to provide an understanding of the importance of factors that influence preanalytical variables in specimen collection, processing/handling and identify preanalytical sources of error and their impact. Focus will be placed on established guidelines, procedures and techniques for proper venipuncture, specimen collection, processing and handling. *Sponsored by BD Diagnostics*

#51 Leadership & Promoting a Strong Work Environment (I) *Jean Barry, PhD, RN* Laboratory professionals play a critical frontline leadership role. In order to fully enact this role, the work environment in which they practice must support them both professionally and personally. Evidence-based findings regarding essential work environment characteristics and the beliefs, values, and behaviors of successful frontline clinical leaders will be discussed.

#52 Coagulation Issues in Pregnancy (I) *Maude Guerin, MD* This session will address thrombophilia diagnosis and management in pregnancy.

#53 How to Approach POCT Training and Competency. *Lisa M. Moore, MT(ASCP)* This session will help to define training and competency assessment as it applies to point of care testing. Attendees will hear definition, ideas, and working models from a variety of sources to help in developing one's own training and competency assessment procedures and policies.



#54 Winning Resumes & Cover Letter Writing (B)

Cathy Rodger, District Manager, Kelly Scientific Resources Cathy Rodger, a degreed scientist and seasoned scientific recruitment specialist, will be speaking in regards to basic resume and cover letter writing. This session is geared towards all levels of job seekers who are looking to improve upon their professional resume.

Sponsored by Kelly Scientific Resources

Phlebotomy Workshop Session

#55 Let's Be Safe (B) *Ruthann Ciszewski, MS, MT (ASCP)* An overview of safe work practices for those who collect or handle blood specimens. Included will be a discussion of needle safety, hand hygiene as related to healthcare associated infections, and other work practice controls that reduce the risk of injury or infection.

#56 Molecular Methods in Microbiology (I) *Linoj Samuel, PhD, D(ABMM)* This session will give an overview of the different molecular methods and platforms currently available for infectious disease testing. It will also summarize the validation and quality control requirements for these assays and their role in patient care and management.

#57 Veterinary Hematology: A Menagerie of Case Studies (I) *Mike Scott, DVM* Human and veterinary hematology share many similarities, but there are also many differences in blood cells, cell responses, and common hematologic disorders. Whether to satisfy idle curiosity or a professional need, some of the major species differences will be discussed and highlighted through a series of short case studies.

#58 Calculated Glomerular Filtration Rate (I) *David Thorne, PhD, MT(ASCP)* This session will provide an overview of the methods used to calculate GFR. Emphasis will be on when a specific formula is most applicable.

#59 Bringing Molecular in House (B) *Cheryl Aslakson, PhD, D(ABMLI)* Molecular biology techniques in the clinical diagnostic laboratory have come of age made possible by automation and expanded test offerings. Space, turn around times, cost/reportable, reimbursement rates and availability of qualified personnel are several factors to consider when bringing molecular testing in-house. Relevant examples will be used to illustrate how to set-up molecular testing in your laboratory.

Phlebotomy Workshop Session

#60 Root Cause Analysis (I) *Dave Korcal, BS, ASCP* An in depth look at root cause analysis will be presented. This interactive session will outline the process using practical examples to examine the practice and advantages of resolving the root cause of nonconforming work.



Wednesday, April 14th

Time	Blood Bank	Microbiology	QC/Safety	Special Topic Cancer	Review Sessions	Exhibits	
7:30 - 4:00	Registration						
8:30 - 10:00	1. Bombay Phenotype Case Study	2. Difficult C.difficile	3. Lab Safety: It's Not Just for Specimens Anymore	4. PSA Screening: Indications & Controversies	5. Poster Presentations		
10:00 - 10:15	Break						
10:15 - 11:15	6. Keynote Address: Helping Build Laboratory Capacity in Africa & African AIDS Crisis						
11:15 - 12:30	7. Luncheon Address: Doctors Without Borders						
12:45- 1:45	8. Emergency & Massive Transfusion	9. Microarray Technology and Clinical Application	10. "Excel" ent Tips	11. Genome Sequencing & Human Medicine	12. Urinalysis Review		
1:45 - 3:15	BEAM Dessert Reception With Exhibitors						
3:15- 4:15	13. Integrating Automation in Blood Bank	14. Parasitology Review	15. Top 10 Inspection Deficiencies	16. The Cancer Cell	17. Coagulation Review		
4:30 - 5:30	MSCLS Awards Ceremony– All Attendees Invited						
5:45- 6:45	MSCLS Board of Directors Meeting						



Thursday, April 15th

Time	Generalist	Micro/Chem	Heme/Coag	Mgmt/Chem	Review Sessions	Exhibits	
7:30 - 4:00	Registration						
8:00 - 9:00	18. CLS Issues and Updates - Continental Breakfast						
9:15 - 10:15	19. Overview of Hemostatis & Thrombosis	20. Bio-Weapons with a focus on <i>B.anthraxis</i>	21. Hematology in the Elderly Population	22. Michigan OSHA Rights & Responsibilities	23. Making Clinical Correlations with Hematology Data	Exhibits Open	
10:15 - 11:00	Coffee Break with Exhibits						
11:00 - 12:00	24. Keynote Address: BOC Merger Update						
12:00 - 1:30	Lunch With Exhibitors				Student Forum		
1:30 - 2:30	25. Liver, Pancreas and the Lab	26. How HbA1C as a Screen Could Impact Your Lab	27. Those Bodacious Body Fluids	28. HIPPA Regulations Update	29. Chemistry Review		
2:30 - 2:45	Break						
2:45 - 3:45	30. Troubleshooting the Positive Antibody Screen	31. Vitamin D/ PTH	32. Review & Application of RBC Morphology	33. The Use of Cardiovascular Biomarkers	34. Blood Bank Review		
4:00 - 5:00	35. HbA1c: Points to Consider	36. Molecular Diagnostics: Revolution to Mainstream	37. Flow Cytometry	38. Networking Skills	39. Microbiology Review		
5:30 - 6:30	MSCLS Membership Meeting: All Attendees Invited						
6:30 - ?	Sparty Party: All Attendees Invited						

Friday, April 16th

Time	Molecular/ Mgmt	Heme/Coag	Chem/POC	Mgmt/Leader	Phlebotomy Workshop
7:30 - 2:30	Registration				
8:30 - 10:00	40. Keynote Address: East Meets West				
10:00 - 11:00	41. Pharmacogenomics	42. Erythropoiesis - A Modern View of Old Observations	43. Blood Glucose Monitoring Specificity and Sampling Impact on Patient Safety	44. Navigating the ins and outs of FMLA	45. Medical Terminology Review
11:00 - 11:15	Break				
11:15 - 12:15	46. Pharmacogenomics (Repeat Session)	47. How to Prepare for Certifying Exams	48. Tight Glycemic Control	49. Creating and Effective RFP for Instrumentation	50. Managing Pre-analytical Variables in Venipuncture
12:30 - 1:30	Lunch				
1:30 - 2:30	51. Leadership & Promoting a Strong Work Environment	52. Coagulation Issues in Pregnancy	53. POCT Training and Competency	54. Winning Resumes and Cover Letter Writing	55. Let's Be Safe
2:40 - 3:40	56. Molecular Methods in Microbiology	57. Veterinary Hematology	58. Calculated Glomerular Filtration Rate	59. Bringing Molecular in House	60. Root Cause Analysis

Session Handouts No printed session handouts will be available on-site. A CD containing some session literature will be distributed at the meeting. Some handouts may be available on the website (www.mscls.org) prior to the event.



