



2013
Northwest
Medical Laboratory
Symposium



AMERICAN SOCIETY FOR CLINICAL LABORATORY SCIENCE, REGION IX
ASCLS-WASHINGTON
ASCLS-OREGON

AMERICAN MEDICAL TECHNOLOGISTS, WESTERN DISTRICT
OREGON STATE SOCIETY OF AMERICAN MEDICAL TECHNOLOGISTS
NORTHWEST STATE SOCIETY OF AMERICAN MEDICAL TECHNOLOGISTS

Lynnwood Convention Center
Lynnwood, WA
October 16 - 19, 2013

Welcome to the 2013 Northwest Medical Laboratory Symposium

It won't be long until the leaves on the trees begin showing their glorious fall colors, the temperatures begin cooling off and the prime autumn opportunity for continuing medical laboratory education and professional networking is upon us. The NWMLS committee, composed of medical laboratory professionals from throughout the northwest, has once again planned a dynamic program. The American Society for Clinical Laboratory Science (ASCLS) and the American Medical Technologists (AMT) invite you to join us in Lynnwood, Washington for this year's Symposium October 16 – 19, 2013.

Our clients, patients, and colleagues in the allied health professions rightfully expect and deserve for us, as medical laboratory professionals, to maintain our professional credentials and competency. One means of doing this is to stay abreast of the latest developments in technology and testing. The NWMLS provides an excellent means of accomplishing this responsibility. Seminars covering topics in every aspect of laboratory medicine, from research to testing to management, are provided during this outstanding Symposium.

In addition to educational opportunities, you will not want to miss out on the chance to network with fellow laboratorians. This is your opportunity to gain refreshing encouragement from other medical laboratory professionals who are facing the same issues you face on a day-to-day basis.

The Exhibit Hall is not to be missed. This opportunity to meet laboratory industry vendors face-to-face and learn of the latest technological developments is always a highlight of the NWMLS. The industry representatives are available for you to visit with in a low intensity setting. They are happy to hear and respond to your questions. Please thank them for their continuing support of the NWMLS in the sponsorship of our speakers and breaks.

We extend a warm welcome to our Medical Laboratory Science students as they expand their knowledge, skills, and values in preparation to provide competent and ethical care. This is an excellent opportunity for you to develop a new awareness of the actual practice of clinical laboratory science and meet with scientists who are employed in many different areas and have many different roles that go beyond working in the hospital.

Please seriously consider this sincere invitation to join us at the Lynnwood Convention Center for this year's Symposium. We look forward to seeing you there.

Shellie Smith
Director, ASCLS Region IX

Kenneth Hawker
AMT Western District Councilor

The 2013 Northwest Medical Laboratory Symposium Program and registration form are available on the Internet at the following URL

www.asclswa.org/NWMLS.html

Updates and other information will be provided through this site.

2013 NWMLS At A Glance

Wednesday, October 16	AM	1	2	3	4
		Calibration Verification IQCP: Not Rocket Science	Lab Response Network Food Emergency Response Network	Cell Population Data	Myeloma Patients New Screening
	Exhibits: 11:45 AM – 2:15 PM				
	PM	5	6	7	8
		Managing Clinical Lab and Compliance with CLIA Regs	Clumsy Coag Communication Managing Hemostasis in Trauma	Antimicrobials Antibiotic Use & Drug Resistance	Extracorporeal Life Support (ECLS) Intro to the Burn Patient
Thursday, October 17	AM	9	10	11	12
		ANA & ANCA Testing in Automated Lab	Applications of Digital PCR Mass Spec for Micro Lab Testing Resource-Limited	Capillary Electrophoresis for Hgb Disorders and HbA1c	Coagulation & Anticoagulation
	Exhibits: 11:45 AM – 2:15 PM				
	PM	13	14	15	16
		Specify an Automated Monitoring System	Validation Studies in Coag	Validation of Molecular Tests MALDI-TOF Bact ID	HLA and Solid-Organ Transplantation
Friday, October 18	AM	17	18	19	20
		Mindfulness: New Approach to QA	Diagnosis of Red Cell Disorders	Liquid Chromatography Mass Spec	Tests in Autoimmune Lab
	Exhibits: 11:45 AM – 2:15 PM				
	PM	21	22	23	24
		Microscopy 101	Diagnostic Testing for Syphilis ANA Technology and Testing Algorithms	Training Plans for Lab Education, Training & Competency	Molecular Methods in Micro Micro of Being Tragically Hip
Saturday, October 19	AM	25	26	27	28
		Diagnosis of Thalasemias and Hemoglobinopathies	Micro of Forensic Pathology Rapid Diag Methods for Blood Cultures	Parasitology Case Studies	Specimen Collection Integrity Successful Venipuncture
	PM	29	30	31	31
		Hematologists Count	Affordable Care Act: Impacts, Trends, and Issues in 2014	Paper, Ruler, and Computer - Antibody ID in Blood Bank	Medical & Legal Issues Phlebotomy

Welcome to the 2013 Northwest Medical Lab Symposium

Here is some important information that you need to know!

To Register by Mail:

Complete the registration form and mail the registration form and check payable to

NWMLS to:

2013 Northwest Medical Laboratory Symposium
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203-1818

If questions:

Contact: BrenKoch@comcast.net (email contact is preferred)

Phone: 509-939-8445 (leave message) Call before 8 pm please.

- » **Postmark mailed registrations by October 1, 2013.** This assures that your form will be delivered in time for us to provide you with the handout access information.

To Register Online:

Go to www.asclswa.org and click on the **NWMLS** tab. Click on "Online Registration" to go to the online form. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by October 7, 2013 to receive lunch if eligible.
- **Lunch** is provide for those that register for two sessions on the same day. Lunch is not provided for those that register for one session a day or for those that register onsite.
- **Handouts** for all sessions will only be available online. Registrants will be sent the web address, username and password to access the handouts. Please print your email address clearly.
- **All sessions** are approved for P.A.C.E. and AMTrax credits.
- **Hotel reservations:** See the website for more detailed information. Please call the hotel for reservations. Mention "Northwest Medical Laboratory Symposium" to get the seminar rates. Rates will be available until October 1, 2013 after which it will revert to standard hotel rates.
- **No "NWMLS" Registration refunds** will be issued for non-attendance.
- **Fees are by session.** Each session is 3 hours (half day). Please register for the membership category that you qualify for. More information about fee categories are on the website at www.asclswa.org tab: NWMLS.

Registration Hours

Wednesday, Thursday, Friday
7:30 AM - 8:30 AM
1:30 PM - 2:15 PM

Saturday
7:30 AM - 8:30 AM
12:30 PM - 1:00 PM

Session Times

Wednesday, Thursday, Friday
8:30 AM - 11:45 AM
2:15 PM - 5:30 PM

Saturday
8:30 AM - 11:45 AM
1:00 PM - 4:15 PM

Lunch

Wednesday, Thursday, Friday
11:45 AM - 12:45 PM

Saturday
12:00 - 1:00 PM

Exhibit Hours

Wednesday, Thursday, Friday
11:45 AM - 2:15 PM

NWMLS Committee

General Chair	Leonard Kargacin Molly Morse
Program	Roxann Gary (Chair) Alma Allen Cyd Boyd Rachael Lamma Max Louzon
Exhibits	Brenda Kochis Linda Breiwick
Registration	Brenda Kochis Mi-Lim Kim
Program Design	Brenda Kochis
Finance	Shawna Martin
Moderators	Linda Wilkins
Hospitality	Linda Van Citters
Sponsors	Tracey Gardner
Webmaster	Brenda Kochis

ASCLS - Region IX

Regional Director Shellie Smith

Region IX Forum Friday, October 18, 2013
6:00 - 7:30 PM

ASCLS-OR

President	Heidi Smith
President Elect	Open
Secretary	Helen Wand
Treasurer	Krista Moore

ASCLS-OR Board Meeting
Friday, October 18, 2013 Follows Region IX Forum

ASCLS-Washington

President	Sigrid Reymond
President Elect	Terese Abreu
Secretary	Mi-Lim Kim
Treasurer	Shawna Martin
Past President	Marianne Strnad

ASCLS-WA Board Meeting
Friday, October 18, 2013 Follows Region IX Forum

CLSA

President	Holly Berg
President Elect	Scott Cox
Past President	Shannon Billings

Western District of American Medical Technologists Officers and Business Meetings

Western District Councillor Kenneth Hawker, MT(AMT)

OSSAMT

President	Marilyn Albertsen
Secretary	Audrienne Whitley
Treasurer	Edna Anderson
Past President	Louise Isbell

OSSAMT Business Meeting Friday, Oct 19, 6:00 pm

NWSSAMT

President	Jo Abraham
Secretary	Linda Wilkins
Treasurer	Roxanne Erskine

NWSSAMT Board Meeting and Business Meeting
Friday, Oct 19, 2012, 6:00 pm

Did You Know?

P.A.C.E. / AMTrax Contact Hours are available for attending the Exhibits. All you have to do is correctly answer 80% of the questions on a quiz that we give you before you go into the Exhibits. The answers to these questions are available at the various booths. And you don't have to rush, since the questions can be answered over more than one Exhibit session. Great way to earn 2.0 contact hours at no charge.

Lynnwood Convention Center



Lynnwood Convention Center

3711 196th Street SW
Lynnwood, WA 98036

Toll Free: 888-778-7155
Fax: 425-778-7965

Website: www.lynnwoodcc.com

The Lynnwood Convention Center has 600 free parking places. All sessions will be at the Convention Center. There is no charge for parking at the Lynnwood Convention Center.



DIRECTIONS FROM SEATTLE:

- Take I-5 North; Take Exit 181B (Alderwood Mall)
- Take left onto Poplar Way (first light)
- Take left onto 196th Street
- Drive West over the freeway, Convention Center is on the right.
- For the Alderwood Best Western Hotel, turn right onto 36th Avenue W (The Best Western Alderwood is on the left just North of the Lynnwood Convention Center.)

DIRECTIONS FROM EVERETT:

- Take I-5 South; Take Exit 181 West
- Drive West one block, Convention Center is on the right.
- For the Alderwood Best Western Hotel, turn right onto 36th Avenue W (The Best Western Alderwood is on the left just North of the Lynnwood Convention Center.)

DIRECTIONS FROM EASTSIDE/BELLEVUE

- Take I-405 Northbound
- Merge onto I-5 Southbound; Take Exit 181 West
- Drive West one block, Convention Center is on the right.
- For the Alderwood Best Western Hotel, turn right onto 36th Avenue W (The Best Western Alderwood is on the left just North of the Lynnwood Convention Center.)

Best Western Alderwood Hotel

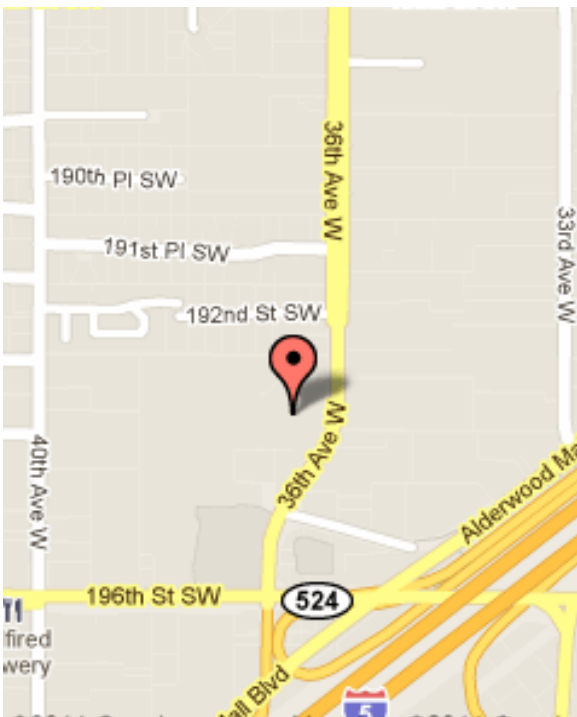


Hotel Information

Special group rates are available at the Best Western Alderwood Hotel through

October 1, 2013.

After that date, room rates will be at the discretion of the hotel. Please mention that you are with the Northwest Medical Laboratory Symposium when making your reservations by telephone at 425-775-7600.



Best Western Alderwood Hotel

19332 36th Ave W
Lynnwood, WA 98036
Phone: 425-775-7600
Fax: 425-771-3087

Website: <http://www.bestwesternwashington.com/hotels/best-western-alderwood/>

The Hotel will honor the following overnight room rates:

\$69.99 for single queen bed
\$74.99 for two queen beds

Hotel room rates are subject to applicable state and local taxes.

Reservations: Call the hotel at 1-800-205-6935 or 1-425-775-7600. You must request the Northwest Medical Laboratory Symposium group rate to obtain the listed room rate. The group rate will be honored until October 1, 2013.

There is no charge for parking at the Best Western Alderwood Hotel.

Wednesday, October 16, 2013

The Joys of Calibration Verification

**Session
1**

8:30 - 11:45 am
Intermediate
3 contact hours

- Mario Gastelum BS, Microbiology, MBA

Director of Sales - U.S.
Audit MicroControls, Inc.

This session will review the CLIA regulations as they pertain to Calibration Verification/Linearity. Session attendees will review the "How To's" of Calibration Verification, which will include learning about: the difference between Calibration and Calibration Verification, acceptable material, how to perform Cal Ver, and review troubleshooting guidelines.

Objectives:

- ✓ Define the difference between calibration and calibration verification,
- ✓ Describe how to perform a successful calibration verification, and
- ✓ Describe how to troubleshoot in the event that calibration verification fails.

Sponsor: Audit MicroControls

IQCP, Not Rocket Science!

- Francisca L. Lehr, MS, MT(ASCP)

CLIA Laboratory Surveyor & Consultant
Region X, CLIA Program

The speaker will discuss the newly published CLSI EP23 Laboratory Quality Control Based on Risk Management. This document is about developing individual quality control plans for a test system based on risk assessment (RA). The Centers for Medicare & Medicaid Service (CMS) calls CLSI EP23 "Individualized Quality Control Plans" (IQCP) which is a CMS alternative option for quality control. An IQCP has three parts: risk assessment, quality control plan, and risk assessment. This course focuses on a simple approach in understanding IQCP. The course includes an exercise in performing a risk assessment for a test and developing an IQCP.

Objectives:

- ✓ Describe IQCP,
- ✓ Discuss the three parts of an IQCP, and
- ✓ Discuss the five components of risk assessment.

Sponsor: Region X Survey & Certification of Centers for Medicare & Medicaid Services



The ability to meet face-to-face with other professionals to share ideas, is why the NWMLS matters and adds value over online CE.
.....Lisa (McDonnel) Klingler.....

✓

Wednesday, October 16, 2013

Session 2

8:30 - 11:45 am
Intermediate
3 contact hours

Sentinel Labs and the Laboratory Response Network

- **Denny Russell, BS Microbiology**

Bioterrorism Response Lead
WA Public Health Laboratories

This portion of the session will review the preparations that the Washington State Public Health Laboratories and the laboratory community have made to respond to bioterrorism events. It will provide an overview of the extent of training that has been done and will cover the responsibilities of sentinel laboratories when an agent of bioterrorism or a suspected agent is isolated.

Objectives:

- ✓ Describe the level of preparedness for Washington State,
- ✓ Describe how to proceed when an isolate is suspected of being an agent of bioterrorism, and
- ✓ Outline the notification procedures.

Sponsor: WA Public Health Laboratories

Food Emergency Response Network Overview

- **Brenna Jacobson, BS Microbiology**

FERN Training Coordinator
WA Public Health Laboratories

This session will provide an introduction to the Food Emergency Response Network (FERN) for clinical laboratorians who are unfamiliar with it. FERN organization, objectives, and activation events will be discussed.

Objectives:

- ✓ Describe FERN's mission and organization,
- ✓ Describe FERN member laboratories, and
- ✓ Discuss FERN activities during activation events.

Sponsor: WA Public Health Laboratories

Wednesday, October 16, 2013

<p>Session 3</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Everything You Ever Wanted to Know About Cell Population Data</p> <ul style="list-style-type: none">- Kathy Davidson Altig, BS, MT(ASCP) Hematology Field Product Specialist Beckman Coulter- Scott Dunbar, BS, MS CellaVision <p>This session will explain what Cell Population Data is, how it is collected, and how you can use it daily in your Hematology Lab to assist in more accurately identifying specific disease states. This session will cover how a laboratory can transform the differential bench by improving efficiency, proficiency, and connectivity in Hematology.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe what Cell Population Data is and how it is collected,✓ Identify diseases that can be indicated by CPD, and✓ Use CPD and Truth Tables to assist in writing Decision Rules that will make smear review more efficacious.✓ Explain how automation can improve the work flow in Hematology, and how artificial neural networks can emulate the expertise of an experience hematology specialist. <p style="text-align: right;">Sponsor: Beckman Coulter and Cellavision</p>
<p>Session 4</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Myeloma Patients: New Screening Updates for Improved Outcomes</p> <ul style="list-style-type: none">- Anne L Sherwood, PhD Director of Scientific Affairs The Binding Site, Inc <p>Patients with multiple myeloma (MM) and other monoclonal gammopathies often initially present with a myriad of non-specific symptoms. Traditional screening protocols miss a significant percent of patients with MM and related plasma cell disorders. The serum free light chain assay, Freelite™, is a highly specific, quantitative and fully automated approach to measure free lambda and kappa light chains in the serum and provides a sensitive indicator of patient status in the diagnosis, treatment and remission of Multiple Myeloma (MM) and other B-cell dyscrasias. Enhanced diagnostic capability has been demonstrated when sFLC testing is used in conjunction with SPEP and/or IFE. The International Myeloma Working Group (IMWG) and National Comprehensive Cancer The following topics will be discussed in this presentation:</p> <ul style="list-style-type: none">» The non-specific symptoms of myeloma & related plasma cell disorders that often confound a diagnosis.» Why it is easy to miss MM diagnoses.» An overview and evaluation of traditional screening protocols.» Recent developments in screening algorithms for suspected monoclonal gammopathies. <p>Objectives:</p> <ul style="list-style-type: none">✓ Identify the non-specific symptoms that often accompany multiple myeloma and other plasma cell disorders,✓ Explain why the traditional screening methods can miss the diagnosis of monoclonal gammopathies, and✓ Describe the use of serum free light chain analysis for screening, diagnosis and monitoring disease as outlined by guidelines from the International Myeloma Working Group (IMWG) and NCCN (National Comprehensive Cancer Network). <p style="text-align: right;">Sponsor: The Binding Site</p>

Wednesday, October 16, 2013

Don't Forget!
Visit the Exhibits
11:45 AM to 2:15 PM

**Session
5**

2:15 - 5:30 pm
Intermediate
3 contact hours

**Facing the Challenge of Managing the Clinical Laboratory
and Compliance with the CLIA Regulations - Understanding
Why We Do the Things We Do!**

- Lori Eschenbacher, BSMT (ASCP)

Laboratory Surveyor and Consultant
Department of Health/Laboratory Quality Assurance

Ever wonder why we need a QA plan or why we have to document everything that we do? "I don't understand why we need so much detail!" This session will help provide some answers to these questions and more. Whether you are a new manager, a department supervisor/lead, or a bench tech, this session is for you!! This session will focus on some of the basic CLIA requirements, challenges, and areas that managers and department supervisors face in managing the clinical laboratory. Under the global CLIA requirements governing clinical laboratories, the discussion will cover topics such as the Medical Test Site (MTS) licensing law, accrediting agencies, and their relationship to each other; licensing; policy and procedure development; quality assurance oversight; educational requirements; training, and competency assessment of the technical testing personnel; the survey process; proficiency testing; and other basic information. Questions and participant discussion is welcomed as time allows.

Objectives:

- ✓ List three components of a Quality Management Plan,
- ✓ Discuss how personnel training and competency testing fits into the QM plan, and
- ✓ Discuss the relationship of the QM plan to legal liability of the laboratory/institution.

Sponsor: Washington State DOH/Laboratory Quality Assurance

Wednesday, October 16, 2013

**Session
6**

2:15 - 5:30 pm
Intermediate
3 contact hours

Clumsy Coag Communication: Let's Blame The Lab

- George A. Fritsma MS, MLS

Proprietor
Fritsma Factor, Your Interactive Hemostasis Resource

With health care enhancements on their way, we've entered the age of "accountable care." We must achieve the best possible medical outcomes for the least resources. The laboratory is in the leading position; seventy percent of medical decisions are based upon laboratory data and account for only 2% of medical costs. Laboratory consultation will now improve on test ordering and on laboratory result interpretation. In coagulation, we'll have to clarify communication. Is it protein C, activated protein C, or C-reactive protein? Factor V or factor V Leiden mutation? Lupus anticoagulant or antiphospholipid antibody? What is a von Willebrand factor profile? What about short draws, hemolysis, and specimen clots? And how do we assist clinicians in the appropriate application of laboratory test results? This presentation provides a case-based review of ways that good pre- and post-analytical coag communication can prevent errors and enhance patient care.

Objectives:

- ✓ Identify and resolves hemostasis specimen collection errors,
- ✓ Provide hemostasis test order information, and
- ✓ Interprets hemostasis assay results.

Managing Hemostasis in Trauma

In the Afghan and Iraq wars medics learned new principles to guide the use of RBCs and plasma components to control the acute blood loss and coagulopathy associated with trauma. Since then, post-war studies demonstrate the effectiveness of fibrinolysis control, fibrinogen, activated prothrombin complex concentrates, and recombinant activated factor VII (NovoSeven). We will review the pathology of trauma and shock and illustrate how updated methods are saving lives in trauma and surgery.

Objectives:

- ✓ Illustrate the hemostasis components that are affected by acute blood loss,
- ✓ Review 21st century battlefield blood loss management techniques, and
- ✓ Provide laboratory and therapeutic support for the management of blood loss, trauma, and shock.

Sponsor: Diagnostica Stago



Seminar speakers have given me great "out of box" ideas to try."

Wednesday, October 16, 2013

Session 7

2:15 - 5:30 pm
Intermediate
3 contact hours

Antimicrobials

- Jeannie D. Chan, PharmD, MPH

Infectious Diseases/Antimicrobial Stewardship Pharmacist
Harborview Medical Center

This session will focus on the different classes of antimicrobials, spectrum of activities, basic pharmacokinetic profile, clinical indications, and common adverse effects.

Objectives:

- ✓ Outline the fundamentals of antimicrobials,
- ✓ Describe the common clinical indications of antimicrobials, and
- ✓ Describe the common adverse effects of antimicrobials

Antibiotic Use and Drug Resistance at the Bedside

- John Lynch, MD, MPH

Assistant Professor
University of Washington/Harborview Medical Center

This portion of the session will discuss the problem of antibiotic resistance, why it is happening, and how it is being addressed at the bedside.

Objectives:

- ✓ Describe antibiotic resistance,
- ✓ Explain how resistance affects patient care, and
- ✓ Describe what can be done to decrease antibiotic drug resistance.

Handouts

Handouts are only available online at www.asclswa.org. Several weeks before the Seminar, Registrants will receive an email from BrenKoch@comcast.net with session confirmations and instructions for accessing the handouts. Be sure to print them and bring them with you to the meeting. No handouts will be available onsite.

Wednesday, October 16, 2013

Session 8

2:15 - 5:30 pm
Intermediate
3 contact hours

Extracorporeal Life Support (ECLS)

- **Susanne M Matthews RN BSN CCRN**

CICU Charge Nurse/ ECMO Specialist & Seattle Children's Hospital Steering Committee Member
Seattle Children's Hospital

ECLS is a special procedure for cardiac and/or respiratory support that allows the sick or injured heart and/or lungs to rest and recover. An introduction to understanding the use of extra corporeal membrane oxygenation from the ECLS team at Seattle Children's hospital. Learn how your discipline contributes to the care & recovery of some of the sickest neonates, children and young adults in a four state region. Hospital for an introduction to ECLS (also called ECMO). This session will explore the applications of ECLS, support for these patients, and outcomes. ECLS has applications for all laboratorians as we support the monitoring of anticoagulants, provide blood products for transfusion support, and test drug and blood gas levels.

Objectives:

- ✓ Describe what ECLS is, how it works,
- ✓ State a diagnosis treated with ECLS and describe the potential risks of this therapy and their mitigation strategies, and
- ✓ Discuss examples of patient care scenarios & impact on families.

An Introduction to the Burn Injured Patient: A Little Girl's Story

- **Karen Stevenson RN,BSN**

Burn/Pediatric Intensive Care Unit
University of Washington Burn Center at Harborview

This talk touches on the basics of skin, burn injury, and treatment at a verified burn center. Included are the many services involved in providing care to critically injured burn patients, referencing frequent labs sent and implications of those. It also touches your heart, to share one toddler's journey through a very rocky course, and recovery.

Objectives:

- ✓ State the difference between depths of burn injury: superficial, partial thickness and full thickness,
- ✓ List three guideline criteria for transfer to a Burn Center, and
- ✓ Discuss why treating pediatric patients is NOT just treating small adults

Thursday, October 17, 2013

**Session
9**

8:30 - 11:45 am
Intermediate
3 contact hours

Antinuclear Antibody (ANA) and Antineutrophil Cytoplasmic Antibody (ANCA) Testing in the Automated Laboratory: The Challenge of Automation without Compromise

- Robert Boyes

Sr. VP/GM
Immuno Concepts

Laboratory methods for detection and identification of Antinuclear Antibodies (ANA's) and Antineutrophil Cytoplasmic Antibodies (ANCA's) are rapidly evolving. Manual methods utilizing indirect immunofluorescence (IFA) continue as the gold standard. Automated methods such as ELISA and addressable bead assays were once popular for ANA's but were plagued with concerns of incorrect results. Systems utilizing programmable slide processing combined with automated microscopy are now appearing in the laboratory. This educational program will provide a review of the methods currently available for detection of ANA and ANCA. Current guidelines for ANA testing continue to emphasize the significance of reporting the ANA pattern, therefore, substantial time will be devoted to viewing photos of ANA and ANCA patterns. A review of the clinical significance of these antibodies will be included. The academic level of the material will be intermediate to advanced, however, those who are new to the field or unfamiliar with newer methods will benefit from the discussions of methods and new technologies.

Objectives:

- ✓ Compare and contrast testing methods for ANA and ANCA,
- ✓ Identify ANA and ANCA IFA patterns, and
- ✓ Discuss the clinical significance of ANA's and ANCA's.

Sponsor: Immuno Concepts

Schedule Note for Thursday

Visit the Exhibits

11:45 AM to 2:15 PM

Tres Donnes of Laboratory Science

**Session
10**

8:30 - 11:45 am
Intermediate
3 contact hours

Applications of Digital PCR in the Clinical Laboratory

- Tanis Dingle, PhD

Clinical Microbiology Fellow
University of Washington Medical Center

This seminar will cover the current uses of digital PCR in the clinical laboratory, as well as detail new data showing that digital PCR is more tolerant to inhibitors than real-time quantitative PCR.

Objectives

- ✓ Describe digital PCR technology,
- ✓ Describe the advantages and disadvantages of digital PCR, and
- ✓ Explain the number of applications it has in the clinical laboratory.

Note: session title and description change for portion of session to be presented by Dr Dingle from original title of Nationwide Fungal Meningitis Outbreak.

Mass Spectrometry for Microbiology

- Cheryl Mather, MD

Resident, Anatomical and Clinical Pathology
University of Washington

Mass spectrometry is quickly becoming an integral part of bacterial and fungal identification in the clinical microbiology laboratory. This high tech but relatively user friendly technology will likely soon become the primary tool for bacterial identification in larger labs, and may even be used to track nosocomial outbreaks, arrange organisms according to phylogeny, and identify antibiotic resistance.

Objectives:

- ✓ Explain the basic theory behind MALDI-TOF MS,
- ✓ Discuss the challenges associated with mass spectrometric identification of Gram positive bacteria, Gram negative bacteria, fungi, and mycobacteria, and
- ✓ Describe three benefits associated with using MS as a primary tool in the clinical microbiology laboratory.

Challenges to Providing Laboratory Testing in Resource-limited Settings

- Emily Glynn, MD

Resident
University of Washington

Accurate laboratory testing is required to provide optimal care on a patient and population level. While there has been a focus on improving accessibility to treatment modalities in resource limited settings, there has not been a parallel emphasis on improving the quality of laboratory testing. Providing accurate laboratory testing is currently hindered by infrastructure limitations, the level of laboratory personnel training, and the relative absence of internal and external quality assurance programs. The aim of this session is to discuss these barriers as well as potential accreditation solutions that may be implemented in resource limited setting, with a focus on sub-Saharan Africa, to improve the overall quality of test performance and results.

Objectives:

- ✓ List two advantages of having access to quality laboratory results in the diagnosis and treatment of malaria,
- ✓ Name at least three barriers to achieving and maintaining laboratory accreditation in resource-limited settings, and
- ✓ Discuss how the WHO Regional Office for Africa (WHO-AFRO) program facilitates laboratory accreditation in resource limited settings?

Thursday, October 17, 2013

<p>Session 11</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Capillary Electrophoresis for Detecting Hemoglobin Disorders and Measuring Hb A1c</p> <p>- Aigars Brants, PhD Scientific Affairs Manager Sebia, Inc.</p> <p>Principles of hemoglobin capillary electrophoresis will be discussed. Capillary electrophoresis will be compared to more conventional methods used for Hb variant separation (HPLC, gel electrophoresis). Both alpha- and beta-chain variants and various thalassemias detected using capillary electrophoresis will be reviewed and discussed. Hb A1c and its importance in diagnosing/monitoring diabetes will be presented. The principles of methodologies currently used to measure Hb A1c will be described and compared to the reference methods. The performances of CAPILLARYS in measuring Hb A1c will be reviewed in detail.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Discuss the Identification of Hemoglobinopathies and Thalassemias with Capillary Electrophoresis,✓ Discuss What is Being Measured with Current HbA1c Techniques, and✓ Describe Capillary HbA1c. <p style="text-align: right;">Sponsor: Sebia, Inc.</p>
<p>Session 12</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Coagulation and Anticoagulation Through the Ages</p> <p>- Chris Ferrell, MT(ASCP) Special Coagulation Lead Harborview Medical Center</p> <p>Coagulation like many other systems in the body is in delicate balance. As a result every factor in the body involved in clot formation has an inhibitor to either prevent coagulation or to control the rate of propagation of the clot. Once the clot is formed there are proteins that break down the clot and the inhibitors to those proteins. This session will give an overview of coagulation as our knowledge has evolved over time from beginning to end and the laboratory tests used to monitor all the steps in this process. The other portion of this session will review anticoagulants as they have evolved over time. We will focus on the current anticoagulants in use and learn how to recognize their effect on the routine coagulation tests and discuss monitoring.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Discuss the role of protein C and S in the protein C pathway,✓ Discuss the role of plasmin in fibrinolysis, and✓ Recognize pattern of a direct thrombin inhibitor on routine coag screen.

Don't Forget!
Visit the Exhibits
11:45 AM to 2:15 PM

Thursday, October 17, 2013

<p>Session 13</p> <p>2:15 - 5:30 pm Intermediate 3 contact hours</p>	<p style="text-align: center;">How to Specify an Automated Monitoring System</p> <p>- Michael Satterlund Western Region Director Rees Scientific</p> <p style="text-align: center;">Cancelled</p> <p>This session is intended to give some basic guidelines for defining an Automated Monitoring System for use in gathering information, comparing features and benefits among vendors, and soliciting bids for such a system. It helps, when comparing pricing, to know that one is comparing “apples-to-apples” while making sure that the system will do the necessary tasks.”</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe a system for the purposes of gathering information about the kinds of systems available, and their individual features and benefits,✓ Use basic criteria to evaluate the systems and prices proposed by a variety of vendors, and✓ Describe a system to the Purchasing Department, so that they are able to buy exactly the kind of system needed to do the job properly. <p style="text-align: right;">Sponsor: Rees Scientific</p>
<p>Session 14</p> <p>2:15 - 5:30 pm Intermediate 3 contact hours</p>	<p style="text-align: center;">Validation Studies and Other Important Stuff for the Coagulation Laboratory</p> <p>- Chris Ferrell, MT(ASCP) Special Coagulation Lead Harborview Medical Center</p> <p>Suddenly the CAP questions for coagulation have gone from about four questions to forty pages. Yikes! We will discuss what you need to do in your lab to comply with all the new regulations. Even if you only do protime, PTT, fibrinogen and D-Dimer in your lab, you should come to this session. How do I validate a new lot of protime reagent? What’s an AMR and what should I do to validate it? These questions and more will be answered in this session. We will also review the utility and interpretation of the 1:1 mix along with an update on lupus anticoagulant testing.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Validate a new lot of protime or PTT reagent,✓ Perform calibration verification or AMR for a fibrinogen assay, and✓ Recognize the difference between an inhibitor and deficiency on a 1:1 mix.

**Session
15**

2:15 - 5:30 pm
Intermediate
3 contact hours

MALDI-TOF Rapid Bacterial Identification & Saving Lives in the Clinical Laboratory!

- Rosemary Martin (M)ASCP

Microbiology Supervisor
Seattle Children's

The program looks at using next generation technology-MALDI-TOF coupled with Lean and Industrial Engineering principles to design a new, faster workflow system in microbiology. We will discuss validation of MALDI-TOF as well as the methods we used for designing, creating and implementing a new workflow system. Management topics include project management, change management, and ways to sustain the change. Our experience with gains in quality of patient care will be discussed with examples.

Objectives:

- ✓ Describe a new workflow system in microbiology using MALDI-TOF as the primary identification system,
- ✓ Identify institutional gains possible when using Lean and Industrial Engineering, and
- ✓ Describe the importance and challenges of sustaining change.

Validation of Laboratory Developed Molecular Tests (LDT) to Meet Quality Standards

- Anne Marie Buccat, MS MT(ASCP)

Supervisor of Cystic Fibrosis Microbiology
Seattle Children's

This session reviews validation of new tests by sharing practical examples of LDTs developed at Seattle Children's Hospital, Molecular Microbiology.

Objectives:

- ✓ Provide a summary of the technical validation plan for MALDI-TOF (LDT)),
- ✓ Describe the importance of good bacterial collections in retrospective and prospective validation studies, and
- ✓ Describe factors associated with low identification scores.



Thursday, October 17, 2013

Session 16

2:15 - 5:30 pm
Intermediate
3 contact hours

HLA and Solid-Organ Transplantation

- **Paul R. Warner, PhD, D(ABHI)**
Co-Director, Immunogenetics Laboratory
Puget Sound Blood Center
- **Mohamed Elrefaei, MD PhD**
Assistant Director-Immunogenetics/HLA
Puget Sound Blood Center
- **Nicolae Leca, MD**
Associate Professor of Medicine, Medical Director Kidney and
Pancreas Transplant Program
University of Washington Medical Center

This session will provide an introduction to HLA/histocompatibility testing, the normal role of HLA in immune function, how HLA testing is used to support solid-organ transplantation, and solid-organ transplantation from the clinician's perspective.

Objectives:

- ✓ Briefly describe the Human Leukocyte Antigen (HLA) system,
- ✓ Describe how/why HLA testing is used to support solid-organ transplantation, and
- ✓ Describe some of the challenges associated with managing patients receiving solid-organ transplants.

Quick Check?

Is your Exhibits Exam done? Great way to earn 2.0 contact hours in P.A.C.E. and AMTrax.

Last chance to visit the Exhibits is Friday.

Why attend the Exhibits?

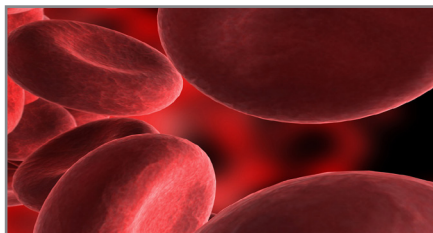
Unique opportunity to find out what is new and of value to your laboratory services.

Schedule Note for Friday Visit the Exhibits

11:45 AM to 2:15 PM
Last Chance

Friday, October 18, 2013

<p>Session 17</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Mindfulness: A New Approach to Quality Assurance?</p> <p>- Benjamin Briggs, MLS (ASCP) Medical Laboratory Scientist Mid Columbia Medical Center</p> <p>Increasingly, organizations across the country are promoting mindful practices among employees. This session will be an exploration and discussion of how this ancient practice might be used as a new approach to quality in your laboratory.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Define "mindfulness in the laboratory",✓ Define specific tools to promote mindfulness in the laboratory, and✓ Explore the possible benefits and drawbacks of institutionalized mindfulness. <p>Sponsor: North Puget Sound Society for Clinical Laboratory Science</p>
<p>Session 18</p> <p>8:30 - 11:45 am Advanced 3 contact hours</p>	<p>Laboratory Diagnosis of Red Cell Disorders</p> <p>- Daniel E. Sabath, MD, PhD Associate Professor and Hematology Division Head Department of Laboratory Medicine University of Washington School of Medicine</p> <p>This session will provide an overview of the diagnosis of red cell disorders including thalassemias, hemoglobinopathies, and other inherited red cell defects. Included will be the molecular pathology of red cell disorders, the diagnostic techniques used to make diagnoses, and clinical and genetic counseling implications. A number of interesting cases will be presented to illustrate how diagnoses are made.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe the pathophysiology of various inherited red cell disorders,✓ Describe the use of various laboratory methodologies in making the diagnosis of red cell disorders, and✓ Determine the clinical implications of various red cell disorders.



Friday, October 18, 2013

<p>Session 19</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Introduction to Liquid Chromatography Mass Spectrometry</p> <p>- Devin Keller Technical MS Specialist AB SCIEX</p> <p>Part 1: The use of Liquid Chromatography Mass Spectrometry (LC/MS/MS) is becoming more prevalent in clinical laboratories throughout the world. This is a powerful analytical tool that can perform qualitative and quantitative identification for the laboratory. This workshop will provide an introduction to commonly used liquid chromatography and mass spectrometry techniques in the clinical laboratory.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe the components that make up an LC/MS/MS system,✓ Contrast common configurations of mass spectrometry systems utilized in clinical laboratories,✓ Define the terminology associated with both chromatography and mass spectrometry, and✓ Summarize the theory behind mass spectrometry techniques. <p>- Crystal Holt, MS Applied Market Specialist AB SCIEX</p> <p>Part 2: This lecture will focus on the current state-of-the-art techniques used by researchers in the field of pain management and steroid hormone monitoring using LC/MS/MS.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Explain the improvements in specificity and sensitivity afforded by LC/MS/MS,✓ Describe the workflow associated with pain management and steroid hormone monitoring, and✓ Evaluate whether LC/MS/MS is an appropriate technique for your research laboratory. <p style="text-align: right;">Sponsor: AB SCIEX</p>
<p>Session 20</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>New Tests in the Autoimmune Laboratory</p> <p>- Susan S. Copple M.S., MT(ASCP)SI Technical Training Manager</p> <p>- Carl Schroder MT(ASCP) MPA IFA Technical Sale Manager INOVA Diagnostics, Inc.</p> <p>This session includes updates and information for new tests in the autoimmune laboratory such as Anti-phospholipid syndrome and testing for APS antibodies, and Celiac disease, 'the great chameleon'. We will examine the significance of DSF70 for ANA HEP-2 testing and discuss new markers to aid in diagnosis and disease monitoring. A case study will also be presented.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ List the basic autoimmune disease categories,✓ Describe what Anti-phospholipid syndrome (APS) is and relate to the significance of the syndrome, how the laboratory can aid in diagnosis of APS and how aPS/PT fits in, and✓ Describe the significance of NMDA R, describe Celiac disease and have an overview of how the laboratory can aid in diagnosis and disease monitoring <p style="text-align: right;">Sponsor: INOVA Diagnostics</p>

» **Check your schedule. Time to visit the Exhibits. Lots of great information!**

<p>Session 21</p> <p>2:15 - 5:30 pm Intermediate 3 contact hours</p>	<p style="text-align: center;">Microscopy 101</p> <p>- Brian May Sales Engineer JH Technologies</p> <p>This session includes an overview on microscope technique, function and preventative maintenance tips.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Discuss microscope techniques and options,✓ Describe maintenance techniques for optics by the user, and✓ Describe imaging components for today's microscopy. <p style="text-align: right;">Sponsor: Pacific Microsystems</p>
<p>Session 22</p> <p>2:15 - 4:30 pm Intermediate 3 contact hours</p>	<p style="text-align: center;">New Developments in Diagnostic Testing for Syphilis</p> <p>- David Tomichak, MBA, MT(ASCP) Western US Immunochemistry Manager BioRad Laboratories</p> <p>This session reviews Syphilis testing in the Clinical Laboratory and summarizes the major Non-Treponemal and Treponemal tests. It discusses two different testing algorithms: the Traditional Approach and the Reverse Testing Algorithm; and looks at the relative advantages and disadvantages of each paradigm.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Summarize the major Non-Treponemal and Treponemal tests and their limitations,✓ Describe the two Syphilis Laboratory testing algorithms, and✓ Explain the interpretations of the various test results generated by these two testing algorithms. <p style="text-align: center;">Choosing the Correct Antinuclear Antibody (ANA) Technology and Testing Algorithms for your Laboratory</p> <p>In an overall review of systemic autoimmune disease, we will look at the IFA, Multiplexing and EIA. We review the disease processes, and looks at different methodologies for this type of testing: the good, the bad and the ugly. Methods of ANA testing will be covered along with presenting potential ANA testing algorithms.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Identify the 3 methods of ANA testing: the advantages and disadvantages of each method✓ Discuss potential ANA testing algorithms from a laboratory and a physician perspective. <p style="text-align: right;">Sponsor: Bio-Rad Laboratories</p>

Friday, October 18, 2013

Session 23

2:15 - 5:30 pm
Intermediate
3 contact hours

Training Plans for the Laboratory

- Gene Heresa, MAED, MT(ASCP)SBB

Director of Training and Records
Puget Sound Blood Center

During this session, the participant will obtain knowledge on the importance of a well-developed training plan and its application in a laboratory setting. The participants will learn about the basic elements in designing a training plan and the benefits of a training plan.

Objectives:

- ✓ Describe the importance and benefits of a training plan,
- ✓ Identify the key elements of a well-designed training plan, and
- ✓ Identify the application of a training plan in a laboratory setting.

Education, Training, and Competency: On a Quest for the Holy Grail

- Linda S. Barnes MHA, RAC

Chief Quality Officer
Puget Sound Blood Center

Today's laboratory places significant demands on adult learners who are required to satisfy educational requirements, complete training, and demonstrate competency in pre-analytical, analytical, and post-analytical skills. This program will focus on the expanded competency assessments described in the CLIA Brochure #10 (December 2012) and how to successfully integrate the objectives into diverse environments.

Objectives:

- ✓ Evaluate the needs of today's adult learner,
- ✓ Compare the goals of education, training, and competency assessment, and
- ✓ Apply CLIA Brochure #10 in diverse environments.



Friday, October 18, 2013

**Session
24**

2:15 - 5:30 pm
Intermediate
3 contact hours

From DNA to Diagnosis: Molecular Methods in Microbiology

- Daniel Hoogestraat, MB (ASCP)

Lead Technologist, Molecular Microbiology
University of Washington Department of Laboratory Medicine

This session will review current methods for identification and detection of microorganisms using DNA-sequence based techniques, as applied by the University of Washington Molecular Microbiology Lab. Specific examples of diagnoses facilitated by a molecular result will be presented, along with a look at potential future applications.

Objectives:

- ✓ Describe advantages and limitations of molecular approaches in microbiology,
- ✓ Outline the definition of a 'universal' PCR assay, and
- ✓ List at least two molecular techniques used in molecular diagnosis.

The Microbiology of Being Tragically Hip

- Tom Smith, M(ASCP), SM(ASCP)

Clinical Technologist Lead
Harborview Medical Center - University of Washington

This portion of the session will discuss novel infections involving the expanding spectrum of Gram positive rods from Actinomyces to Mycobacteria.

Objectives:

- ✓ Identify potential new pathogens in unique clinical presentations,
- ✓ Discuss the significance for treatment and patient outcome of characterizing these pathogens, and
- ✓ Emphasize the need for communication between laboratory and clinicians.



Handouts

Handouts are only available online at www.asclswa.org. Several weeks before the Seminar, registrants will receive an email from BrenKoch@comcast.net with session confirmations and instructions for accessing the handouts. Be sure to print them and bring them with you to the meeting. No handouts will be available onsite.

Saturday, October 19, 2013

Session 25

8:30 - 11:45 am
Intermediate
3 contact hours

Laboratory Diagnosis of Thalassemias and Hemoglobinopathies

- Archana M Agarwal, MD

Assistant Professor, Department of Pathology
ARUP Laboratories

Hemoglobinopathies are a group of common, inherited disorders of hemoglobin resulting in either the synthesis of structurally abnormal globin subunits or a reduced synthesis of structurally normal globin subunits. They are among the most common genetic disease, with 7% of the world's population carrying a hemoglobin mutation. This presentation will review the pathophysiology of common hemoglobinopathies, different diagnostic tests available for most common hemoglobinopathies and recent advances in the field. It will also discuss briefly the clinical course of the common disorders. At the end few case examples will be given.

Update in Red Blood Cell Membrane Disorders

Hemolytic anemias due to abnormalities of the erythrocyte membrane comprise an important group of inherited disorders. These include hereditary spherocytosis (HS), hereditary elliptocytosis (HE) and hereditary pyropoikilocytosis (HPP). These disorders are characterized by clinical, laboratory and genetic heterogeneity. HS is the most common inherited anemia in individuals of northern American descent affecting approximately 1 in 1000-2500 individuals depending on the diagnostic criteria. The clinical heterogeneity of these disorders range from in-utero transfusion of blood to well compensated anemia. This presentation will address the different types of RBC membrane disorders. Pathophysiology, diagnostic techniques and upcoming newer technologies will also be covered.

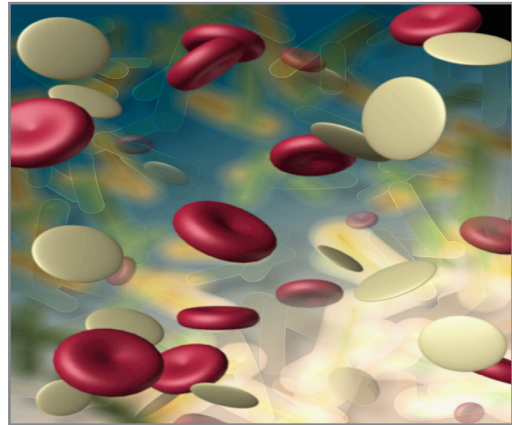
Objectives:

- ✓ Identify cases of hemoglobinopathies, thalassemias and RBC membrane defects,
- ✓ Discuss the appropriate tests and to correlate the results of laboratory testing with specific thalassemias, hemoglobinopathies and spcific RBC membrane defects, and
- ✓ Describe the principles of different technologies used for the diagnosis of thalassemias and RBC membrane defects.

Sponsor: ARUP

I really value exchanging information with those who attend seminars from all over the region and also appreciated the real spectrum of attendees - from students in the local Medical Technology program just getting started, to people who have been in the field for years and are looking for new ideas for their laboratories and/or to brush up on their skills, to a laboratorian developing next-generation diagnostic methods at a local biotechnology company.

.....Lisa (McDonnel) Klingler.....



**Session
26**

8:30 - 11:45 am
Intermediate
3 contact hours

The Microbiology of Forensic Pathology

- **Carl Wigren, MD**
Wigren Forensic PLLC

Have you ever wondered what happens to us after we die? What sorts of microbes are responsible for decay of the body? And how that decay can be interpreted by a forensic pathologist to figure out the time of death? The first part of this session will answer those questions for you and leave you hungry for more. The second part of the session will focus on the importance of microbiology in the determination of cause and manner of death. Participants will see how an autopsy is performed and how cultures are collected in the dead. The third part of the session will discuss cases with findings that masqueraded as infectious. But as it turns out, things are not always what they seem in the forensic pathologist's morgue.

Objectives:

- ✓ Describe the biology of decomposition,
- ✓ Discuss the importance of postmortem microbiology in determining the cause of death, and
- ✓ Outline the medicolegal implications of bacteria and viruses.

Bigger, Stronger, Faster?: An Evaluation of Three Rapid Diagnostic Methods to Directly Identify Microorganisms from Positive Blood Cultures

- **Susan Butler-Wu, PhD, D(ABMM)**
Assistant Professor, Department of Laboratory Medicine
University of Washington

A recently completed study will be discussed that examines the performance of three commercially available systems for the identification of microorganisms directly from positive blood cultures. The performance of these assays, as well as their general characteristics, will be discussed.

Objectives:

- ✓ Describe the need for improved diagnostic methods for rapid identification of blood-stream infections (BSI's),
- ✓ Discuss the utility of direct from blood culture identification methodologies, and
- ✓ Describe the advantages and limitations associated with direct from blood culture identification methodologies.

Sponsor for this portion: AdvanDX

Saturday, October 19, 2013

<p>Session 27</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p style="text-align: center;">Case Presentations in Parasitology</p> <p>- Gottfried Schmer, MD/MPH/MTM Emeritus Prof., Lab Medicine/Medicine University of Washington</p> <p>The speaker will present a series of case studies. For each case, a case history of a patient is described, followed by the differential diagnosis. We will discuss how laboratory tests lead to diagnosis, including pitfalls. Numerous pictures will be provided, giving a visual impression of the problem.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Discuss the basics of a particular parasitic disease,✓ Describe the application of the correct laboratory tests to make the diagnosis, and✓ Outline the pitfalls and the shortcomings of the tests.
<p>Session 28</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p style="text-align: center;">Specimen Collection Integrity</p> <p>- Simone Terrell, NHA,CPT Phlebotomy Instructor Renton Technical College</p> <p>This session will discuss adhering to ethical knowledge of specimen collection and integrity, by utilizing industry standards and protocol of facility. We will discuss reporting potential pre-analytical errors that occurred during collection upon timely delivery of blood samples.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Explain the principle behind each special collection procedures, identify steps, special supplies and/or equipment,✓ List importance of examples of blood collections and describe how to properly collect and handle them, and✓ Explain the importance of timing; blood cultures, peak and trough collections and aliquoting specimens. <p style="text-align: center;">Back to Basics: Tips for Successful Venipunctures</p> <p>- Erika Ferreri (MAED, BS, CPI, CPT), Tenured Faculty/Phlebotomy Director, Edmonds Community College</p> <p>This is an interactive workshop that will revisit the fundamentals of blood drawing, introduce advanced techniques for challenging blood draws, and address the participant's individual areas of concern as it relates to their own blood drawing skills.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe basic techniques included in drawing blood, and potential outcomes that may occur if these techniques are omitted or not done correctly,✓ Critically think through challenging blood draws to increase the chances of a successful blood draw, and✓ Identify ideas of improvement within their own practice and potential solutions addressing those areas.

Saturday, October 19, 2013

Session 29

1:00 - 4:15 pm
Intermediate
3 contact hours

Hematologists Count!

- **Kara Hansen-Suchy M.Ed. MT(ASCP)SH**

MT Program Director
University of Washington

Have you ever had trouble identifying immature hematopoietic nucleated cells? Identification can be a subjective matter. Learn some 'tricks' to help you feel more confident in your skill set to identify those 'BUM' (big ugly mother) cells and have some fun at the same time.

Objectives:

- ✓ Describe and utilize the 'CRAPS' method to identify hematopoietic cells,
- ✓ Create a method, designed by yourself to facilitate identification, and
- ✓ Draw the maturation sequence of all the hematopoietic cell lines.



Session 30

1:00 - 4:15 pm
Intermediate
3 contact hours

Affordable Care Act: Impacts, Trends, and Issues in 2014

- **Phil Dyer, CIC**

Senior Vice President, Healthcare Management Services
Kibble & Prentice

- **Todd Miller**

Vice President, Employee Benefits Division
Kibble & Prentice

The Affordable Care Act of 2014/2015 is upon us and is a frequent topic in the news and in board rooms and break rooms. This session will present a contextual briefing and discussion of the employer impact and the Washington Health Benefit Exchange. We will also explore the expected impacts and issues affecting the health care delivery system. Everyone is impacted in some way by this legislation so come for a timely discussion of "Obama Care".

Objectives:

- ✓ List 3 aspects of the Affordable Care Act 2014,
- ✓ Define the Health Benefit Exchange, and
- ✓ Discuss the expected impact of health care delivery following implementation of the ACA.

Sponsor: Kibble & Prentice

Saturday, October 19, 2013

<p>Session 31</p> <p>1:00 - 4:15 pm Intermediate 3 contact hours</p>	<p>Paper, Ruler, and Computer - Basic Antibody ID in the Blood Bank</p> <ul style="list-style-type: none">- Roxann Gary, MT(ASCP) SBB- Nina Sen, BB(ASCP), CT Lead Harborview Medical Center Transfusion Services Laboratory <p>Join us for an informal, hands-on session of basic antibody identification. We will take up our rulers and pencils as we solve the mystery of a patient's unexpected positive antibody detection test in a hospital blood bank. The session will also include a demonstration of an on-line antibody identification software. Come and join the fun as a needed CE session, refresher for your job, or a chance to see the computer wrestle with antibody identification problems.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Identify four steps to successful identification of antibodies.✓ Perform a rule-out process on an antibody identification pane.✓ Apply additional antibody identification tools in order to resolve problems.✓ Evaluate the success of on-line computer software for antibody identification. <p style="text-align: right;">Sponsor: RC-Aid</p>
<p>Session 32</p> <p>1:00 - 4:15 pm Intermediate 3 contact hours</p>	<p>Medical and Legal Issues in Phlebotomy</p> <ul style="list-style-type: none">- Kathleen Finnegan MS MT(ASCP)SH Clinical Associate Professor Stony Brook University <p>Health care workers who collect blood must be trained properly in all areas of phlebotomy. Phlebotomy is an invasive procedure. Healthcare workers that perform phlebotomy incorrectly can and will be held legally accountable for their skills. This presentation will review guidelines to avoid lawsuits, describe situations that may have legal ramifications and discuss the legal aspects associated with phlebotomy procedures.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Define malpractice, negligence, and review how to avoid legal issues,✓ Discuss the standard of care and phlebotomy guidelines to follow, and✓ Describe the type of phlebotomy errors that may be a potential law suit. <p style="text-align: right;">Sponsor: Greiner Bio-One</p>

SPONSORS



The 2013 Northwest Medical Laboratory Symposium would like to extend its sincere thanks for the following companies and organizations for their support.

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Washington State Dept of Health Public Health Laboratories

EXHIBITORS & EXHIBIT HALL INFORMATION

The leading manufacturers and distributors will once again gather in the Exhibit Hall at the Lynnwood Convention Center to display their wares. This will be the 31th year they have participated in the Northwest Medical Laboratory Symposium to provide access for Clinical Laboratorians to the newest products and to demonstrate the ability for aiding in the diagnosis and health care of the public. In addition, Siemens Healthcare Diagnostics and Beckman Coulter will be bringing their demonstration vans to display their larger pieces of equipment.

The vendors and their representatives are an integral part of our meeting and provide sponsorship for the continuing education sessions and other activities during this meeting. It is with the help and support from the laboratory supply companies that a volunteer group of individuals from the professional societies are able to arrange this Symposium.

As laboratory professionals, you do not have to register for the Symposium in order to view the displays in the Exhibit Hall. When you come to the Exhibit Hall, sign in on the log sheets and pick up a name tag and join the Committee in thanking the vendors for their support. The following companies have registered for space. For the latest information, please visit the vendor websites. Links may be found at www.asclswa.org, tab NWMLS, click on "2013 NWMLS Exhibitors".

Abbott Diagnostics

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INOVA Diagnostics, Inc.

Instrumentation Laboratory

LabReach

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Mindray Medical

Olympus Corporation of the Americas

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Roche

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Sebia

Sekisui Diagnostics

Siemens Healthcare Diagnostics

Stago

Sysmex America, Inc.

TELCOR, Inc.

Thermo Scientific

VWR International

WSLH PT

EXHIBIT HOURS

Wednesday, October 16	Exhibit Opening	11:45 AM – 2:15 PM
Thursday, October 17		11:45 AM – 2:15 PM
Friday, October 18	Exhibit Closing	11:45 AM – 2:15 PM

EXHIBITOR PRODUCT LIST

Check the website, www.asclswa.org/Exhibits.html, for links to each company's website

For Exhibit Information: Contact Brenda Kochis, Email: BrenKoch@comcast.net

Abbott Diagnostics: Architect System, CellDyn Hematology, Laboratory Automation Solution, Information Management- Informatics
Advanced Instruments, Inc.
AdvanDx: QuickFISH
Alere: EPOC Blood Analysis System, Triage, RALS-Alere Informatics, Rapid Enterics Test
Alexion Pharmaceuticals: Soliris (eculizumab)
ARKRAY: AUTION HYBRID AU-4050, AUTION MAX AX-4030, iSED
ARUP Laboratories: Laboratory Testing Services
Audit MicroControls, Inc.: MicroLQ Glycohemoglobin Control Bi-Level (K067M-8), Urine/Fluids Chemistry Linearity Set (K723M-5), Procalcitonin Linearity Set for the bioMérieux VIDAS and mini VIDAS (K842M-5) & for the BRAHMS KRYPTOR (K844M-5), Serum Protein Control (K074M-6)
Beckman Coulter: AU480/680, DxH800, Iris, Automate 1250
Becton Dickinson-BD
Biopacific Diagnostic Corp: Homocysteine Reagent (Axis-Shield LTD) for Clinical Chemistry Analyzers; Homocysteine Reagent (Diazyme Labs) for Clinical Chemistry Analyzers; Lithium by enzymatic assay
Bio-Rad Laboratories, Inc.: GS HIV Combo Ag/Ab EIA / 4th Generation HIV testing Immunology Lab; Seralone™ immunohematology reagents & automation/ TANGO™ Blood Bank lab; Bio-Plex™ 2200 / Automated, random access, multiplex testing Immunology, Chemistry; Unity Real Time® / Quality Control Informatics
BioFire Diagnostics: Film Array, Respiratory Panel, Blood Culture ID
The Binding Site: SPAplus
Cardinal Health: Laboratory Products, Pathfast Cardiac Analyzer, Optifreight, Cardinal HealthbrandDiaSorin, Inc
Cepheid: GeneXpert, Infinity 80 & 48, Systems & Solutions Lean, Xpert CT/NG & other
EMD Millipore: Water Purification
Fisher Healthcare: Sharing booth with Horiba ABX, Tosho Bioscience, Meridian Diagnostic and Phadia Diagnostic
GenMark Diagnostics: eSensor XT-8 Multiplex Molecular Diagnostics System - intuitive touch-screen user interface; easy-to-interpret, customizable reports; and no routine maintenance or instrument calibration.; Respiratory Viral Panel (IVD) - provides sensitive and specific respiratory virus detection and subtyping with an optimized workflow to maximize laboratory efficiency; Additional tests that are FDA cleared for IVD use: Cystic Fibrosis Genotyping Test, Thrombophilia Risk Test, and Warfarin Sensitivity Test.
Global Focus Marketing and Distribution, Ltd. (The Immuno Concepts and Silencer Centrifuge Company): AFT Image Navigator (Start to Chart total automation of Gold Standard ANA)
Greiner Bio-One: Vacuette Tubes, Vacuette Visio Needle, Vacuette Safety Blood Collection Set, Vacuette Tube Touch
Grifols USA, LLC: Specialization in benchtop automation for ELISA & Agarose Gel Electrophoresis, Triturus Immunoanalyzer & Reagents, Infectious Disease, AutoImmune, Immunochemistry, Interlab G26 Agarose Gel Agarose Gel System & Reagents, Direct Technical/Applications/Customer Service/National Call Center (West Coast)
Hardy Diagnostics: Carrot Broth, PYR Test Kit, Mycovue, Hemocue America: Hb201 DM Analyzer, Glucose 201DM analyzer
Hemocue America: Hb201 DM Analyzer, Glucose 201DM Analyzer
Hemosure, Inc.: IFOB
Immunodiagnostic Systems, Inc.: iSYS Immunoassay System
INOVA Diagnostics, Inc.: BIO-FLASH, NOVA View, QUANTA-Lyser, QUANTA Link
Instrumentation Laboratory: ACL TOP 300 CTS, GEM 4000
LabReach: Medical Logistics, STAT Delivery Service, Route Coverage, Scheduled and UnScheduled, Route Planning
Mindray North America: BS-200, BC-3200
Olympus Corporation of the Americas: BX43, DP21
Pacific Microsystems LLC: Full line of Leica clinical microscopes, Leica digital cameras for microscopes
Quest Diagnostics: Will be showcasing all Quest Diagnostics Business Lines to include: Neurology, Cardiovascular, Cancer Diagnostics and Women's Health, Panorama Prenatal Test, Cardio IQ, AML; Breast Cancer
RC-AID: Red Cell Antibody Identification software
Rees Scientific: Environmental Monitoring
Roche: Roche cobas 6000 analyzer series, Roche modular Pre-Analytical System, Roche cobas 4000 analyzer series, Roche p 512 Task Targeted Automation
Scientific Supply & Equipment, Inc.: Nikon Instruments, Vista Labs
Sebia: HbA1c, Protein Electrophoresis
Sekisui Diagnostics: Trichomonas, Bacterial Vaginatis, Strep, Flu
Siemens Healthcare Diagnostics: Chemistry and ImmunoAssay solutions, Hematology, Coagulation, Urinalysis and Microbiology solutions, Point of Care - Blood Gas & Stratus CS, Stago: Compact Max, QAP Program, 24 Hours Stability, Coag Controls
Stago: COMPACT Max, QAP Program, 24 hrs stability, Coag Controls
Sysmex America, Inc: Hematology Products, XN Products
Thermo Scientific: Thermo Scientific Quality Controls and TDM Immunoassays
TELCOR Inc: QML® Point-of-Care Data Management and Connectivity Solution, WebMRE® Point-of-Care Manual Result Entry Solution
VWR INTERNATIONAL: Laboratory Solutions for Distribution Services, Point of Care
WSLH PT: Wisconsin State Laboratory of Hygiene Proficiency Testing, On-line training and Competency

Registration General Information

To Register by Mail:

Complete the registration form and mail the registration form and check payable to **NWMLS** to:

2013 Northwest Medical Laboratory Symposium
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203-1818

If questions:

Contact: BrenKoch@comcast.net (email contact is preferred)

Phone: 509-939-8445 (leave message) Call before 8 pm please.

- » **Registration mail postmark by date: October 1, 2013.** This assures that your form will be delivered in time for us to provide you with the handout access information.

To Register Online:

Go to www.asclswa.org and click on the **NWMLS** tab. Click on “Online Registration” to go to the online form. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by October 7, 2013 to receive lunch if eligible.
- **Lunch** is provided for those that register for two sessions on the same day. Lunch is not provided for those that register for one session a day or for those that register onsite.
- **Handouts** for all sessions will only be available online. Registrants will be sent the web address, username and password to access the handouts. Please print your email address clearly.
- **All sessions** are approved for P.A.C.E. and AMTrax credits.
- **Hotel reservations:** See the website for more detailed information. Please call the hotel for reservations. Mention “Northwest Medical Laboratory Symposium” to get the seminar rates. Rates will be available until October 1, 2013 after which it will revert to standard hotel rates.
- **No “NWMLS” Registration refunds** will be issued for non-attendance. A substitution of another person can be made at any time.
- **Fees are by session.** Each session is 3 hours (half day). Please register for the membership category that you qualify for. More information about fee categories are on the website at www.asclswa.org tab: NWMLS.

Special Member Registration Rates

Any person currently a member in good standing of the following organizations can qualify for special member registration rates for the meeting:

- AABB (American Association of Blood Banks)
- AACC (American Association for Clinical Chemistry)
- ASC (American Society of Cytology)
- ASCP (American Society of Clinical Pathologists)
Laboratory Professional Membership Category

NOTE: Certification only through ASCP

does NOT qualify you for “Special Member” rates.

- ASCT (American Society for Cytotechnology)
- ASH (American Society of Hematology)
- ASM (American Society of Microbiology)
- CLMA (Clinical Laboratory Management Association)

Registration Form

2013 Northwest Medical
Laboratory Symposium
October 16 - 19, 2013
Lynnwood, WA

*Online registration and credit card payment is available
at www.asclswa.org/NWMLS.html
or
Mail this form with a check.*

First Name _____ Last Name _____
 Address _____
 City/State/Zip _____
 Day Phone _____ Evening Phone _____
 Institution _____
 City/State _____
 Email Address _____

Are you willing to serve as a moderator? Yes No

Check here if you do *not* want your name and email provided to the Exhibitors _____

**Circle the sessions
you will be attending.**

Wednesday Oct 16	AM	1	2	3	4
	PM	5	6	7	8
Thursday, Oct 17	AM	9	10	11	12
	PM	13	14	15	16
Friday, Oct 18	AM	17	18	19	20
	PM	21	22	23	24
Saturday, Oct 19	AM	25	26	27	28
	PM	29	30	31	32

Category	# Sessions	Fee/session	Total Fee
ASCLS/AMT Professional/Technical		\$55.00	\$
ASCLS # _____ AMT # _____			
Special Member		\$70.00	\$
___AABB ___AACC ___ASC ___ASCT ___CLMA ___ASM ___ASH ___ASCP Member number _____			
Non-Member		\$85.00	\$
Phlebotomist		\$35.00	\$
Student		\$25.00	\$
Total Fee			\$

Mail with check to
2013 NWMLS
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203

Full payment in U.S. Dollars must accompany each mailed in
 registration. Make check payable to **NWMLS**
 Mail by October 1 to assure timely arrival

OR

Online registration with credit card payment is available at
www.asclswa.org/NWMLS.html

Special Notes

General Information

Casual dress is appropriate for all sessions. There will be no smoking in any of the sessions.

Cell phones must be turned off during the sessions.

Your name badge is required for admission to all sessions and to the Exhibit Hall. Please wear your name badge at all times.

Comments from past seminar attendees

Knowledgeable, interactive, fun, good speakers, takes lots of questions. Enjoyed and learned a lot.

Really enjoyed this. Love the enthusiasm and passion for the topic. Very interesting and exciting.

Great speaker, lots of new info. Updates. These are the kinds of speakers we need. They explain current and new information. Speaker provided many helpful examples.

Meeting Room Assignments

The session room assignments will be printed on the session sheet in your registration packet. A floor plan will be available at the registration desk.

Message Center

A message board will be maintained at the registration desk for Emergency messages. The phone number Lynnwood Convention Center is 888-778-7155.

Cell phone for the registration chair is 509-939-8445. Please leave a message if not answered.

Updates

Updates will be posted on the website at www.asclswa.org

Please check for session updates and or cancellation information.

P.A.C.E.[®] / AMTrax

P.A.C.E.[®] and AMTrax credits have been approved for all appropriate sessions.

ASCLS-WA is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.[®] program. ASCLS-WA will use CE Organizer for documentation of continuing education credits. Please make note of the P.A.C.E.[®] number and of the session number that will be given to attendees in each session after the session break. Without this information, the attendee will not be able to obtain their electronic certificate.

NWSSAMT is the approved provider for AMTrax CECs and insures that these educational presentations confirm to standards established by AMTrax.

Handouts ONLY Available On-line

To keep registration rates as low as possible, the Northwest Medical Laboratory Symposium will no longer provide copies of the session handouts on-site at the meeting. Session handouts will be available for download at the ASCLS-WA website (<http://www.asclswa.org>). Click on the "NWMLS" tab. Remember to print copies of the handouts for the sessions for which you registered and bring them to the meeting with you. **No handouts will be provided onsite.** If you are having problems downloading the handout, please contact Brenda Kochis, BrenKoch@comcast.net.

Handouts for the sessions will be available on the ASCLS-WA website approximately 2 weeks prior to the meeting in a password protected area. You will receive the "password" and instructions on how to print the handouts approximately 2 weeks before the meeting. The email will be from BrenKoch@comcast.net, so watch for it. Register early so that you can print the handout material for your sessions. Handouts will NOT be provided for those that register onsite. If you plan to register onsite, please contact Brenda Kochis at BrenKoch@comcast.net for information re handout access.

