

Education, Exhibits, Networking



2014 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

**Holiday Inn, Portland Airport
Portland, OR
October 1 - 4, 2014**

Welcome to the 2014 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 Portland, Oregon for this year's Symposium October 1 – 4, 2014.

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.

Shannon Billings
Director, ASCLS Region IX

Kenneth Hawker
AMT Western District Councilor

***The 2014 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.***

2014 NWMLS At A Glance

Wednesday, October 1	AM	1	2	3	4
	8:30 - 11:45 AM	Point of Care Testing	PNH, Aplastic Anemia, and MDS	Breast and Prostate Tumor Markers Tumor Markers in Clinical Practice	Molecular Testing "Changing the Game"
	Exhibits: 11:45 AM – 2:15 PM				
	PM	5	6	7	8
	2:15 - 5:30 PM	Lean in Healthcare	Anticoagulation	Eval Cardiovascular Risk Role of Troponin and Natriuretic Peptides	Infectious Respiratory Diseases
Thursday, October 2	AM	9	10	11	12
	8:30 - 11:45 AM	Evolution of Celiac Disease HIV Update	Lab's Role in Pain Management Workplace Drug Testing	Diagnosis of Anemia Diagnosis & Testing for AML	Infectious Enteric Diseases & Current State of Syphilis Testing
	Exhibits: 11:45 AM – 2:15 PM				
	PM	13	14	15	16
	2:15 - 5:30 PM	Laboratory Utilization	Genetics of Myeloid Malignancies	IFA Fundamentals and New Findings Workshop	Light Chain Assays in Multiple Myeloma
Friday, October 3	AM	17	18	19	20
	8:30 - 11:45 AM	Biosafety	Clinical Correlations Using Data and Morphology Bodacious Body Fluids	Transfusion Medicine: Back to Future Case Studies in Transfusion Medicine	Risk Assessment Tools to Develop Your IQCP
	Exhibits: 11:45 AM – 2:15 PM				
	PM	21	22	23	24
	2:15 - 5:30 PM	Mindfulness: New Approach to QA	Making the Grade: Benchmarks for Lab Preceptors	Serologic Testing of HSV, Treponema and EBV Infections	Intro to Prenatal Testing
Saturday, October 4	AM	25	26	27	28
	8:30 - 11:45 AM	Marrow Failure Syndromes	Division 6.2 Packing and Shipping	Emergent/Re-Emergent Diseases: Q Fever and Chikungunya	Basics of Compatibility Testing Changing Face of Massive Transfusions
	PM	29	30	31	31
	1:00 - 4:15 PM	Influencing Others Thru Power Dynamic	Public Health Action for CRE Foodborne Outbreaks Healthcare-Associated Infections Outbreaks	Blood Bank Testing Problems, Innovations and Alternatives	Hemostasis in 2014 and Beyond

Welcome to the 2014 Northwest Medical Lab Symposium

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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

Exhibit Hours

Wednesday, Thursday, Friday	11:45 AM - 2:15 PM
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Wednesday, Thursday, Friday	11:45 AM - 12:45 PM
Saturday	12:00 - 1:00 PM

Earn 2.0 P.A.C.E. / AMTrax contact hours at no charge!

Obtain the exam in your registration packet or from the exhibit registration desk. Questions can be answered at the various booths in the Exhibit Hall over the three days. You can earn 2.0 contact hours of P.A.C.E. or AMTrax credit by successfully completing the exam. Turn in the exam at the Exhibits desk for grading and you will receive the session code. Plan to earn these extra CE hours!

NWMLS Committee

General Chair	Leonard Kargacin
Program	Leonard Kargacin(Chair) Susan Beard Cara Calvo Maja Chloupkova Jerri Ramirez Peregrina Roberson Helen Wand
Exhibits	Brenda Kochis
Registration	Edna Anderson Audrey Whitley Brenda Kochis
Program Design	Brenda Kochis
Finance	Mary-Helen Carroll
AudioVisual	Kelly Morse
Moderators	Louise Isbell
P.A.C.E.	Emily Barbur
AMTrax	Louise Isbell
Hospitality	Marilyn Albertson
Sponsors	Ana Sacramento
Webmaster	Brenda Kochis

ASCLS - Region IX

Regional Director Shannon Billings

Region IX Forum Friday, October 3, 2014
6:00 - 7:30 PM

ASCLS-OR

President	Maja Chloupkova
President Elect	Cara Calvo
Secretary	Jerri Ramirez
Treasurer	Krista Moore
Past President	Heidi Smith

ASCLS-OR Board Meeting

Friday, October 3, 2014 Follows Region IX Forum

ASCLS-Washington

President	Terese Abreu
President Elect	Leslie Nakagawa
Secretary	Mi-Lim Kim
Treasurer	Shawna Martin
Past President	Sigrid Raymond

ASCLS-WA Board Meeting

Friday, October 3, 2014 Follows Region IX Forum

CLSA

President	Scott Cox
President Elect	
Past President	Holly Berg

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

Thursday, Oct 2, 6:00 pm

Friday, Oct 3, 6:00 pm

NWSSAMT

President	Jo Abraham
Secretary	Danielle Rathbun
Treasurer	Roxanne Erskine

NWSSAMT Board Meeting and Business Meeting

Friday, Oct 3, 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!

Holiday Inn, Portland Airport



HOLIDAY INN
PORTLAND AIRPORT
8439 NE Columbia Blvd,
Portland, OR (503) 256-5000

Exhibit Hall
Columbia Conference Center
near the Holiday Inn, Portland Airport

The Hotel will honor the following overnight room rates:

**\$95 for single/quadruple occupancy
plus lodging tax**

To make a reservation, there are two options:

- Call the hotel at 503-256-5000 or toll free at 855-642-6271 and ask for the **NW Medical Laboratory group rate** to obtain the conference rates.
- Register on the website. The web address is www.hiportlandairport.com and the group code is NWM to obtain the group rates
- Note that these rates are only available until September 9, 2014. After that the hotel reserves the right to charge their standard rate.



Holiday Inn and Columbia Conference Center



From the South:

Take I-5 North to I-84 East to I-205 North (Portland Airport/Seattle exit 8) to Exit 23B (US 30 West By Pass/ Columbia Blvd). Turn right at the end of the exit, stay in the right lane. Just before the second traffic light turn right onto NE Columbia Blvd.

From South of Wilsonville:

Take I-5 North to I-205 North to Exit 23B (US30 West By Pass/Columbia Blvd.). Turn right at the end of the exit; stay in the right lane. Just before the second traffic light turn right onto NE Columbia Blvd.

From the North:

Take I-5 South to I-84 East to I-205 North (Portland Airport/Seattle exit) to Exit 23B (US 30 West By Pass/ Columbia Blvd.) Turn right at the end of the exit; stay in the right lane. Just before the second traffic light turn right onto NE Columbia Blvd.

From North of Vancouver, WA:

Take I-5 South to I-205 South to Exit 23B (US 30 West By Pass/Columbia Blvd.) Turn right at the end of the exit. Just before the traffic light turn right onto NE Columbia Blvd.

From the West:

Take US 26 East to I-84 East to I-205 North (Portland Airport/Seattle exit) to Exit 23B (US 30 West By Pass/ Columbia Blvd.) Turn right at the end of the exit; stay in the right lane. Just before the second traffic light turn right onto NE Columbia Blvd.

From the East:

Take I-84 West to Exit 9 (Seattle/Portland Airport) to I-205 North to Exit 23B (US 30 West By Pass/Columbia Blvd.) Turn right at the end of the exit; stay in the right lane. Just before the second traffic light turn right onto NE Columbia Blvd.

Airport Shuttle

The Holiday Inn Portland Airport provides complimentary airport shuttle service 24 hours a day, on demand. In the Baggage Claim area, call the hotel. Then walk from the Baggage Claim outside to Area 4 where the shuttle should arrive in 10 to 15 minutes after your call.

The Role of Point of Care Testing

**Session
1**

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

- Mark F. Roller, MT(ASCP)

Point of Care Coordinator
Salem Health
Salem, OR

Continued technological advances have revolutionized many of our clinical practices, including how laboratory tests are performed and by whom. With diagnostic analysis now protruding beyond the walls of the traditional laboratory, it is crucial that expertise and quality not be sacrificed simply for quicker turn-around-times. Is it possible to produce rapid test results in a clinically responsible and cost effective manner? The direct involvement of laboratory scientists in the growth and implementation of point of care testing is necessary to ensure that the high standards patients and practitioners have come to expect from laboratory medicine are not lost in point of care practices.

Objectives:

- ✓ Describe the scope and impact of POC testing,
- ✓ Describe the risks and benefits associated with POC testing, and
- ✓ Discuss future implications of POC testing and how it may influence laboratory practices.

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.....



**Session
2**

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

**Paroxysmal Nocturnal Hemoglobinuria, Aplastic Anemia,
and Myelodysplastic Syndromes: Clinical and Laboratory
Tools for Appropriate Classification**

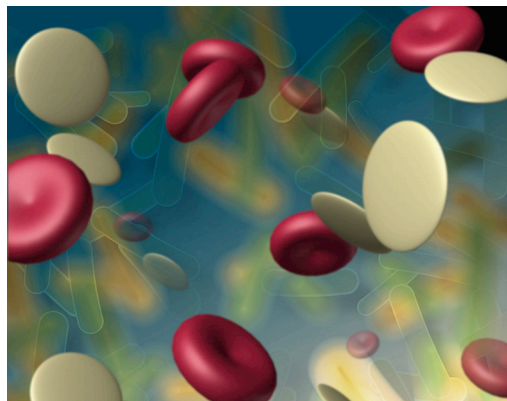
- Michael Cascio, MD

Assistant Professor
Oregon Health & Science University
Portland, OR

This clinical case-based session will review the common clinical and pathologic features of paroxysmal nocturnal hemoglobinuria (PNH), aplastic anemia, and myelodysplastic syndromes (MDS). Since these entities can have overlapping clinical and laboratory presentations, an emphasis will be placed on integrating clinical data and the morphologic evaluation of the peripheral blood and bone marrow in arriving at the correct clinicopathologic diagnosis. The utility of ancillary studies (flow cytometry, fluorescence in situ hybridization, and cytogenetics) will be reviewed in the context of each entity with an emphasis on characteristics that can help separate these entities.

Objectives:

- ✓ Describe clinical and pathologic features of PNH, aplastic anemia, and myelodysplastic syndromes (MDS),
- ✓ Describe the basics of and how to appropriately apply common ancillary testing methodologies (flow cytometry, fluorescence in situ hybridization, and cytogenetics) for correct classification, and
- ✓ Discuss the therapeutic and prognostic importance in distinguishing these entities.



**Session
3**

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

Clinical Utility of Tumor Markers in the Management of Breast and Prostate Cancer

- **Monet N. Sayegh, MD**
Senior Medical/Clinical Consultant
Siemens Healthcare
Los Angeles, CA

Biomarkers play a useful role in the diagnosis and treatment of cancer. The use of PSA, along with a digital rectal exam, can detect prostate cancer as much as 5-10 years earlier than a digital rectal exam alone. However, the current PSA test is limited in both sensitivity and specificity, resulting in both missed cancers and unnecessary biopsies. This seminar discusses the current utility of PSA testing, along with newer methods to improve specificity and sensitivity, including ratio testing with free to total PSA, 3rd Gen PSA, and direct detection of the complexed PSA isoform. The role of HER-2/neu in the diagnosis and monitoring of breast cancer is also reviewed, including tests that utilize either tissue or serum samples.

Objectives:

- ✓ Describe the role PSA plays in the diagnosis and monitoring of prostate cancer,
- ✓ Discuss the value that ratios and isoforms can play in improving PSA testing, and
- ✓ Describe the HER2/neu protein in breast cancer and the value of both tissue and serum based HER2/neu tests.

Sponsor: Siemens Healthcare Diagnostics

Discovery, Development, and Utilization of Tumor Markers in Clinical Practice

- **Pratistha Ranjitkar, PhD**
Clinical Chemistry Fellow
University of Washington
Seattle, WA

With significant advances in modern era instrumentation and a deeper understanding of biological processes, tumor markers have become a thriving area of research and testing in clinical chemistry. Tumor markers are measurable substances that have multi-dimensional clinical uses ranging from screening, diagnosis and prognosis, to monitoring cancer. The process of marker discovery to clinical implementation is often lengthy, challenging, and abound with stipulations. This seminar will start with a brief overview of tumor markers currently in clinical use, move onto the emerging methods for discovering tumor markers, and describe the steps involved in implementing those discoveries into a clinical setting. Finally, we will conclude with the caveats associated with marker sensitivity and specificity that affect clinical care.

Objectives:

- ✓ Define the types of tumor markers and their potential multi-faceted role in disease management and care,
- ✓ Identify emerging technologies in discovering tumor markers and the process of clinical implementation, and
- ✓ Describe the advantages and disadvantages of tumor marker use in a clinical setting.

Wednesday, October 1, 2014

**Session
4**

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

Molecular Testing: “Changing the Game”

- Rob Vanderwood, BS, RRT, RCP

System and Solutions Manager US
Cepheid
West Haven, UT

“Changing The Game” reviews the new strategies for early diagnosis, management, pharmaceutical stewardship, and patient satisfaction for Hospital Acquired Infections (HAI). Participants will advance their knowledge in key areas that include: risk factors for delayed response, empiric treatment, isolation strategies, ED risk, bed management, need for quicker turnaround times (TAT) in today’s healthcare culture, etc. We will also examine how new technology will increase productivity. A basic knowledge of HAI management is suggested to benefit from this presentation, but is not essential.

Objectives:

- ✓ Recognize and ask why the need for a quicker TAT for critical testing is critically important,
- ✓ Review the ripple effect the testing has on the clinical setting and on multiple departments, and
- ✓ Educate the audience in today’s healthcare reform changes that drive a more efficient lab.

Sponsor: Cepheid

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

Get free 2.0 hours P.A.C.E. by completing an exam at the Exhibit Hall

Wednesday, October 1, 2014

Session 5

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

Introduction to Lean in Healthcare

- **Toni Shields, MBA, PHR**

Manager, Kaizen Promotion Office & Project Management Office
Salem Health
Salem, OR

The Lean Management System has been associated with manufacturing and automobile production. However, in recent years Lean has been implemented in the healthcare industry. This session will provide foundational knowledge about Lean principles and practices in healthcare and will specifically describe one hospital's approach to Lean transformation. The session will include examples of how the Lean System is used in the Laboratory setting. Lecture, visuals and/or video and interactive learning activities will be featured.

Objectives:

- ✓ Provide a brief overview of the Lean Management System,
- ✓ Describe different foundational Lean fundamentals used at one hospital, and
- ✓ Explain examples of how Lean can be used in a Clinical Laboratory.

Session 6

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

Anticoagulation: Then, Now, and the Future

- **Christine Daniele BS, MT(ASCP)**

Advance Technical Service

- **Claudia Escobar MT(ASCP)SH**

Product Manager

Diagnostica Stago, Inc
Parsippany, NJ

The presentation will discuss the reasons unfractionated heparin and coumadin therapy must be monitored for the best patient outcomes. Data and articles will be presented which show the benefits of monitoring unfractionated heparin therapy with the Heparin Assay rather than the APTT test. The latest drugs to be FDA cleared for anticoagulation therapy will be discussed. This discussion will include the mode of action, characteristics for each drug and tests that can be used to measure the level of these new drugs. A case study will showcase the importance of being able to determine a level for these new drugs.

Objectives:

- ✓ Describe why unfractionated heparin and coumadin therapy need to be monitored,
- ✓ Discuss the benefits of monitoring unfractionated heparin with the Heparin Assay (Anti-Xa levels) compared to the APTT, and
- ✓ Describe the mode of action for the new drugs on the market and what is driving this change.

Sponsor: Diagnostica Stago, Inc.

**Session
7**

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

Evaluating Cardiovascular Risk

- Sheng-Ying (Margaret) Lo, PhD

Clinical Chemistry Fellow
University of Washington
Seattle, WA

Cardiovascular disease is the leading cause of death in the United States, with roughly 635,000 Americans experiencing their first heart attack each year. As a result, early detection and prevention of cardiovascular disease is at the forefront of public health policy. This seminar will cover recent guidelines on evaluating cardiovascular risk and the role of lipoproteins as biomarkers in coronary heart diseases.

Objectives:

- ✓ Discuss cardiovascular risk guidelines and the pathology of atherosclerosis,
- ✓ Describe lipoprotein physiology and its clinical utility as a biomarker in coronary heart diseases, and
- ✓ Discuss pharmaceutical interventions aimed at reducing cardiovascular risk by changing lipidomic profiles.

The Value of Sensitive Troponin and Natriuretic Peptides in Management of ACS & HF

- Monet N. Sayegh, MD

Senior Medical/Clinical Consultant
Siemens Healthcare
Los Angeles, CA

Cardiac biomarkers are critical to the proper triage and treatment of patients presenting with heart failure (HF) or acute coronary syndrome (ACS). This seminar reviews the current clinical utility of BNP, NT-proBNP, cardiac troponin, including patient management and biomarkers diagnostic and prognostic applications.

Objectives:

- ✓ Describe the utility of BNP and NT-proBNP in managing both HF and ACS,
- ✓ Describe the diagnostic and prognostic role of cardiac troponin in ACS patients, and
- ✓ Describe why cardiac troponin is the preferred biomarker for diagnosing an acute myocardial infarction.

Sponsor: Siemens Healthcare Diagnostics



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

**Session
8**

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

Infectious Respiratory Diseases

- Norman Moore, PhD

Director of Scientific Affairs
Alere
Scarborough, ME

The US averages 37 million visits to physicians and emergency departments each year for respiratory infections. There are 3-5 million cases of community-acquired pneumonia and an additional 250,000 to 350,000 cases of healthcare associated pneumonia. Different age groups are more prone to particular pathogens than others. Meanwhile, influenza is responsible for an additional 200,000 hospitalizations and 36,000 deaths in the US per year. This talk will discuss the various respiratory pathogens, diagnostic options available, and how influenza can predispose people to a subsequent pneumococcal infection.

Objectives:

- ✓ Discuss the etiological agents for pneumonia and which age groups are most prone to the infection,
- ✓ Describe the clinical samples and diagnostic testing methods recommended for community-acquired pneumonia and influenza, and
- ✓ Describe the mechanisms how influenza can lead to pneumonia.

Sponsor: Alere

Exhibits

Did you get to see all the companies in the Exhibit Hall?
More chances Thursday and Friday.

Don't forget to work on your Exhibit Hall Exam. A great
opportunity to earn 2.0 contact hours for your effort!

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.

**Session
9**

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

Evolution of Celiac Disease

- David J Tomichek, MBA, MT(ASCP)

Western US Immunochemistry Manager
Bio-Rad Laboratories
Benicia, CA

In recent years, there has been an increase in the diagnosis of Celiac Disease. It is important to understand the role of gluten in this disease manifestation and to identify the optimal tests to aid in the diagnosis. Additionally, choosing the right testing algorithm can simplify the process of diagnosing the disease.

Objectives:

- ✓ Define gluten and its' role in Celiac Disease,
- ✓ Distinguish between the different tests associated with Celiac disease, and
- ✓ Apply the appropriate testing algorithm for the diagnosis of disease.

HIV Update - Assays and Algorithms

- Greg Stewart

Sr. Product Manager
Bio-Rad Laboratories
Benicia, CA

This presentation provides an update on the history and current status of HIV testing. Information will be shared on guidelines for HIV testing and the reasons behind why new guidelines have been given. It will also look at the position of HIV testing from a national perspective.

Objectives:

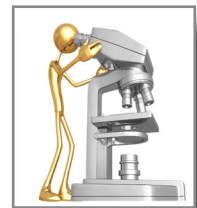
- ✓ Describe the different types of HIV screening tests,
- ✓ Explain the specifics of the HIV testing algorithm, and
- ✓ Describe the changes in attitude toward HIV testing.

Sponsor: Bio-Rad Laboratories

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!



**Session
10**

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

The Laboratory's Role in Pain Management

- David K Roberts, PhD

Manager and Responsible Person
Legacy Laboratory Services, MetroLab / Toxicology
Portland, OR

In the US today, pain relief is the most common driver for seeking medical care. Pain management has evolved from a rare speciality that began in earnest in the 1970s to a common practice today. Many of the drugs that are prescribed for pain relief are DEA controlled opioids which have high abuse and diversion potential. This problem has grown to the point that today in Oregon, deaths from opioid misuse now exceeds automobile fatalities. Laboratory testing now plays a critical role in helping physicians assess pain medication compliance. Pain medication compliance testing represents a significant challenge for laboratories as it is quite different from emergency room or workplace drugs of abuse testing.

Objectives:

- ✓ Describe basic concepts of pain and the treatment options,
- ✓ Discuss pain medication compliance testing and how it compares to drug testing for an Emergency Department or workplace client, and
- ✓ Describe the basic aspects of interpreting pain medication compliance results.

Workplace Drug Testing in the US: Past, Present, and Future

- Greg Grinstead, PhD

Scientific Director, Toxicology Laboratory
Legacy Laboratory Services
Portland, OR

This session will review the history and basic features of the Federal Workplace Urine Drug Testing Program, which has existed since the mid 1980s and remains the basis for all workplace drug testing programs in North America. We'll cover the evolution and changes to the laboratory and regulatory aspects of the program over the last 25 years. We'll evaluate the pros and cons of alternative specimens for workplace drug testing, including oral fluid and hair, and the role of Point of Collection (POC) drug testing as an alternative to laboratory-based testing. Finally we'll address new analytes and emerging analytical technologies that may become common features of the workplace drug testing lab of the future.

Objectives:

- ✓ List the major drug classes analyzed and the analytical techniques used to test for them in regulated workplace drug testing,
- ✓ Briefly describe the pros and cons of oral fluid and hair vs urine as specimens for forensic workplace drug testing, and
- ✓ List new drugs, analytes, and technologies that are likely to be incorporated into the Federal Workplace drug testing program in the next several years.

Sponsor: Legacy Laboratory Services

**Session
11**

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

New Concepts in Diagnosis of Anemia

- Sherrie L. Perkins, MD, PhD

Chief, Division of Clinical Pathology, University of Utah;
SVP, Research and Development, ARUP Laboratories
University of Utah/ARUP Laboratories
Salt Lake City, UT

This course will describe an algorithmic approach to diagnosis of anemia that focuses on integration of clinical features and specific laboratory testing. The major pathogenetic mechanisms underlying development of anemia will be discussed and approaches for laboratory testing proposed. New testing modalities that may be useful in diagnosis and characterization of anemia will also be discussed. Specific attention will be given to the correct diagnosis of microangiopathic hemolytic anemias (disseminated intravascular coagulation, hemolytic uremic syndrome, and thrombotic thrombocytopenia purpura) so as to allow for appropriate approaches to therapy.

Objectives:

- ✓ Describe the classification of anemia based on morphologic and pathogenetic features,
- ✓ Identify specific approaches to laboratory testing to diagnose specific subtypes of anemia, and
- ✓ Describe the importance of correct diagnosis of the major types of microangiopathic hemolytic anemia, and how to work-up an microangiopathic process so that the proper diagnosis may be made and appropriate therapy instituted.

Diagnosis and Laboratory Testing for AML Using the 2008 WHO Classification

This session will address the appropriate workup and diagnosis of AML using the 2008 WHO guidelines. We will discuss the importance of morphology, immunophenotype, cytogenetics and molecular testing in making a diagnosis of AML and identification of the clinically significant subsets of AML. We will also discuss the impact of molecular testing on determination of the prognosis and treatment of AML.

Objectives:

- ✓ Utilize the WHO Classification in making a diagnosis of and subclassification of AML,
- ✓ Recognize the importance of cytogenetic findings and myelodysplasia in establishing a diagnosis and prognosis in AML, and
- ✓ Recognize the importance of additional molecular testing, particularly in those patients who have normal cytogenetics, when a diagnosis of AML is made.

Sponsor: ARUP Laboratories



Thursday, October 2, 2014

**Session
12**

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

**Infectious Enteric Diseases &
The Current Status of Syphilis Testing**

- **Norman Moore, PhD**
Director of Scientific Affairs
Alere
Scarborough, ME

There are an estimated 211-275 million cases of diarrhea per year in the US with 1.8 million hospitalizations and 3100 deaths. In total it costs the US healthcare around \$25 billion. A number of etiological agents are responsible, from parasites to bacteria to viruses. Therapies can change depending on the diagnosis. Additional time will be spent on *C. difficile*. In the last hour, we will discuss syphilis in the US with the diagnostic algorithms available per the CDC, since there has been a recent uptick in cases.

Objectives:

- ✓ Discuss the health impacts of diarrhea in the US along with the etiological agents responsible,
- ✓ Discuss the diagnostic options and how they can affect patient therapy, and
- ✓ Discuss the current status of syphilis in the United States along with the CDC guidelines on best diagnostic algorithms.

Sponsor: Alere

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

Get 2.0 contact hours of free P.A.C.E./AMTrax credits by completing an exam at
the Exhibits.

**Session
13**

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

Laboratory Utilization: How to Keep Doctors from Ordering Silly Tests

- Kevin Foley, PhD, MT, SC, DABCC

Director of Chemistry, Toxicology, Immunology, and Laboratory Utilization
Kasier Permanente Northwest
Portland, OR

The laboratory has a key role in promoting good resource stewardship in any medical organization. Many clinicians over-order and over-interpret laboratory tests. Most clinicians will also freely admit that they would like help from the lab when it comes to selecting the right test or interpreting it. This session will describe some ways in which your laboratory can help guide appropriate medical practice by using your expertise in laboratory medicine.

Objectives:

- ✓ Describe some problems with our current 'any lab on demand' culture and comment on the sustainability and quality of patient care that ensues from such a culture,
- ✓ List at least three ways in which your laboratory can make it easier for clinicians to order the right test and harder to order the wrong test, and
- ✓ Outline a strategy for addressing abuses related to send-out (referred) testing.

**Session
14**

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

Genetics of Myeloid Malignancies

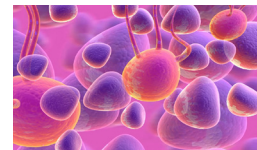
- Jennifer Dunlap, MD

Assistant Professor, Hematopathology, and Medical Director
OHSU
Portland, OR

The session will provide an overview of genetic abnormalities in myeloid malignancies, focusing on applications of recent genomic discoveries. We will discuss the basic concepts of genetic testing including cytogenetics, fluorescence in situ hybridization, and gene mutation testing.

Objectives:

- ✓ Describe basic concepts of genetic testing in myeloid malignancies,
- ✓ Describe recent genomic discoveries (gene mutations) made with the advent of next generation sequencing, and
- ✓ Describe the practical applications of gene mutation testing in myeloid malignancies including prognostic significance and diagnostic utility.



IFA Fundamentals and New Findings Workshop

**Session
15**

2:15 - 5:30 pm
Intermediate

3 contact hours

- Carl Schroder, MT(ASCP), MPA

IFA Technical Sales Manager
INOVA Diagnostics
San Diego, CA

This seminar discusses the basics of immunology (antibodies, antigens, and testing techniques) and the use of antibody profiles in the diagnosis of systemic rheumatic diseases and aiding in the diagnosis of small vessel vasculitic syndromes. It presents the laboratory findings, as well as some clinical observations in patients with rheumatoid arthritis (RA), systemic lupus erythematosus (SLE), mixed connective tissue disease (MCTD), systemic sclerosis (SSc), Sjögren's Syndrome (SS), and polymyositis/dermatomyositis (PM/DM). In addition it presents laboratory observations in patients with Granulomatosis with polyangiitis (Wegener's), microscopic polyangiitis, Churg-Strauss syndrome, Polyarteritis nodosa and Ulcerative colitis, and other small and medium vasculitic diseases. Included is a discussion of the current guidelines and various techniques used in identification of antibodies including: ouchterlony, IFA, ELISA, and bead technology.

This session will also provide a discussion and in-class review of IFA fundamentals and pattern interpretation seen on IFA slides: cANCA, p-ANCA, a-ANCA, and ANA patterns. Participants will have the opportunity to have hands-on IFA slide review, in addition to review of projected pattern images.

Objectives:

- ✓ Describe the basics of immunology and the use of antibodies in aiding in the diagnosis of various autoimmune diseases,
- ✓ List the various testing techniques used in identification of antibodies and antibody patterns, explaining.

Sponsor: INOVA Diagnostics

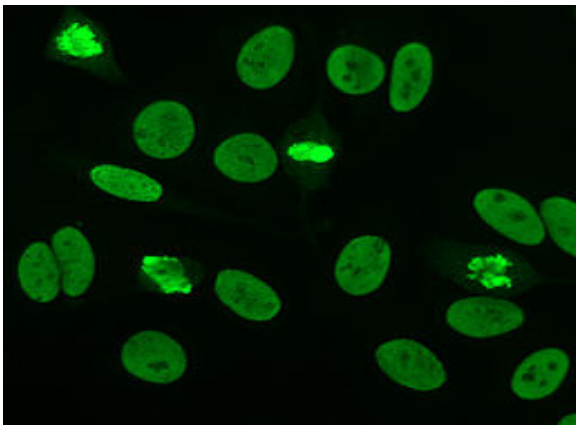


Image courtesy of Wikipedia
http://en.wikipedia.org/wiki/Anti-nuclear_antibody

Thursday, October 2, 2014

Session 16

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

Serum Free Light Chain Assays for Assessing Multiple Myeloma and Other Monoclonal Gammopathies (Plus Brief Introduction to Hevylite)

- **Anne L Sherwood, PhD**
Director of Scientific Affairs
- **Kirsten Barrett**
Regional Technical Sales Manager

The Binding Site, Inc.
Shoreline, WA

Patients with multiple myeloma (MM) and other monoclonal gammopathies often present with a myriad of non-specific symptoms. Therefore, physicians from a wide range of specialties, including primary care, rheumatology, neurology, nephrology, orthopedics and urgent care are more likely to be the first to see these patients at the onset of symptoms, compared to hematologists or oncologists. Traditional screening protocols often miss a significant percentage of patients with MM and related plasma cell disorders. The serum free light chain (sFLC) assay, Freelite®, is a highly specific, quantitative and fully automated approach to measure free lambda and kappa light chains in the serum, providing a sensitive indicator of patient status in the diagnosis, treatment and remission of Multiple Myeloma (MM) and related disorders. Enhanced diagnostic capability has been demonstrated when sFLC testing is used in conjunction with SPEP and/or IFE. Hevylite® measures and detects intact immunoglobulin heavy chain/ light chain pairs and may augment SPEP and sIFE testing in the monitoring of MM patients. Improved patient outcomes & healthcare cost benefits will be realized by adopting new screening protocols recommended by the International Myeloma Working Group (IMWG) and the National Comprehensive Cancer Network (NCCN).

Objectives:

- ✓ Identify the non-specific symptoms that often accompany multiple myeloma and other plasma cell disorders and explain why the traditional screening methods can miss the diagnosis of monoclonal gammopathies,
- ✓ Describe the differences in the measurement of serum free light chains in serum and urine, and
- ✓ Discuss the use of serum free light chain analysis in screening, diagnosis and monitoring disease as outlined by guidelines from IMWG and NCCN and give a brief description of Hevylite.

Sponsor: The Binding Site, Inc

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.

Friday, October 3, 2014

**Session
17**

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

Biosafety

- **Robert Nickla, M(ASCP)**
LRN Coordinator
Oregon State Public Health Laboratory
Hillsboro, OR

This session will provide a general overview of fundamental biosafety topics in the laboratory setting ranging from basic toward advanced. The focus will be on personal protective equipment (PPE), specimen handling, standard practices, engineering controls, and common lab acquired infections (LAI).

Objectives:

- ✓ Describe potentially hazardous biological materials and their associated risks, and the means to minimize risk and to protect against or prevent release or exposure,
- ✓ Describe standard biosafety practices in the laboratory setting, and
- ✓ Identify resources to obtain current biosafety practice information.

Sponsor: Oregon State Public Health Laboratory

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

Friday, October 3, 2014

**Session
18**

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

**Making Clinical Correlations Using Analyzer Data
and Morphology**

- **Lynn Maedel, MS, MLS(ASCP)^{CM} SH^{CM}**

Executive Director
CACMLE
Denver, CO

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 make relevant clinical correlations using the presented information. Some cases will initially appear as “look alike” until you look at the larger picture!

Objectives:

- ✓ Follow a systematic approach for interpreting CBC information,
- ✓ Correlate CBC instrument information with microscopic morphology and probable clinical pathology, and
- ✓ Given CBC information, keep looking at the “bigger picture” to help narrow down a probably cause for these blood pictures.

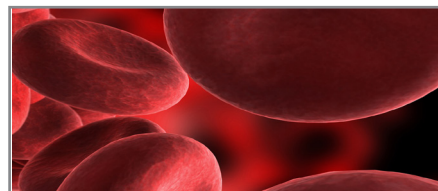
Those Bodacious Body Fluids

They don't have to be that scary! It's just that most of us don't get enough practice examining body fluid cytospin preparations. This presentation will provide participants with key morphologic characteristics to help differentiate normal and reactive mesothelial cells from malignant cell morphology seen in serous body fluids. Briefly, cells seen in synovial fluids and CSF will be examined as well. You will feel better about calling these cells by the end of this session, I promise.

Objectives:

- ✓ Identify clinically relevant microscopic elements seen in serous, CSF, and synovial fluids from Wright-stained slide preparations,
- ✓ Describe the morphologic features of normal, reactive and malignant cells seen in body fluids, and
- ✓ Differentiate mesothelial and other lining cells from malignant cells seen in body fluids.

Sponsor: Sysmex America



**Session
19**

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

Transfusion Medicine: Back to the Future

- Trisha Wong, MD, MS

Assistant Professor of Pediatrics and Pathology
OHSU
Portland, OR

The first portion of the program will include a broad range of topics covering the basics and history of transfusion medicine to the future of molecular testing in blood banking. The second part will provide an update of trends and studies in clinic transfusion medicine.

Objectives:

- ✓ Review basic transfusion physiology and pathophysiology,
- ✓ Describe the indication, benefits, and limitations of serological and molecular techniques, and
- ✓ Describe the “whys” and “hows” of Patient Blood Management programs and review the current products/product types in the blood bank manufacturing “pipeline”.

The Future is Now! Case Studies in Transfusion Medicine

- Cara Calvo, MS, MT(ASCP)SH

Clinical Laboratory Science Department Chair and Program Director
Oregon Tech- OHSU
Wilsonville, OR

This section is a review of several case studies illustrating the concepts, theories, and information covered in the preceding “Transfusion Medicine: Back to the Future” session.

Objectives:

- ✓ Recall the concepts, theories, and science underlying techniques and testing modalities used in the blood bank,
- ✓ Use knowledge of blood bank testing practices and transfusion service protocols to analyze topic-specific case studies, and
- ✓ Propose solutions to topic-specific case studies.

Sponsor: Oregon Tech - OHSU

Friday, October 3, 2014

Session 20

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

Using Risk Assessment Tools to Develop Your IQCP

- **Christine Ernhardt, MT(ASCP)SC**

QA/QC Specialist
Legacy Laboratories LLC
Portland, OR

New CMS guidelines go into effect January 1, 2016. Are you ready? CMS and CLSI have provided numerous documents and literature to guide you through the maze of Individualized Quality Control Plans (IQCP). With a quick overview of the key points, we will unplug what is a wealth of information and provide a detailed, yet simple approach to capture all of the data you need to develop a robust IQCP. Using a modified version of failure mode effects analysis (FMEA), as a group we will take an example case study through the process of risk assessment. You may be surprised at what you will uncover and how it can benefit your lab in more ways than one. We will also review a couple of examples that Legacy Laboratories took through the process during development.

Objectives:

- ✓ Describe the time frame and CMS requirements for education and implementation of IQCP,
- ✓ Discuss how Failure Mode Effects Analysis works, and
- ✓ Design an IQCP for a test method/analyte to improve laboratory processes.

Sponsor: Legacy Laboratories LLC

Schedule Note for Friday

Visit the Exhibits

11:45 AM to 2:15 PM

Last Chance

Get 2.0 contact hours of free P.A.C.E./AMTrax credits by completing an exam at
the Exhibits.

Friday, October 3, 2014

Session 21

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

Mindfulness: A New Approach to Quality Assurance

- **Benjamin Briggs MLS (ASCP)**

Medical Technologist
Mid Columbia Medical Center
The Dalles, OR

Organizations across the country are increasingly promoting mindful practices among employees. This session will use the collective wisdom of those in attendance to explore how this ancient practice might be used as a new approach to quality in your laboratory. Be prepared to contribute to an interesting discussion.

Objectives:

- ✓ Define "mindfulness in the laboratory",
- ✓ Define specific tools to promote mindfulness in the laboratory, and
- ✓ Explore the possible benefits and drawbacks of institutionalized mindfulness.

Session 22

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

Making the Grade: Benchmarks for Medical Lab Preceptors

- **Cara Calvo, MS, MT(ASCP)SH**

Clinical Laboratory Science Department Chair and Program Director
Oregon Tech - OHSU
Wilsonville, OR

- **Dawn, Taylor, MA, MT(ASCP)**

Asst. Professor and Clinical Externship Coordinator for the Oregon Tech-OHSU
CLS Program
Oregon Tech- OHSU
Wilsonville, OR

Medical laboratory science is continually undergoing change, transformed by scientific discovery, technological innovation, and increased regulatory control. Driven by 21st century global socioeconomic realities, medical labs continue to adapt practice improvements centered on standardization of all phases of laboratory testing and improved quality patient care. Similarly, the clinical training of medical laboratorians is dynamic, changing as the need for well-educated and highly skilled laboratorians increases and educational modalities evolve. This session is designed for those who are new medical lab preceptors, those who have many years of experience "training students at the bench", and those who may be interested in a future role as a medical lab preceptor. Through lecture, discussion, and game playing, attendees will explore what it takes to be a successful medical laboratory preceptor and learn what to expect from students training at the bench.

Objectives:

- ✓ Identify factors and discuss common challenges that impact clinical laboratory training sites' abilities to provide effective training experiences for medical laboratory students,
- ✓ After reviewing standards of medical laboratory education, adapt the common attributes of a successful Medical Lab preceptor, and
- ✓ Devise effective strategies to ensure medical lab students are able to achieve career-entry level competencies at the conclusion of their clinical training.

Sponsor: Oregon Tech - OHSU

Friday, October 3, 2014

Session 23

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

Serologic Testing of HSV, Treponema, and EBV Infections

- **Tiffany MacKenzie, PhD**

DiaSorin
Stillwater, MN

Serology testing continues to be an indispensable tool for the management of several disease states: testing for HSV, screening for syphilis, and identifying EBV infection stages. We will have a discussion on the important role that serology plays in the diagnosis of HSV, Treponema, and EBV infections.

Objectives:

- ✓ Discuss HSV type specific testing and CDC recommendations,
- ✓ Discuss treponemal screening algorithms and CDC recommendations, and
- ✓ Discuss EBV panel testing vs monospot testing.

Sponsor: DiaSorin

Session 24

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

Introduction to Prenatal Screening

- **Danelle Beaudoin, PhD**

Scientific Director, Clinical Chemistry
Legacy Laboratory Services, LLC
Portland, OR

Prenatal screening has a 25+ year history of detecting potential birth defects and chromosomal abnormalities. This seminar will consider the clinical and analytical implications for both first and second prenatal screening. Laboratory performance and quality assurance will be discussed as it relates to bringing this testing in-house. And finally, emerging molecular technologies and new screening techniques will be reviewed.

Objectives:

- ✓ Describe how biochemical and ultrasound markers are used to screen for open neural tube defects and chromosome abnormalities during the first and second trimester of pregnancy,
- ✓ Review laboratory issues to consider when performing prenatal screening, and
- ✓ Briefly explain non-invasive prenatal screening.

Saturday, October 4, 2014

Session 25

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

Marrow Failure Syndromes - Causes, Symptoms, Diagnosis, Treatment

- **Guang Fan, MD, PhD**

Director of Hematopathology Fellowship Program
Oregon Health and Science University
Portland, OR

Bone marrow failure syndrome is a group of disorders that manifest as cytopenia. It can be either inherited or acquired and can present in pediatric or adult population. This session will cover the spectrum of disorders related to marrow failure, including fanconi anemia, telomere syndromes, aplastic anemia, paroxysmal nocturnal hemoglobinuria, myelodysplastic syndrome, etc. The clinical presentation, morphologic, flow cytometric, and molecular diagnosis will be discussed. Treatment options will be presented.

Objectives:

- ✓ Describe the causes of marrow failure and clinical presentation,
- ✓ Recognize morphologic features of different marrow failure disorders, and
- ✓ Facilitate performing proper diagnostic tests.

Session 26

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

Division 6.2 Packing & Shipping

- **Robert Nickla, M(ASCP)**

LRN Coordinator
Oregon State Public Health Laboratory
Hillsboro, OR

This course will provide an overview of the regulations that govern the packaging and shipping of Division 6.2 infectious substances, including DOT, IATA, and the US Postal Service. Participants will learn how to properly identify and classify specimens for packaging and shipping, how to properly mark and label infectious packages, and where to find the current regulatory information and resources. If you package and ship infectious materials for your laboratory, this course is definitely for you!

Objectives:

- ✓ Identify and classify infectious shipments,
- ✓ Mark and label infectious packages, and
- ✓ Identify and locate current regulatory information and resources.

Sponsor: Oregon State Public Health Laboratory



**Session
27**

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

**Emergent/Re-Emergent Diseases:
Q Fever and Chikungunya**

- Teresa M. Wolfe, PhD, MT(ASCP)

Assistant Professor
Oregon Institute of Technology
Wilsonville, OR

Emergent/Re-Emergent diseases with the potential to cause epidemics are an increasing global threat due to international travel and commerce. *Coxiella burnetii*, the causative agent of Q fever, is classified as a select agent and is considered a potential bioweapon by the Centers for Disease Control and Prevention. Q fever occurs worldwide and numerous natural outbreaks have been reported in the U.S. and other countries. Chikungunya is a viral disease that was originally identified in Africa and has since spread to a number of other countries, with a recent outbreak reported in the Caribbean in 2014. In this session we will discuss the history of these illnesses, pathogenesis and associated laboratory data, and the potential for their use as biological weapons.

Objectives:

- ✓ Briefly explain the pathogenesis of Q fever and Chikungunya and their causative agents,
- ✓ Identify the vectors of Q fever and Chikungunya, and
- ✓ Describe the levels of select agent categories and differentiate the terms emergent and re-emergent diseases

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.....



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.

Saturday, October 4, 2014

Session 28

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

Where is the Safety? The Basics of Compatibility Testing

- Roxann Gary, MT (ASCP) SBB

Medical Laboratory Scientist Lead
Harborview Medical Center
Renton, WA

Patient versus donor will be our focus as we look at crossmatch methods: serologic and electronic. A discussion of AABB Standards and their application at your facility will be included. As a preamble to the 2nd speaker, we will discuss "Emergency Uncross-matched" RBC transfusion and post-transfusion compatibility testing.

Objectives:

- ✓ Identify the required compatibility test method based on AABB Standards and patient information,
- ✓ Assess the risk of transfusion based on differing levels of patient test information, and
- ✓ Identify four parts of red blood cell compatibility assessed prior to transfusion.

The Changing Face of Massive Transfusion

- John R. Hess, MD, MPH, FACP, FAAAS

Professor of Laboratory Medicine and Hematology
Harborview Medical Center
Seattle, WA

Resuscitation has changed dramatically with the advent of improved medical treatments, the advent of new blood products, and the findings of recent transfusion studies in trauma victims. This presentation will focus on the causes of trauma-associated coagulopathy and possible transfusion protocols appropriate to improving patient outcome.

Objectives:

- ✓ Review the causes of Trauma-Associated Coagulopathy,
- ✓ Discuss the composition of current blood products and how they limit resuscitation, and
- ✓ Review the evidence that balanced hemostatic resuscitation improves outcome.

Sponsor: Harborview Medical Center

Session 29

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

Successfully Influencing Others through Power Dynamic

- Patti Lind, MA

Communication Consultant
Lind Consulting Group
Portland, OR

Many of the interpersonal problems which show up at work have power struggles at the center. It is a very fluid dynamic, and some people are more effective at this than others. This workshop will show you how to identify the power dynamics, which are at play at your worksite, assess your own experience with power dynamics and provide you with strategies for being effective with your personal power. In addition to basic skills of personal power, you will also learn how to remove yourself from the stress of power plays and recover from interactions which have gone poorly.

Objectives:

- ✓ Recognize behaviors associated with low, shared and high power dynamics,
- ✓ Describe key strategies for moving towards a shared power experience in day-to-day interactions, and
- ✓ Discuss critical strategies for reducing your stress associated with power plays

**Session
30**

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

**Public Health Action for Carbapenem-Resistant
Enterobacteriaceae**

- P. Maureen Cassidy, MT, MPH

Epidemiologist
Oregon Health Authority
Acute and Communicable Disease Prevention Program

The lab and public health work together on a global threat. Carbapenem-resistant Enterobacteriaceae (CRE) are considered an urgent public health threat because they cause high infection-related morbidity and mortality, and have spread rapidly across the globe. This part of the session will cover CRE epidemiology nationally and in Oregon, case definitions, Oregon's efforts to prevent spread of CRE, and include two CRE case studies. The case studies will demonstrate use of the laboratory information and the role of public health in confirmation, investigation, and prevention of CRE.

Objectives:

- ✓ Describe the epidemiology of carbapenem-resistant Enterobacteriaceae (CRE) in the United States and Oregon and review surveillance case definitions for CRE,
- ✓ Discuss efforts by Oregon Public Health to prevent spread of CRE, including laboratory testing at Oregon State Public Health Lab, and
- ✓ Review 2 Oregon carbapenemase producing CRE cases from susceptibility test results through public health actions.

Foodborne Disease Outbreaks

- Emilio DeBess, DVS, MPVM

State Public Health Veterinarian
Oregon Health Authority

2013-2014 Outbreaks: What you eat WILL make you sick! Foodborne illness affect Oregonians on a yearly basis. This part of the session will discuss 3 outbreaks investigated by the Oregon Health Authority in 2014.

Objectives:

- ✓ Describe the epidemiology of campylobacter and the raw foods we consume,
- ✓ Discuss how salmonella in store bought chicken can make you sick, and
- ✓ Discuss the importance of an foodborne outbreak investigation.

Healthcare-Associated Infections Outbreaks

- Genevieve Buser, MDCM, MSHP

Public Health Physician
Oregon Health Authority
Acute and Communicable Disease Prevention Program

Your Mom was right: Wash your hands! Healthcare-associated infections (HAI) are an emerging but critical field for public health action because they can have high infection-related morbidity and mortality, and are largely preventable. This part of the session will cover examples of HAI infections where laboratory data was important to determining the extent of the outbreak, the source, and for ongoing surveillance. The case studies will demonstrate the use of laboratory data to inform the confirmation, investigation, and prevention of HAI infections.

Objectives:

- ✓ Describe the use of laboratory methods in confirming HAI outbreaks,
- ✓ Review real cases of HAI outbreak investigations, and
- ✓ Discuss prevention efforts by Oregon Public Health to prevent future HAI outbreaks.

Sponsor: Oregon Health Authority Acute and Communicable Disease Prevention Program

Saturday, October 4, 2014

Session 31

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

Bloody Good Times: Blood Bank Testing Problems, Innovations, and Alternatives

- **Cara Calvo, MS, MT(ASCP)SH**

Clinical Laboratory Science Department Chair and Program Director
Oregon Tech - OHSU
Wilsonville, OR

Through lecture and robust discussion, augmented by the use of audience response polling technology, the audience will engage in the examination of some of the common yet pesky testing problems encountered in contemporary blood banks, as well as innovative and alternative solutions to such problems. Attendees are encouraged to bring an example of a pesky testing problem encountered in their labs and to be prepared to share and to glean from the collective wisdom of fellow attendees.

Objectives:

- ✓ Describe common 'pesky' testing problems encountered in the contemporary blood bank,
- ✓ Discuss innovative and alternative solutions to common 'pesky' testing problems encountered in the contemporary blood bank, and
- ✓ Adapt strategies to solve pesky testing problems encountered in their blood bank.

Sponsor: Oregon Tech - OHSU

Session 32

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

Hemostasis in 2014 and Beyond

- **Rebecca Armer, MT (ASCP)**

Technical Specialist, Laboratory
Kaiser Airport Way Regional Laboratory
Portland, OR

This session will cover the most recent information available on various topics in coagulation including the novel anticoagulants, current thinking and developments in laboratory testing, and current practices in patient care related to these (and other) medications. A review of the coagulation pathways will be included.

Objectives:

- ✓ Identify the novel anticoagulants currently available and prescribed in the US,
- ✓ List the mechanisms, advantages and pitfalls of novel antiogaulant treatments, and
- ✓ Describe the intrinsic, extrinsic, and common coagulation pathways as they relate to anticoagulation treatment, clinical conditions and laboratory testing.

SPONSORS



The 2014 Northwest Medical Laboratory Symposium would like to extend its sincere thanks for the following companies and organizations for their support.

Alere

ARUP Laboratories

Bio-Rad Laboratories

Cepheid

Diagnostica Stago, Inc.

Diasorin

Harborview Medical Center

INOVA Diagnostics

Kaiser Permanente

Legacy Laboratory Services

Oregon Health Authority Acute and Communicable Disease

Prevention Program

Oregon State Public Health Laboratory

Oregon Tech - OHSU

PALCOE: Portland Area Laboratory Consortium for Education

Siemens Healthcare Diagnostics

Sysmex America, Inc.

The Binding Site, Inc.

EXHIBITORS & EXHIBIT HALL INFORMATION

The leading manufacturers and distributors will once again gather in the Exhibit Hall at the Columbia Conference Center to display their wares. This will be the 32nd 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 will be bringing their demonstration van 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 badge 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/NWMLS, click on "Exhibits".

Abbott Laboratories	LabReach LLC
Advanced Instruments, Inc.	MediaLab
Alere, Inc	Meridian Bioscience, Inc.
A2LA - American Assn for Lab Accreditation	McKesson
American Red Cross, Pacific NW Region	Olympus America, Inc
ARKRAY	PAML
ARUP Laboratories	PlatinumCode
AUDIT MicroControls	Radiometer America
Beckman Coulter	Rees Scientific
Cepheid Dx	Response Point of Care
Delivery Express	Roche Diagnostics
DiaSorin, Inc.	Sekisui Diagnostics
EMD Millipore	Siemens Healthcare Diagnostics
Global Focus Marketing & Dist	Stago
Grifols Diagnostics	Sysmex
Hardy Diagnostics	TELCOR, Inc.
Hemosure	The Binding Site
Hologic	Thermo Scientific
Immunodiagnostic Systems	Tosoh Bioscience, Inc.
INOVA Diagnostics	University of Washington
Instrumentation Laboratory	WSLH Proficiency Testing

EXHIBIT HOURS

Wednesday, October 1	Exhibit Opening	11:45 AM – 2:15 PM
Thursday, October 2		11:45 AM – 2:15 PM
Friday, October 3	Exhibit Closing	11:45 AM – 2:15 PM

EXHIBITOR PRODUCT LIST

List is updated as more companies sign up to exhibit. Check the website, www.asclswa.org/Exhibits2014.html.
For Exhibit Information contact Brenda Kochis, Email: BrenKoch@comcast.net

Abbott Laboratories	Architect i2000; Architect c4000
Advanced Instruments	3320 Osmometer, 2020 Multi Sample Osmometer, Anoxomat System
Alere, Inc.	epoc Bedside ABG system; Alere i Molecular Influenza A & B; Triage Cardiac, BNP, and D-dimer; Infectious Diseases testing
A2LA - American Assn for Lab Accreditation	Accreditation services
American Red Cross, Pacific NW Region	Blood Products; Reference Laboratory Services; Stem Cell Collection and Processing; Clinical Services
ARKRAY	AUTION HYBRID AU-4050 Fully Automated Urine Chemistry and Sediment Analyzer
ARUP Laboratories	Laboratory Testing Services
Audit MicroControls, Inc.	Calibration Verification IVD, Daily Quality Control IVD, Cal Ver / Daily QC POC, Cal Ver / Daily QC Respiratory
Beckman Coulter, Inc	Chemistry and Immunoassay; Hematology and Urinalysis; Centrifugation; Rapid Diagnostic Test Kits
The Binding Site	SPAPLUS, FREELITE
Cepheid Dx	GeneXpert & GeneXpert Infinity, Xpert CT/NG, Xpert C.diff/Epi, Xpert MTB/RIF
Delivery Express	Seattle transportation experts
DiaSorin, Inc	Immunodiagnosics, systems platforms
EMD Millipore	Water purification systems, Direct Q3
Grifols Diagnostics	ESR Automation; ELISA Automation; Infectious Disease/Autoimmune ELISA
Hardy Diagnostics	Hardy Chrom, Carrot Broth, Aneragro, PYR
Hemosure	one step iFOB test
Hologic	PANTHER, APTIMA HPV, CT/NG, Trichomonas, ThinPrep pap test
INOVA Diagnostics	Fully integrated autoimmune laboratory solutions; BIO-FLASH, Rapid-Response Chemiluminescent Analyzer; QUANTA-Lyser, Automated EIA/IFA Analyzer Platform; NOVA View, Digital IFA
Immunodiagnostic Systems	iSYS Automated Instrument, 25-Hydroxy Vitamin D, Growth assays (IGF-I, hGH, IGFBP-3), 1,25-dihydroxy Vitamin D

EXHIBITOR PRODUCT LIST

List is updated as more companies sign up to exhibit. Check the website, www.asclswa.org/Exhibits2014.html.
For Exhibit Information contact Brenda Kochis, Email: BrenKoch@comcast.net

Instrumentation Laboratory	Hemostasis Analyzer the ACL TOP 300 CTS, Critical Care Analyzer the GEM 4000
LabReach LLC	Courier Service; Medical Courier Training
McKesson	Lab Consulting; Lab Equipment; Lab Services and Supplies
MediaLab	Electronic document control; Web-based point-of-care competency assessment tool; Web-based continuing education and compliance courses; Clinical laboratory students' exam simulator
Meridian Bioscience, Inc.	illumigene Group B Strep, illumigene Group A Strep, illumigene Mycoplasma
PAML	Lab Testing
PlatinumCode	Labels for Laboratory Information Systems; Latex-free Brightly Colored Tourniquets; Latex-free Nitrile Exam Gloves; Latex-free Cohesive Bandage
Response Point of Care	RAMP 200 Cardiac and Infectious Disease Platform; RAMP Reader Cardiac Platform
Radiometer America	Blood Gas
Rees Scientific	automated environmental monitoring
Roche Diagnostics	Roche Diagnostics, Roche Molecular, Roche Ventana, Roche CoaguChek
Sekisui Diagnostics	OSOM Influenza A&B, OSOM Ultra Strep A, OSOM hCG, OSOM BV and TRICHOMONAS
Siemens Healthcare Diagnostics	Vista 500, ExL with LOCI, AUWi, CA-1501 (Demo Van onsite)
Stago	Coagulation Analyzers, Coagulation Reagents, Coagulation Education, Clarity web-based peer group program
Sysmex America, Inc.	Hematology Product
Telcor, Inc.	QML - Point of care connectivity and data management software
Thermo Scientific	Microbiology: Remel, Trek Diagnostics, Oxoid
Tosoh Bioscience, Inc.	G8 HPLC analyzer
University of Washington	Genetic Testing; Molecular Microbiology and Virology; Reference Lab Testing
WSLH Proficiency Testing	Proficiency testing for clinical laboratories

Registration General Information

To Register by Mail:

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

2014 Northwest Medical Laboratory Symposium

Edna Anderson

1397 Redwood St NW

Salem, OR 97304-1940

If questions:

Contact: EMA46@comcast.net (email contact is preferred)

Phone: 503-364-5645 (leave message) Call before 8 pm please.

Registration mail postmark by date: September 8, 2014 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 then click on **Registration**. 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 **September 25, 2014** 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 or register online. Mention “Northwest Medical Laboratory Symposium” to get the rates. Rates will be available until **September 9, 2014** after which it will revert to standard hotel rates. See page 6 for more information.
- **No “NWMLS” Registration refunds** will be issued.
- **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

2014 Northwest Medical Laboratory
Symposium
October 1 - 4, 2014
Portland, OR

Online registration and credit card payment is available at
www.asclswa.org/NWMLS.html
or
Mail this form with a check by September 8, 2014.

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

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

Wednesday Oct 1	AM	1	2	3	4
	PM	5	6	7	8
Thursday, Oct 2	AM	9	10	11	12
	PM	13	14	15	16
Friday, Oct 3	AM	17	18	19	20
	PM	21	22	23	24
Saturday, Oct 4	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
2014 NWMLS
Edna Anderson
1397 Redwood St NW
Salem, OR 97304-1940

Full payment in U.S. Dollars must accompany each mailed-in registration. Make check payable to **NWMLS**.
Mail by September 8, 2014 to assure timely arrival.

OR

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

Registration Fee Categories

Fees are listed for each attendance category. The list below defines those categories.

Attendance Categories

Member: Any person who is a current member in good standing of the American Society for Clinical Laboratory Science (ASCLS) or the American Medical Technologists (AMT). Please list your membership number in the appropriate space on the registration form. New members are eligible for member rates. To join please see the information on the website: www.asclswa.org.

Special Member:

Any person currently a member in good standing of the following organizations:

- 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 through ASCP only 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)

Student: A student is defined as any person who is engaged at least half-time in a recognized program leading to either an associate’s or bachelor’s degree in a clinical laboratory science or one who is in a recognized Clinical Laboratory Internship program.

Phlebotomist: A phlebotomist is defined as any person whose primary responsibility is phlebotomy. Medical Assistants and AMT’s RMA are eligible for Phlebotomist fees.

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.

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 Holiday Inn, Portland Airport is 503-256-5000.

Hospitality

In keeping with tradition, all exhibitors will participate in combined hospitality functions in the Exhibit Hall. **There will be no individual hospitality suites.**

Updates

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

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-OR is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® program. ASCLS-OR 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.

OSSAMT is the approved provider for AMTrax CECs and insures that these educational presentations conform 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 regarding handout access.