

2016 ASCLS-WA Spring Seminar

April 14 - 16, 2016



Red Lion Hotel
Renton, WA



SPONSORS

The 2016 ASCLS-WA Spring Seminar would like to extend its sincere thanks for the following companies for their support.



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Washington State Department of Health Communicable
Disease Epidemiology

Washington State Department of Health Public Health
Laboratories

2016 Spring Seminar At A Glance

Thursday April 14, 2016	AM	1	2	3	4	5
		Packaging and Shipping Division 6.2 Materials Full Day	Autopsy Pathology in the 21st Century	MPV and New Anemia Markers Digital Cell Morphology	Communicable Disease Epidemiology and Laboratory Collaboration	Extending the Laboratory's Reach: Improving Patient Safety Using Informatics
	PM	1	6	7	8	9
		Packaging and Shipping Division 6.2 Materials	Blood Banking and Transfusion Medicine	Platelet Function Testing	New assays in AUTO-IMMUNE	ECMO in the Modern World
Friday April 15, 2016	AM	10	11	12	13	14
		Dealing with ABO Discrepancies Direct Antiglobulin Testing	Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma	An Xpert- Solution to Molecular Diagnostics, MDRO Alphabet Soup, and More	Implementing and Maintaining IQCP Calibration, Verification, Linearity, and Daily QC	Gastroenterology Update 2016
	PM	15	16	17	18	
		A "Primer" in Molecular Processes and Methods. Platelet Refractoriness	Diagnoses that Present in the Peripheral Blood Smear	How to Take Your Automated Chemistry Testing to The Next Level	Culturally Diverse Workplace Workplace Bullying	
Saturday April 26, 2016	AM	19	20	21	22	
		Board of Certification Jeopardy Style!	Molecular Testing: Start, Now, Future	A Tsunami of Change: Microbiology	Using Patient Safety Competencies to Improve the Quality of Laboratory	
	PM	23	24	25	26	
		Careers in Clinical Laboratory Science and Resume and Cover Letters	Pediatric Cases From the Common To the Complicated and Puzzling	Microbiology is Never Boring – Past, Present, and Future	Skills for Becoming an Effective Supervisor	

Welcome to the 2016 ASCLS-Washington Spring Seminar

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 “Spring Seminar” to:

Brenda Kochis
ASCLS-WA Spring Seminar
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: April 1, 2016.** 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 **Spring Seminar tab**. On the **Spring Seminar page**, click on **Registration** to see the link for online registration. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by **April 10, 2016** to receive lunch if eligible.

Special Member Registration Rates

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

Student Registration

If you are a student in one of the Washington Clinical Laboratory Science education programs listed below, you may register for **one session at NO CHARGE** courtesy of ASCLS-Washington. See your Program Director for more information about this offer and for help in registering for the 2016 ASCLS-WA Spring Meeting.

Washington Clinical Laboratory Science Educational Programs:

- Clover Park Technical College MLT Program
- Heritage University CLS Program
- Providence Sacred Heart Medical Center MT Program
- Renton Technical College MLT Program
- Shoreline Community College MLT Program
- University of Washington MT Program
- Wenatchee Valley College MLT Program

Handouts ONLY Available On-line

To keep registration rates as low as possible, the Spring Seminar no longer provides paper copies of the session handouts at the meeting. Session handouts will be available for download at the ASCLS-WA website, www.asclswa.org/SpringSeminar.html. Remember to print copies of the handouts for the sessions you registered for and bring them to the meeting with you. If you are having problems downloading a 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 starting 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.

Spring Seminar Committee

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Past President	Terese Abreu

ASCLS-WA Board Meeting and House of Delegates
Friday, April 15, 2016, 5:00 PM

Northwest State Society of the American Medical Technologists

President	Lourie Harrington
Vice President	Gene Rathbun
Secretary	Danielle Rathbun
Treasurer	Roxanne Erskine

NWSSAMT Board Meeting and Business Meeting
Friday, April 15, 2016, 5:00 PM

Session Information

Registration Hours
7:30 AM - 8:30 AM
12:30 PM - 1:00 PM

Scientific Session
8:30 AM - 12:00 PM
1:00 PM - 4:30 PM

Coffee Breaks
10:00 AM - 10:30 AM
2:30 PM - 3:00 PM

Lunch is from 12:00 - 1:00 PM each day. Individuals pre-registered for **an AM and a PM session on the same day or for Session 1** will be provided lunch. Lunch cannot be guaranteed for onsite registrants.

Name Badges are required for entrance to all sessions.

Smoking: There is no smoking during the sessions or in the Renton Red Lion.

Dress: Casual business dress is appropriate.

Cell Phones/Pagers: As a courtesy to the speakers and registrants, all cell phones and pagers must be turned off during the sessions.

Meeting Room Assignments: The meeting room assignments will be printed on the session sheet in your registration packet.

Session Accreditations

P.A.C.E.® 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. Additionally, ASCLS-WA is approved as a provider for California clinical laboratory licensees under P.A.C.E.® California accrediting agency license number 0001. ASCLS-WA will be using CE Organizer for documentation of continuing education credits. Please make note of the P.A.C.E.® number and 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.

Red Lion Hotel

One South Grady Way
Renton, WA 98057

Phone: (425) 226-7700
<http://www.redlion.com/olympia>

Rates: \$99.00 per night plus state and local tax.
This rate applies to single or double.

Please mention that you are with ASCLS-WA Spring Seminar to obtain these rates. Rates are held until April 1, 2016, after which room rates are at the discretion of the hotel.



Driving Directions to the Renton Red Lion

DIRECTIONS FROM SOUTHBOUND I-5:

- Take Exit 154A from South Bound I-5 toward Renton via I-405N
- Take exit 2 from I-405 N
- Continue on WA-167 N
- Merge onto WA-167 N
- Turn right onto S Grady Way
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

DIRECTIONS FROM SOUTHBOUND I-405

- Take exit 2B from I-405 S
- Merge onto Rainier Ave S
- Turn right onto S Grady Way 0.1 mi
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

DIRECTIONS FROM NORTHBOUND I-5:

- Take exit 154AB from North Bound I-5 toward Bellevue via I-405N
- Take exit 2 from I-405 N
- Continue on WA-167 N
- Merge onto WA-167 N
- Turn right onto S Grady Way
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

DIRECTIONS FROM NORTHBOUND SR 167:

- Take NB SR 167 to Renton
- Turn right onto S Grady Way
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

Driving Alert

Traffic on I-405 in Renton can be very heavy. Please allow yourself an additional 30-45 minutes over what you think would be normal driving time to allow for traffic congestion. There is alternate route information for the Renton Red Lion Hotel listed on the hotel page on the ASCLS-WA website.

Session 1

8:30 am - 4:30 pm
Intermediate
6 contact hours

NOTE: Full Day Session

Packaging and Shipping Division 6.2 Materials Certificate Course

- Chuck Talburt

Training Advisor
Washington State Public Health Laboratories
Shoreline, WA

This all-day course includes 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 classify specimens for packaging and shipment, understand how to use a flow chart to properly categorize specimens for shipping by any means, and how to identify the proper documentation requirements to follow for air and land shipment of Division 6.2 materials. Division 6.2 Infectious Substances are regulated as Hazardous Material and the training requirements are applicable for those who load, unload, or handle dangerous goods; mark, label or otherwise prepare containers or packaging for transportation of dangerous goods; or prepare a Shipper's Declaration of Dangerous Good form or is responsible for documentation.

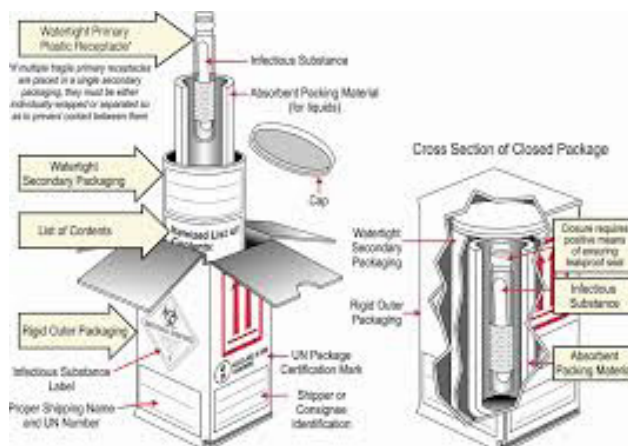
Upon successful completion of this course, participants will receive a certificate that they have been trained to package and ship Division 6.2 materials.

Objectives

- ✓ Discuss how to comply with applicable regulations,
- ✓ Identify and classify types of Division 6.2 Infectious Substances including Exemptions, Category B, and Category A and identify basic triple packaging procedures for all classifications, and
- ✓ Identify the proper labels and markings required for Division 6.2 and dry ice.

Sponsor: Washington State Public Health Laboratories

Note that there is one price for this session for all registrants. Session limited to 20.



Thursday, April 14, 2016

**Session
2**

8:30 am - 12:00 pm
Intermediate
3 contact hours

**The Old and the New: Autopsy Pathology in the
21st Century**

- **Joseph R. Siebert, PhD**
Professor of Pathology
University of Washington School of Medicine
Seattle, WA

During this session, we will look at the many contributions the autopsy has made to families, medical science, and society. Beginning with a general and historical overview of the field, we will then look at the autopsy findings of specific cases that illustrate the value of autopsy in today's world.

Objectives

- ✓ Describe the purposes of the autopsy,
- ✓ Describe the history and techniques of autopsy, and
- ✓ Identify the contributions that autopsy has made to society, as illustrated by several case studies.

Student Poster Session

A student poster session will again be held as a part of the ASCLS-WA Spring Seminar!! Come and support our future laboratory professionals by visiting the poster presentations during the meeting. PACE credits will be available to those that visit the student poster session and successfully complete an exam about the posters. This is a great way to get continuing education credits and support our students!

There is no charge to attend the poster session.

Check the ASCLS-WA website for more information about the poster topics.

**Session
3**

8:30 am - 12:00 pm
Intermediate
3 contact hours

**MPV, an “Old New” Parameter, and
New Anemia Markers**

- Kathy Davidson Altig, MT (ASCP)

Hematology Field Product Specialist
Beckman Coulter, inc.
West Linn, OR

The first part of this session will discuss how MPV is derived, and how it can assist in quantifying age and reactivity of platelets. This helps in the diagnosis of thrombocytopenia. It can also be used as a prognostic indicator of thrombosis and MDS. You can derive a calculated analyte called platelet mass which is even more powerful. And the second portion will discuss the usefulness of several anemia markers that MDs rarely understand and we forget to use.

Objectives

- ✓ Describe how the MPV and Platelet Mass is derived,
- ✓ Describe how MPV fits into the diagnosis and prognosis of several diseases including thrombocytopenia, heart disease, and MDS, and
- ✓ Discuss several anemia markers and what they mean so that you can use them to assist physicians in their diagnosis of anemias.

Sponsor: Beckman Coulter

**Digital Cell Morphology, Improving Efficiency,
Proficiency, and Connectivity**

- Scott Dunbar, BS, MS

Area Sales Manager
CellaVision
Flower Mound, TX

This presentation will demonstrate how digital cell morphology can impact work flow in the hematology department for peripheral blood and body fluid analysis. We will demonstrate how advanced software can impact turn around time and improve proficiency. Furthermore this presentation will cover how remote review software can speed up pathology consults. All of the technology will be supported with numerous case studies from real patients.

Objectives

- ✓ Describe how artificial neural networks can aid in abnormal cell identification,
- ✓ Discuss how remote review software can improve patient care, and
- ✓ Discuss how improved standardization can be possible in an area in the laboratory that has been historically very subjective.

Sponsor: CellaVision

**Session
4**

8:30 am - 12:00 pm
Intermediate
3 contact hours

**Communicable Disease Epidemiology and Laboratory
Collaboration**

- Wayne Turnberg, PhD, MSPH

Director, Communicable Disease Epidemiology
Washington State Public Health Laboratories
Shoreline, WA

The speakers in this session will present on a diverse range of epidemiology/laboratory linkages. Appropriate testing for Legionella in a commercial lab setting, the role of culture in foodborne illness investigations, discussion of elements of a communicable disease investigation, discussion of Culture Independent Diagnostic Testing (CIDT), and the importance of clinical isolates for public health protection will be discussed.

Objectives

- ✓ Describe the linkages between the clinical and public health laboratories and epidemiology,
- ✓ Describe the elements of a communicable disease investigation, and
- ✓ Discuss the importance of clinical isolates for public health protection.

**Sponsor: Washington State Public Health Laboratories Communicable
Disease Epidemiology**

The description above is an overview of the session topics. This session consists of multiple speakers that will talk on varying topics. The speakers and topics are listed below.

Office of Communicable Disease Epidemiology	30 minutes	Wayne Turnberg
Microbiology Test Menu	20 minutes	Brian Hiatt
BREAK	10 minutes	
Foodborne Outbreaks and Molecular Epidemiology	50 minutes	Beth Melius and Ailyn Perez-Osorio
BREAK	10 minutes	
Legionella Investigations and Testing	30 minutes	Vivian Hawkins
Zoonotic Disease – From Fungal Diagnostics to Zika Testing	30 minutes	Hanna Oltean
CDC’s Regional Vaccine Preventable Disease Reference Lab Initiative	30 minutes	Chas DeBolt

Brian Hiatt BS, Department of Health Public Health Laboratories’ Microbiology Director

Beth Melius, RN, MN, MPH, Department of Health’s Foodborne Epidemiologist

Ailyn Pérez-Osorio, PhD, Department of Health Public Health Laboratories’
Molecular Microbiologist

Vivian Hawkins, PhD, MPH, Department of Health’s Influenza and Legionella Epidemiologist

Hanna Oltean, MPH, Department of Health’s Zoonotic Disease Epidemiologist

Chas DeBolt, RN, MPH, Department of Health’s Senior Epidemiologist for
Vaccine Preventable Diseases

**Session
5**

8:30 am - 12:00 pm
Intermediate
3 contact hours

Safety Using Informatics

- **Patrick Mathias, MD, PhD**
Clinical Informatics Fellow
University of Washington
Seattle, WA
- **Daniel Herman, MD, PhD**
University of Washington
Seattle, WA

Diagnostic errors are estimated to impact 5% of adults in the US each year. Because the laboratory plays an important role in diagnosis, we have the opportunity to implement systems that prevent such errors. In this session the speakers will discuss the current state of diagnostic error prevention in healthcare and provide examples of how laboratory domain knowledge can be combined with informatics techniques to improve patient safety. In addition, we will discuss how changes to laboratory workflow can prevent bad patient outcomes.

Objectives:

- ✓ Describe the importance of diagnostic error in modern healthcare delivery,
- ✓ Detail at least two examples of laboratory errors/artifacts that can have significant implications for patient care, and
- ✓ Explain at least one laboratory workflow change that can be implemented in your local practice to improve patient safety.



Thursday, April 14, 2016

**Session
6**

1:00 - 4:30 pm
Intermediate
3 contact hours

**Blood Banking and Transfusion Medicine Technology:
Past, Present, and Future
Transfusion: Indications, Contraindications, and
Adverse Events**

- Debra L. Callahan, MD

Medical Director, Clinical Pathology
EvergreenHealth: Kirkland and Monroe, WA
Kirkland, WA

This session will introduce important concepts in the field of Blood Banking and Transfusion Medicine including the history of the specialty, indications and contraindications for transfusion, technological developments, and the recognition and evaluation of transfusion reactions.

Objectives

- ✓ Discuss the indications and contraindications for blood component transfusion and its alternatives,
- ✓ Recognize and evaluate potential transfusion reactions, and
- ✓ Describe the technological developments which have advanced the field of blood banking and transfusion medicine.

Sponsor: EvergreenHealth

**Session
7**

1:00 - 4:30 pm
Intermediate
3 contact hours

Platelet Function Testing

- Wayne L. Chandler, MD

Chief, Laboratory Medicine
Seattle Children's Hospital
Seattle, WA

- Nabiha Huq Saifee, MD, PhD

University of Washington
Seattle, WA

This session will introduce platelet function testing including platelet aggregation analysis, ROTEM, TEG, and VerifyNow. It will include a discussion of hereditary platelet function defects and use of platelet function testing to assess anti-platelet therapy and risk of bleeding prior to surgery. Case studies will be presented.

Objectives

- ✓ Describe the different types of platelet function tests,
- ✓ List most common platelet function defects, and
- ✓ Discuss how platelet function testing can be used in the evaluation of anti-platelet therapy.

**Session
8**

1:00 - 4:30 pm
Intermediate
3 contact hours

New Assays in AUTO-IMMUNE

- Carl Schroder, MT(ASCP) MPA

Manager Inova Technical Sales
Inova Diagnostics, Inc.
San Diego, CA

In this session we will discuss basic immunology practices and methods with a focus on new assays associated with the following disease states: Connective Tissue Disease, Statin-associated myopathy, Anti-phospholipid Syndrome (APS), and Inflammatory Bowel Disease (IBD). We will also cover Statin induced myopathy, and new testing to separate short term problems corrected by discontinuance of the drug from the long term auto-immune syndrome. We will discuss how these non-invasive tests can be used to aid physicians' diagnosis, decrease invasive procedures, and reduce healthcare costs.

Objectives

- ✓ Describe how ANA testing has shifted in the past few years back to screening with IFA and understand how the new assay for DFS-70 will help in the exclusion of many of the healthy individuals with ANA's from those developing Connective Tissue Disease,
- ✓ Compare Inflammatory Bowel Disease and Irritable Bowel Syndrome and how a new non-invasive assay discriminates between the two, and
- ✓ Describe the basics of Anti-phospholipid Syndrome (APS), the clinical signs, symptoms, treatments and laboratory testing used to help the physician in his diagnosis.

Sponsor: Inova Diagnostics, Inc.

**Session
9**

1:00 - 4:30 pm
Intermediate
3 contact hours

ECMO in the Modern World- Lessons Learned, Future Directions

- Chris Burke, MD

Seattle Children's Hospital
Seattle, WA

This session will focus on a complete tutorial of extracorporeal membrane oxygenation (ECMO). It will briefly cover ECMO history, physiology, membrane lung function, patient management, anticoagulation, and future directions.

Objectives

- ✓ Describe the basics of ECMO including differences between VA and VV ECMO and basic cannulation strategies,
- ✓ Describe how an ECMO membrane lungs functions, and
- ✓ Discuss the basics of anticoagulation and monitoring during ECMO.

**Session
10**

8:30 am - 12:00 pm
Intermediate
3 contact hours

Dealing with ABO Discrepancies

- **Jeanne M. Scott, MT(ASCP)SBB^{cm}**
Supervisor, Immunohematology Reference Laboratory
American Red Cross Pacific Northwest Region
Portland, OR

This refresher course is designed to be interactive and will cover ABO discrepancies and resolutions to the problems they can create in the transfusion service.

Objectives

- ✓ Recognize and “categorize” ABO discrepancies,
- ✓ Describe techniques to resolve ABO discrepancies, and
- ✓ List appropriate transfusion recommendations in Emergent situations and Resolved discrepancies.

Direct Antiglobulin Testing: When To Do It, and What the Results Mean

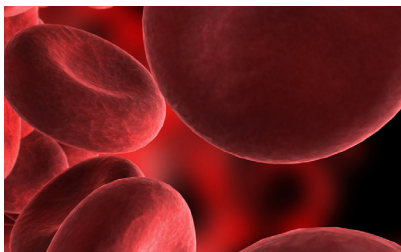
- **Karen Rodberg, MBA, MT(ASCP)SBB**
Director, Immunohematology Reference Labs (West Area 1)
American Red Cross
Pomona, CA

Direct Antiglobulin Testing was first described in 1945 by Coombs, Mourant, and Race. This test is valuable in helping diagnose autoimmune hemolytic anemia and hemolytic disease of the newborn, and in the investigation of suspected transfusion reactions. The DAT can also be positive in normal blood donors. The lecture will cover a variety of situations when performing a DAT is valuable, and how to interpret the results. Case studies will be used to illustrate some of these situations.

Objectives

- ✓ State the proper technique for performing a direct antiglobulin test (DAT),
- ✓ Discuss situations when DAT testing is appropriate, and
- ✓ Discuss interpretation of results and options for follow-up testing in various situations.

Sponsor: American Red Cross Pacific Northwest Region



Have you visited the student poster sessions yet? If not, plan to spend some time there tomorrow

**Session
11**

8:30 am - 12:00 pm
Intermediate
3 contact hours

**Chronic Lymphocytic Leukemia
Small Lymphocytic Lymphoma**

- Kerstin Edlefsen, MD

Assistant Professor
University of Washington Medical Center
Seattle, WA

- Emily Glynn, MD

University of Washington
Seattle, WA

Chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL) is one of the most common lymphoid malignancies in adults and has one of the strongest heritable components of all malignancies. CLL/SLL is often identified in the clinical laboratory as a part of a peripheral smear review, but the clinical implications of the diagnosis can be very different depending on the clinical scenario. Why do some patient's require therapy while others don't? How can the laboratory help clinicians and patients know which CLL/SLL will require therapy? In addition, some patient's have small abnormal populations, termed 'monoclonal B cell lymphocytosis,' that don't meet diagnostic criteria for CLL/SLL. What is the clinical significance of these populations? Why are they different from CLL/SLL?

Objectives

- ✓ Describe the epidemiology, diagnosis and treatment of CLL/SLL,
- ✓ Describe important prognostic markers in CLL/SLL and how they are evaluated in the clinical laboratory, and
- ✓ Define monoclonal B cell lymphocytosis (MBL), understand how it differs from CLL/SLL, and understand its clinical significance.

**Session
12**

8:30 am - 12:00 pm
Intermediate
3 contact hours

**An Xpert Solution to Molecular Diagnostics, MDRO
Alphabe **Cancelled****

- Andrea Pierce, PhD, C(ASCP)

Senior Manager, Scientific Affairs
Cepheid
Sunnyvale, CA

The first part of the lecture will give an overview of Nucleic acids (DNA and RNA) and their function in the cell, including Nucleic acid chemical structures, PCR Basics, and an introduction to the some nucleic acid amplification/detection systems utilized by automated instruments. Also discussed are some examples of Current NAAT instrumentation technology. Specific examples will be given of Viral testing using NAAT, and Bacterial testing using NAAT. The second half will focus on MDRO organisms in the news and molecular and non-molecular methods of detection.

Objectives

- ✓ Describe nucleic acids and their function in the cell,
- ✓ Give an overview of PCR and automated NAAT technology and how to use NAAT to detect viral and bacterial pathogens, and
- ✓ Give background information on Enterobacteriaceae, and discuss molecular and non-molecular methods of detection of Carbapenem-Resistant Enterobacteriaceae.

Sponsor: Cepheid

**Session
13**

8:30 am - 12:00 pm
Intermediate
3 contact hours

Implementing and Maintaining IQCP

- Angela Carter

Director, Customer and Business Development
Response Biomedical Corp.
Vancouver, Canada

We will discuss implementing and maintaining IQCP, focusing on best practices and tips for maintaining a successful program. Areas we will cover include: 1) Risk Assessment - guidelines for comprehensive risk identification. 2) Quality Control Plan - eliminate and/or neutralize identified risks. 3) Quality Assessment - how to monitor the effectiveness of the QCP.

Objectives

- ✓ Describe the best practices for a successful IQCP,
- ✓ Discuss the role of quality control and quality assessment, and
- ✓ Outline the guidelines for risk identification.

Sponsor: Response Biomedical Corp.

Comparing & Contrasting Calibration, Calibration Verification, Linearity, and Daily Quality Controls in the Clinical Laboratory

- Glenn Mitchell

National Accounts Manager
AUDIT MicroControls Inc.
Renton, WA

This session will present and discuss the who's, what's, when's, why's, how's, and the joys of calibration, calibration verification, and daily quality controls! We will also present the differences between calibration verification and linearity as well as CLIA requirements for nonwaived (moderate and high complexity) test systems as they relate to calibration verification.

Objectives

- ✓ Describe the differences between calibration, calibration verification, linearity and daily quality controls,
- ✓ Discuss the impact of the above items on quality results, and
- ✓ Outline the protocol if any of the above items fail.

Sponsor: AUDIT MicroControls Inc.

Friday, April 15, 2016

Gastroenterology Update 2016

Session 14

8:30 am - 12:00 pm
Intermediate
3 contact hours

- **Betty White, RN, BSN, MN, NP-C**
Manager, Center for Crohn's and Colitis
Digestive Health Specialists
Tacoma, WA

We will include new information on laboratory testing specific for gastroenterology including tests to help diagnose and manage celiac, IBD, and other GI specific diseases. The discussion will also include the interpretation of the TB Quantiferon gold test as well as other laboratory tests that relate to GI issues.

Objectives

- ✓ Describe how to explain an indeterminate TB Quantiferon gold test,
- ✓ Describe how to explain the difference between celiac tests available, and
- ✓ Name 3-4 outcomes of the newest diarrhea panel.

Student Poster Session

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There is no charge to attend the poster session.

Check the ASCLS-WA website for more information about the poster topics.

Handouts

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**Session
15**

1:00 - 4:30 pm
Intermediate
3 contact hours

Replicate, Transcribe, Translate: A “Primer” in Molecular Processes and Methods.

- Nicolas Ohswaldt, MT(ASCP)SBB^{cm}

Reference Technologist III
American Red Cross
Portland, OR

This session will begin with a general refresher to the basic structure of DNA and the process of DNA replication, transcription, and translation. We will then take a look at the various methods in use for DNA analysis. Finally, the session will conclude with a discussion of “hot topics” where molecular methods meet clinical applications.

Objectives

- ✓ Identify the processes of DNA replication, transcription, and translation including the main “players” that facilitate the process,
- ✓ Relate the basic principles of molecular biology to current methods utilized in DNA analysis, and
- ✓ Discuss current applications where molecular testing methods may be utilized in the clinical laboratory.

Platelet Refractoriness, What to Order and Why?

- Shonna S. Sims, MBA

Clinical Services Manager
American Red Cross
Portland, OR

This session will cover the different HLA related tests that can be performed to help determine the cause(s) of platelet refractoriness.

Objectives

- ✓ Describe an overview of the different testing available for refractory patients,
- ✓ Discuss when to worry about platelet antibodies, and
- ✓ Discuss what do we do when HLA selected products are not available.

Sponsor: American Red Cross Pacific Northwest Region



Friday, April 15, 2016

Session 16

1:00 - 4:30 pm
Intermediate
3 contact hours

Diagnoses that Present in the Peripheral Blood Smear

- **Sindhu Cherian, MD**

Associate Director of the Hematopathology Laboratory
University of Washington
Seattle, WA

The hematology technologist is typically the first person reviewing a peripheral blood smear. Many diagnoses present with abnormalities that can be recognized on peripheral blood smear review. This session will focus on diagnoses that are suggested by abnormal findings noted on the peripheral blood smear during routine practice. Topics covered will be broad and will include hematopoietic neoplasms, infections, and hemolytic anemia. This session is intended to illustrate just how important peripheral blood smear review can be.

Objectives

- ✓ Identify features suggesting malignancy in the peripheral blood and describe additional testing that may be performed to reach a definitive diagnosis,
- ✓ Recognize abnormal findings in the peripheral blood smear that indicate infection, and
- ✓ Describe the significance of various red blood cell abnormalities identified in the peripheral blood smear.

Session 17

1:00 - 4:30 pm
Intermediate
3 contact hours

How to Take Your Automated Chemistry Testing to The Next Level

- **Anna Merrill, PhD**

- **Sheng-Ying (Margaret) Lo, PhD**

- **Pratistha Ranjitkar, PhD**

University of Washington
Seattle, WA

This session consists of three short presentations covering a diverse array of quality improvement projects relevant to any laboratory offering automated chemistry testing. Specifically, three speakers will cover the following topics: body fluids testing, implementation of pseudohyperkalemia alert system, and data-driven thresholds to identifying false negative results.

Objectives

- ✓ Describe the utility and validation of non-standard fluids,
- ✓ Discuss the causes of pseudohyperkalemia and outline a work flow for identifying samples at-risk for pseudohyperkalemia, and
- ✓ Design a strategy for detecting and correcting false negative results from automated analyzers.

**Session
18**

1:00 - 4:30 pm
Intermediate
3 contact hours

**The Culturally Diverse Workplace. How to Integrate,
Mentor, and Retain Your Employees**

- **Tiffany Bradshaw, MLS (ASCP)^{CM}**
Technical Supervisor
ARUP Laboratories
Salt Lake City, UT

This session will discuss the diversity seen in today's workforce and how managers can recognize the uniqueness and strengths this diversity brings to their organization. Participants will learn to examine their own communication style when working with culturally diverse groups, as well as retention strategies for strong performers.

Objectives

- ✓ Define intercultural competencies and identify characteristics of an intercultural competent manager and strong mentor,
- ✓ Recognize the needs of employees through verbal and nonverbal clues while integrating a diverse workforce in the laboratory, and discuss skills necessary to adapt your communication styles when working with a culturally diverse group, and
- ✓ List retention strategies

**Is There a Bully in the Room? What Laboratory Managers
Should Know about Workplace Bullying**

During this session, participants will examine how bullying in the workplace might be defined and specific examples of how these behaviors might be displayed. In addition, methods for addressing and dealing with bullying, as well as current legislative and organizational strategies, will be discussed.

Objectives

- ✓ Identify key characteristics of bullying behavior and specific examples of how this behavior might be displayed,
- ✓ Apply suggested techniques to address and change bullying behavior, and
- ✓ Discuss legislative and organizational strategies to prevent bullying in the workplace

Sponsor: ARUP Laboratories

Saturday, April 16, 2016

Session 19

8:30 am - 12:00 pm
Intermediate
3 contact hours

Board of Certification Jeopardy Style!

Led by our ASCLS-WA Student Representative Alex Steiner, New Professional Representative Jamie Choe, and student volunteer Heather Mayer.

Students who are getting ready to take the BOC in the near future or professionals who want to test their knowledge are welcome to come to this session to play some jeopardy! We will be going through all the laboratory categories such as Micro, Blood Bank, Chemistry, UA, Hematology, laboratory operations, and misc. All answers will be reviewed by our very own professionals who have taken and passed the test recently! This session is designed to give you a comprehensive review of questions and share knowledge of the testing process.

You will also have a chance to ask any questions you have about the BOC at the end of the session. So are you ready to play Jeopardy?

This session is not P.A.C.E. approved.

Session 20

8:30 am - 12:00 pm
Intermediate
3 contact hours

Molecular Testing: Where We Started. Where We Are Now. What Does the Future Hold?

- **Karen Tsuchiya, MD**

Co-director, Cytogenetics and Molecular Genetics
Seattle Children's Hospital
Seattle, WA

- **James T Bennett, MD, PhD**

Acting Instructor
Seattle Childrens Hospital, Seattle Childrens Research Institute
Seattle, WA

The presenters will provide a discussion on Molecular Testing. They will review the history of genetic testing in the clinical laboratory, including past and present molecular methods. The speakers will describe the molecular techniques currently in use and discuss their limitations. Molecular testing technology is evolving rapidly. The speakers will provide an update to current practices and give their insight into what the future holds for next generation sequencing and potential future applications.

Objectives

- ✓ Describe at least three molecular techniques currently used for testing in clinical laboratories,
- ✓ Discuss limitations of current molecular techniques, and
- ✓ Describe next generation sequencing and its current and potential future applications.

Saturday, April 16, 2016

**Session
21**

8:30 am - 12:00 pm
Intermediate
3 contact hours

A Tsunami of Change: Integration of Culture Based and Culture Independent Diagnostic Testing

- Xuan Qin, PhD, D(ABMM)

Associate Prof. UW Laboratory Medicine
Seattle Children's Hospital
Seattle, WA

Rapid and sensitive diagnosis of microbial infections is made possible by nucleic acid amplification technology. The molecular based technology is able to provide rapid diagnosis of microbial infections regardless of viral, bacterial, fungal, or protozoan etiology. A number of FDA cleared and fully automated platforms are available to provide rapid results with broad coverage of agents-- the so called "syndromic panels" for pathogen testing.

MALDI-TOF for bacterial and yeast identifications has entered mainstream diagnostic microbiology, so has nucleic acid amplification and sequencing technology. Their integrated use in microbiology labs has changed our way of practice forever. Work routine re-alignment is necessary to bring changes to bedside for ultimate patient care benefit.

Antibiotic susceptibility testing is traditionally performed on bacterial isolates that are capable of growth under standardized in vitro conditions post identification, and results are interpreted as "susceptible", "intermediate", or "resistant". New technologies are able to provide identification and susceptibility results simultaneously for patient care, infection prevention, and antibiotic stewardship.

Objectives

- ✓ Discuss the principles of rapid mega-multiplex PCR platforms for diagnosis of infectious diseases and how to make the right selections for your lab serving your patient population,
- ✓ Discuss the principles of mass spectrometry used for microbial identification and the implications of ever changing bacterial and fungal taxonomy, and
- ✓ Discuss the integrated use of molecular and phenotypic methods for bacterial susceptibility testing.



Saturday, April 16, 2016

Session 22

8:30 am - 12:00 pm
Intermediate
3 contact hours

Using Patient Safety Competencies to Improve the Quality of Laboratory Services

- **Catherine Otto, PhD, MBA, MLS(ASCP)^{CM}**

Dean
Shoreline Community College
Shoreline, WA

Incorporating patient safety competencies will help integrate laboratory services with those provided by other healthcare professionals. Adopting patient safety competencies into medical laboratory science practice will improve the quality of laboratory test information. Specific methods to incorporate patient safety into practice will be discussed.

Objectives

- ✓ Identify patient safety competencies required of healthcare practitioners to improve quality,
- ✓ List specific procedures and methods to improve laboratory patient safety, and
- ✓ Discuss one method to improve the quality of laboratory services for each of the patient safety competencies.

Session 23

1:00 - 4:30 pm
Intermediate
3 contact hours

Careers in Clinical Laboratory Science and Resume and Cover Letters

- **Heather Eggleston, MEd**

UW MLS Program Academic Adviser/Program Operations Specialist
University of Washington
Seattle, WA

- **Panel:**

Cecil Dunn, Retired Foreign Service Medical Lab Scientist

Jacqueline Hilyard, MT (ASCP), MT Coordinator,
St Anthony Medical Center, Gig Harbor, WA

Laurianne T. Mullinax, M.S., MLS(ASCP)^{CM}, UW MLS Undergraduate Program
Director, University of Washington, Seattle, WA

Verena Hanna, MLS (ASCP), UW MLS Masters Student and MT at Providence
University of Washington, Seattle, WA

Adam Shafer, Beckman Coulter Service Engineer

Get the inside scoop on different careers in Clinical Laboratory Science by hearing from professionals themselves in all different parts of the laboratory. There will be a 30 minute Q&A from the audience to give you a chance to ask your questions and also meet and network with the professionals. After you get inspired to either move up in your laboratory or change laboratories you will get the tools to do it by learning how to write personalized resumes and cover letters that will highlight your skills.

Objectives

- ✓ Describe possible career paths available in the clinical laboratory field,
- ✓ Network with different professionals in different fields to better connect laboratory professionals, and
- ✓ Describe the key elements to a great resume and cover letter that will get you an interview

Saturday, April 16, 2016

**Session
24**

1:00 - 4:30 pm
Intermediate
3 contact hours

**A Unique and Interesting Collection of Pediatric Cases
From the Common To the Complicated and Puzzling**

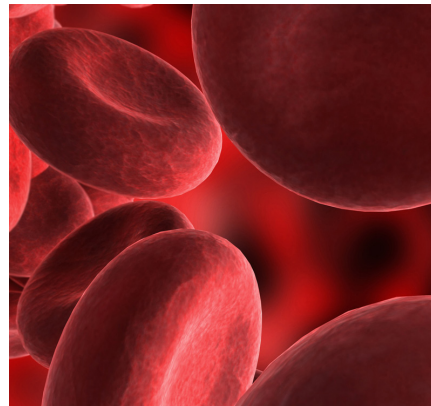
- Min Xu, MD, PhD

Seattle Children's Hospital
Medical Director for Seattle Children's Bellevue Laboratory
Seattle, WA

This session will provide a unique and interesting collection of pediatric cases ranging from hematologic malignancies, metabolic disorders, and autoimmune disease.

Objectives:

- ✓ Describe the diagnosis and prognosis of the diseases and disorders presented in the case studies,
- ✓ Discuss the value of some older methods of diagnosis, and
- ✓ Describe the differential diagnosis of the cases presented.



Saturday, April 16, 2016

Session 25

1:00 - 4:30 pm
Intermediate
3 contact hours

Microbiology is Never Boring – Past, Present, and Future

- **Siu Kei (Jacky) Chow, PhD, D(ABMM)**

Director of Infectious Diseases Diagnostics
MultiCare Health System
Tacoma, WA

The research and application of microbiology have been vigorous over the past century. The advancement of knowledge and technology in the field has promoted efficient clinical practice as well as accurate, rapid diagnoses of emerging/re-emerging infectious diseases. The speaker will provide updates on methodology, practice, and regulation in clinical microbiology. Recent highlights from the literature on laboratory function, epidemiology, clinical practice will be reviewed. The pros and cons of the latest technologies in microbial diagnostics will be discussed.

Objectives

- ✓ Describe the dynamics between knowledge and practice in clinical microbiology,
- ✓ Discuss the updates in clinical microbiology and their applications in medicine, and
- ✓ Discuss the potentials and limitations of the new technologies in clinical microbiology.

Session 26

1:00 - 4:30 pm
Intermediate
3 contact hours

Skills for Becoming an Effective Supervisor

- **Catherine Otto, PhD, MBA, MLS(ASCP)^{CM}**

Dean
Shoreline Community College
Shoreline, WA

You have recently been promoted to a supervisory position, now your role at work shifts from performing laboratory tests to helping others to perform their work in an accurate and timely manner. Using a pragmatic approach, this session will discuss theories and concepts with practical applications for the following topics: leadership styles, communication, motivation, handling problems, conflict, and disciplining.

Objectives

- ✓ Describe methods to enhance employee motivation and work place morale,
- ✓ List and describe steps to improve employee performance, and
- ✓ Given a situation, identify the primary problem and describe possible methods for resolution.

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.

Interested in joining ASCLS?

You can get member rates for this meeting!

All new members have the opportunity to join ASCLS and receive 15 months for the price of 12. You can go to www.ascls.org and click on “Join ASCLS” the horizontal menu bar running across the home page. There you will find the New Member Application. If you join through the ASCLS website **March 1, 2016 or later**, you will get a membership through July 31, 2017. By joining through the ASCLS website, you will have your member number mailed to you immediately. No waiting for snail mail.

OR

You can obtain a membership application that can be completed and mailed with a check at the following URL:

<http://www.ascls.org>

Remember that you have to be a **new member** and join after **March 1, 2016** to get the 15 months for the price of 12.

The 2016 Spring Seminar Program, registration form and any updates are available on the Internet at the following URL

www.asclswa.org/SpringSeminar.html

All information will be provided at this site. There is a registration form that you can print and mail with a check. Also, at this site there is a link to an online form that you can complete and pay using a credit card.

Registration General Information

To Register by Mail:

Complete the registration form and mail the registration form with a check payable to **Spring Seminar** to:

2016 ASCLS-WA Spring Seminar
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: April 1, 2016.** 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 **Spring Seminar** 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 April 10, 2016 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 on Session 1 is a full day session and lunch will be provided.
- **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.® credits.
- **Hotel reservations:** See the website for more detailed information. Please call the hotel for reservations. Mention “ASCLS-WA Spring Seminar” to get the seminar rates.
- **Hotel Rates** will be available until April 1, 2016 after which it will revert to standard hotel rates.
- **No “Spring Seminar” Registration refunds** will be issued.

Fees are by session. Sessions are 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: Spring Seminar. Note that Session 1 is a full day session.

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)

Student Registration

If you are a student in one of the Washington Clinical Laboratory Science education programs listed below, you may register for **one session at NO CHARGE** courtesy of ASCLS-Washington. See your Program Director for more information about this offer and for help in registering for the 2016 ASCLS-WA Spring Meeting.

Washington Clinical Laboratory Science Educational Programs:

- Clover Park Technical College MLT Program
- Heritage University CLS Program
- Providence Sacred Heart Medical Center MT Program
- Renton Technical College MLT Program
- Shoreline Community College MLT Program
- University of Washington MT Program
- Wenatchee Valley College MLT Program

Registration Form

2016 ASCLS-WA Spring Seminar
 April 14 - 16, 2016
 Red Lion Inn
 Renton, WA

*Online registration and credit card payment is available at
www.asclswa.org/SpringSeminar.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 session moderator? Yes No

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

Thursday, April 14	AM	1	2	3	4	5
	PM		6	7	8	9
Friday, April 15	AM	10	11	12	13	14
	PM	15	16	17	18	
Saturday, April 16	AM	19	20	21	22	
	PM	23	24	25	26	

Category	# Sessions	Fee/session	Total Fee
ASCLS/AMT Professional/Technical		\$45.00	\$
ASCLS # _____ AMT # _____			
Special Member		\$60.00	\$
__AABB __AACC __ASC __ASCT __CLMA __ASM __ASH __ASCP Member number _____			
Non-Member		\$80.00	\$
Phlebotomist		\$35.00	\$
Student		\$25.00	\$
Session 1, Packing & Shipping Certification, All day Thursday		\$60.00	\$
Total Fee			\$

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Spokane, WA 99203-1818

Full payment in U.S. Dollars must accompany each mailed in
 registration. Make check payable to **Spring Seminar**
 Mail by April 1, 2016 to assure timely arrival
OR
 Online registration with credit card payment is available at
www.asclswa.org/SpringSeminar.html