2016
Northwest Medical Laboratory Symposium

October 12 - 15, 2016
Holiday Inn, Portland Airport
Portland, OR

The American Society for Clinical Laboratory Science (ASCLS) and the American Medical Technologists (AMT) invite you to join us in Portland, OR for this year’s Symposium. Our clients, patients, and colleagues in the allied health professions rightfully expect and deserve that, as medical laboratory professionals, we 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 cover topics in every aspect of laboratory medicine, including research, testing, and management. In addition to educational opportunities, you will not want to miss out on the chance to network with fellow laboratorians. The Exhibit Hall, an 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.

Who: All Are Welcome to Attend
What: The Major Laboratory Exhibit in the Northwest
Where: At the 2016 Northwest Medical Laboratory Symposium
Why: Don’t miss a chance to see “state of the art” analyzers. Talk to vendors and ask questions. And it’s FREE! Free Guest passes available

When: Exhibit Hall Open for Three Days! Wednesday Oct 12: 11:45 am - 2:15 pm Thursday Oct 13: 11:45 am - 2:15 pm Friday Oct 14: 11:45 am - 2:15 pm

RSVP: Send in your NWMLS registration ASAP. Mailed or on-line registration available.
P.A.C.E. Credits: Free P.A.C.E. credits are available for anyone attending the exhibits and completing an exam.

Featured Exhibitors

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Check the website as more are added!
http://www.asclswa.org/Exhibitors2016.html

http://www.asclswa.org/NWMLS.html

Page 1 • Complete 2016 NWMLS Program Information at www.asclswa.org/NWMLS.html
Interesting Cases in Hematology and Flow Cytometry
— Teresa Gauthier, MLS (ASCP), PeaceHealth Laboratories
— Jennifer Embers, MLS (ASCP), PeaceHealth Laboratories
An interactive presentation of various case studies spanning Bone Marrow Failures, Hemolytic Anemia and Lymphoproliferative Disorders. Cases studies to include PNH, aplastic anemia, myelodysplasia, AIHA, HUS, Hereditary spherocytosis, CLL, reactive lymphocytosis, Multiple Myeloma and perhaps a few more esoteric diseases.

The ABCs of Hepatitis Testing
— Denise L. Uettwiller-Geiger PhD, DLM(ASCP)
Ortho Clinical Diagnostics
This session provides attendees with an overview of laboratory tests used to aid physicians in the diagnosis of viral hepatitis. The speaker will also review the CDC Guidelines for hepatitis screening and touch on the differences in commercially available hepatitis C assays.

Changing Biomarker Landscape in Heart Failure and Acute Kidney Injury
Attendees will learn about the incidence and implications of acute kidney injury (AKI) and new biomarkers that can predict patient AKI risk. Attendees will also gain a broader understanding of heart failure biomarkers and their limitations in patients being treated with the new heart failure drug ENTRESTO™.
Sponsor: Ortho Clinical Diagnostics

Cell Free DNA Screening: Much More Than A ‘Baby Gender’ Test
— Heather C. Dorsey, MS, CGC, InformedDNA
Roughly five years ago, cell free DNA based technologies became clinically available to help screen for Down syndrome during pregnancy. This technology has rapidly evolved by both screening for increased numbers of conditions and by being offered to a greater number of women during their pregnancy. The impact of the introduction of cell free DNA based screening on the field of prenatal diagnosis cannot be underestimated. Participants in this session will learn about the benefits and limitations of cell free DNA screening, what the future may hold, and current struggles with the rapid introduction of this powerful new technology into prenatal care.
Sponsor: InformedDNA

Clinical Indications: 25 Hydroxyvitamin D & 1,25 Dihydroxyvitamin D
— Steven Brimmer, PhD, DiaSorin, Inc.
The laboratory often needs to guide clinicians on which Vitamin D test should be ordered for status and which test should be ordered for differential diagnosis. To do this well, technologists need to understand the ‘pros and cons’ for the various methods to determine 25-Hydroxyvitamin D and 1,25 Dihydroxyvitamin D, and the levels that constitute sufficient, insufficient, and deficient vitamin D status. Vitamin D testing has been used for a variety of reasons in the past. The presentation will also review the recent guidelines and which clinical indications the guidelines suggest in determining the patient’s vitamin D status. Additionally, the discussion will cover the biochemistry of producing the active form of vitamin D (1,25 Dihydroxyvitamin D) and disease states for which it would be helpful to utilize this test.
Sponsor: DiaSorin, Inc.

What I Wish You Had Told Me Before I Agreed To Be A Supervisor
— Karl E. Kamper, MT(ASCP), FACHE,
Willamette Valley Med Center
Do you remember your first supervisor job? This course for technologists and leaders at all levels isn’t just another lecture class. We will learn together and from each other as we discuss the CLSI Quality Management System Model, and apply these familiar lab principles to leadership.

Implementing and Maintaining IQCP
— Jessica Wilson, Response Biomedical Corp
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.
Sponsor: Response Biomedical Corp.

Oregon State Agency CLIA Program and CLIA Updates
— Stephanie B Ringsage, BS MT (ASCP)
OHA/Public Health Division/OSPHL
The speaker will present a CLIA update with a focus on the Oregon State Agency (SA) CLIA program and the oversight of clinical laboratories that have been issued a certificate of waiver (CoW) or certificate of Provider Performed Microscopy Procedure (PPMP) as well as the survey and certification activity for laboratories issued a certificate of compliance (CoC) or accreditation (AoC). Items to be discussed will include the SA responsibilities for survey and certification activity including data entry for non-Federal laboratories within the state, enrollment of total number of laboratories, certificate types, and more.
Sponsor: OHA/Public Health Division/OSPHL

Updates in Autoimmune and HIV Testing
— David J Tomichuk MBA, MT(ASCP)
Bio-Rad Laboratories
The Autoimmune session will briefly summarize current technologies of Immunofluorescence, Enzyme Immunoassay, and Multiplex testing and their advantages and disadvantages as it relates to disease. The HIV session will look at the history and current status of HIV testing and its implications in relation to the CDC guidelines.
Sponsor: Bio-Rad Laboratories

Visit the Exhibits tomorrow. Relevant information. And free P.A.C.E. credit.
Using Inventory Management to Drive Business Performance
— Brenda Hastie, MLT(ASCP)CM, BBCM, CCM, HCM
Ortho Clinical Diagnostics
This session provides attendees with a basic foundation in automated inventory management and the business justification to adopt the approach

Minding the Gaps!
— Barbara Snyderman MLS(ASCP)CM, DLM(ASCP)
Ortho Clinical Diagnostics
Due to delayed retirements, for the first time laboratories have employees across four generations. The speaker will define the characteristics of each generation as well as outline how to better communicate, understand and motivate them, hoping to create more harmony in our workplaces.

Pre-Analytical Variables in the Coag Lab: Why Do They Matter?
— Katherine (Katy) Wheelchel MT(ASCP)SH
Diagnostica Stago, Inc
Coagulation testing is particularly valuable in pre-analytical variables. This session will help identify best practices to minimize the variables that impact patient results.

Commonly Asked Coagulation Questions on the CAP Checklist
CAP has added several new sections to the Coagulation Checklist in recent years, including Analytical Measurement Range, Calibration Verification, and Laboratory developed tests. This presentation will seek to clarify the confusion on these requirements and discuss ways to meet these requirements. We will also discuss the requirements in using D-Dimer for VTE exclusion.

MPV - An Old “New” Parameter, Plus New Anemia Parameters
— Kathy Davidson Altig, MT(ASCP), Beckman Coulter
MPV is a parameter most of us ignore, or may not even report. Learn how to help diagnose thrombocytopenias with the patient’s first CBC. And, then discover more about the CBC, more complete than ever: how new Hematological Parameters are revolutionizing the oldest and most ordered test in the laboratory.

Opiates: Structure, Metabolism, and Interpretation of Urine and Oral Fluid Test Results
— Greg Grinstead, PhD, Legacy Laboratory Services
This session focuses on six opiates that are commonly prescribed, commonly used, and widely tested for in workplace drug testing and pain management compliance programs: morphine, codeine, hydrocodone, hydromorphone, oxycodone, and oxymorphone. We will cover the key structural features of each drug, major routes of metabolism, and interpretation of urine and oral fluid test results.

Understanding the Opioid Public Health Crisis
— David K Roberts, PhD, Legacy Laboratory Services
An opioid public health crisis continues to claim lives to the point that overdose deaths from opioids is now the number one public health concern in the Pacific NW and in the U.S. Opioids include both prescription drugs as well as illegal drugs. With increasing prescriptions paralleling deaths from opioid overdose, virtually all aspects of health care are impacted. Laboratories are uniquely positioned to help in the diagnosis of opioid related disorders. This talk provides background information regarding opioids and is designed to position the laboratory to act as a resource for front line health care providers dealing with the opioid crisis.

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Digital Cell Morphology, Improving Efficiency, Quality and Connectivity of the Clinical Laboratory
— Scott Dunbar, BS, MS, Cellavision
Using advanced software neural networks, this session will cover how Digital Cell Morphology can improve the bottleneck in Hematology, the differential bench in the laboratory. The session will also demonstrate how to improve the consistency from technologist to technologist in the laboratory. Finally, the session will end with case studies of peripheral blood smears and body fluid cyto-spin differentials.

From Bacterial Testing to Pathogen Reduction, What’s New
— YanYun Wu, MD, Bloodworks Northwest
This session will discuss upcoming new rules on bacterial testing and recent updates on pathogen reduced blood products. The second topic will cover new or emerging options for blood products, such as liquid plasma, plasma and platelets with low titer, and others. The final topic will give updates on TRALI risk mitigation.

Don’t Take That Antibiotic. You Might Get...Fat? The Science of Healthy Microbiome
— Norman Moore, PhD, Alere
Antibiotic resistance is a major global health threat. Yet, patients still demand antibiotics and doctors still prescribe them without identifying the etiological agent and tailoring therapy to it. New data is now showing links between disruption of our normal flora and a variety of diseases. This talk will explore the links to our microbiota and obesity, autism, and other medical issues.

The Role of Lactate in the Risk Assessment of Sepsis Morbidity and Mortality
— Monet N. Sayegh, MD, MS, BSMT(ASCP)SH, CLS
The value of measuring lactate levels is expanding. It can be particularly useful in ICU and ED settings where the presentation of symptoms may be inconclusive while diseases progress rapidly with severe pathology. Lactate testing can open a critical window for early intervention when treatment is most likely to be successful.
Genomics and Proteomics - Is This The End Of ‘Culture’ In Microbiology?
— Susan Sharp, PhD, Kaiser Permanente
This first session will begin with a discussion of some of the advantages and disadvantages associated with the newer rapid multiplex infectious disease assays. Emphasis will be placed on new molecular diagnostics for sepsis, as well as new methods that allow for rapid identification of bacteria and yeast in the microbiology laboratory.

Microbiology - Jeopardy
— Margret Oethinger, MD, PhD, Providence Regional Lab
The second session will be an interactive game of who knows what it is? The emphasis will be on microorganisms in the human body across different domains, as seen through the eyes of an Infectious Diseases Histopathologist. To keep the guessing game limited we will also see straight gram stains or photographs of conventional culture plates. The main goal is to have fun while we learn!

Case Studies in Clinical Microbiology
— La’Tonzia L. Adams, MD, MS, Portland VA Healthcare System
This final session will discuss various rare cases with interesting clinical presentations. There will be a discussion of the entity and the microbiological diagnostics used to identify each case.

Interpreting Serum Protein Electrophoresis and Hemoglobin HPLC/Electrophoresis Results
— Kevin Foley PhD, MT, Kaiser Permanente, NW
We will discuss the clinical relevance and interpretation of SPEP and Hemoglobin testing. This will include clinical background, review of normal and abnormal results, and case studies from real patients.

Uncovering The Hidden, High-Risk Cardiac Patient
— John Corso, MD, High Lakes Health Care
In this session, attendees will be introduced to the most current, and now widely available laboratory technology, to better evaluate the often-hidden cardiac risks in their patients by evaluating LDL Particle counts and size distribution, as well as highly specific inflammation markers. The paradigm for risk evaluation is undergoing dramatic change with new and better understanding of the atherosclerotic process.

Biosafety and Emerging Infectious Diseases
— Gina Ramoz, MBA, Oregon State Public Health Lab (OSPHL)
This session will discuss practical tips and advice, the need for increased awareness against potential laboratory hazards, and the importance of conducting a "self-risk assessment" when working to address emerging infectious disease threats that face our nation. The focus will be on laboratory risks and acquired infections (LAI’s), personal protective equipment (PPE), engineering controls, and other risk mitigation strategies.

How to Stop Clinicians From Ordering Stupid Tests
— Kevin Foley PhD, MT, Kaiser Permanente, NW
This is a laboratory utilization discussion. We will discuss the lab’s role in addressing poor lab utilization by discussing issues around, obsolete tests, abuse of stats, duplicate tests, using a send-out test formulary, and how we can use the electronic medical record (EMR) to aid and guide clinicians in test selection. This is a fun talk meant to be entertaining and informative. Come share your lab’s pain with the group as we empower lab professionals to help drive appropriate test utilization.

What’s New in the Blood Bank: RBC Genomics, RhD, and Zika
— Meghan Delaney, DO, MPH, Bloodworks NW
— Mary Jo Drew, MD, MHSA, Transfusion Medicine Consultant
In this session the technique and uses of red blood cell genotyping will be described. Case examples will be used to show how red cell genotyping can improve transfusion medical care. A deeper review of the complexities of the RH blood group will be reviewed, including Weak D. Finally there will be an update on the concerns surrounding the Zika virus and its impact on the U.S. blood supply.

Sponsor: Bloodworks NW

Clinical Utility of Tumor Markers in the Management of Breast and Prostate Cancer
— Monet N. Sayegh, MD, MS, BSMT(ASCP)SH, CLS
Siemens Healthcare
Biomarkers play a useful role in the diagnosis and treatment of cancer. The use of PSA can detect prostate cancer as 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, 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.

Sponsor: Siemens Healthcare

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Sponsor: Quest Diagnostics

Fitting Linear Quadrupoles and Round Flight Tubes into the Square Clinical Laboratory: The What, Where, and Why of Clinical Mass Spectrometry with Quality Needs for Success Identified
— Frederick G Strathmann, PhD, DABCC (CC, TC)
University of Utah and ARUP Laboratories
This session will discuss clinical applications of mass spectrometry, including a highlight of the most common types of mass spectrometry used, areas of laboratory medicine where each method has found success, and comparisons of these technologies for specific applications. I’ll also touch on some old and some new challenges that face every laboratory using mass spectrometry in the clinical environment. An emphasis on quality improvements applicable to mass spectrometry and non-mass spectrometry laboratories will be included.

Sponsor: ARUP Laboratories

Automation in Blood Banking
— Rachelle Barrett, MLS(ASCP)SBB
Portland Adventist Medical Center
Probably the last section of the laboratory to accept automation, the Blood Bank has seen much change over the last several years in technology. How did we get here and what are the obstacles in choosing the optimal automation? This discussion will cover automation in Transfusion Services, Donor services, and LIS Systems. We will look forward and discuss future technological advances in both Transfusion Service and Donor Centers.

Sponsor: Siemens Healthcare
CDC’s Division of Parasitic Diseases (DPDx) Program
Telediagnosis with the Oregon State Public Health Laboratory (OSPHL)
— Dustin Brown, MT(ASCP), Oregon Institute of Technology

Parasitology via Telediagnosis will include the use of digital imaging aids in the rapid diagnosis of unusual or difficult parasite samples using micro-photography and the Internet. This session will also be an overview of the service including interesting parasites and case studies from the Oregon State Public Health Laboratory, in conjunction with the Division of Parasitic Diseases (DPDx) at the Centers for Disease Control & Prevention (CDC).

Not Your Mother’s PKU Test—What Is New in newborn Screening?
— Becky J Whittemore, MPH, MN, FNP-BC
Oregon Public Health Laboratory

Newborn screening has changed dramatically in the past 10 years. From the simple PKU test over 50 years ago to the identification now of 54 different disorders, screening during infancy has become a valuable tool for health care providers. Overview of the groups of disorders identified and the techniques used to collect the specimen will be discussed. Future plans for screening and interfacing with facilities are changes that may affect many laboratories.

Sponsor: Oregon Public Health Laboratory

The Institutional Antibiogram: Is thece The Squeeze? Who Is The Consumer?
— Scott Weissman, MD
Seattle Children’s Hospital

CLSI provides guidelines for the preparation and presentation of annual institutional antibiograms. In practice, there is considerable variability in the actual workflow followed by clinical microbiology laboratories, as well as variability in presentation to and engagement with various stakeholders in clinical care and Infection Prevention. Emerging concerns about growing antibiotic resistance and shrinking antibiotic development pipelines have led to re-examination of traditional antibiogram-related practices and highlighted new opportunities for maximizing the value to be extracted with minor modifications to existing workflow. This lecture will explore these opportunities (including Antimicrobial Stewardship and One Health approaches) and associated challenges.

Introduction to Clinical Research
— Patricia DeTurk, MST, MT(ASCP)
Clackamas Community College

This session covers the basics of clinical research and the dynamics of setting up clinical trials. We will discuss the roles within the research team and their responsibilities as well as the purpose for the different phases of clinical testing. Included will be a discussion of proper data collection and Informed Consent. We will also cover how to recognize and address Research Misconduct.

Bioelectronic Medicine: Devices for Measuring and Modulating Nerves and Organs
— Thomas J Richner, PhD
University of Washington

Every organ is innervated and is to some degree regulated by the nervous system. The visceral organs are regulated by the autonomic nervous system. The visceral organs are regulated by the autonomic nervous system. The visceral organs are regulated by the autonomic nervous system. The visceral organs are regulated by the autonomic nervous system. The visceral organs are regulated by the autonomic nervous system.

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Sponsor: Oregon Public Health Laboratory

Causes of Anemia
— Sarah Lowry, MSN, ACNP-BC, AOCNP
— Lisa Radcliff, DNP, AOCNP
Oregon Health & Science University

We will start with a basic overview of lab findings related to anemia that may be evaluated in a primary care practice. We will then proceed to a more advanced discussion of the appropriate work up of anemia in a hematology clinic. This will include a review of differential diagnoses and recognition of emergent situations. Case studies are included.

Biodivue and Neurotechnology to Improve Quality of Life After Brain and Spinal Cord Injury
— Chet T. Moritz, PhD
University of Washington

Neuroprosthetic devices that interact with the nervous system by recording and stimulating have tremendous potential to improve quality of life after brain and spinal cord injury. Neuroprostheses have progressed from animal studies to human trials, including ongoing work using brain activity to control Functional Electrical Stimulation (FES) of paralyzed hand muscles. Another promising method for enabling rehabilitation and plasticity is spinal stimulation. Both epidural and intraspinal stimulation can activate neural circuits distal to an injury, leading to either direct muscle contraction or facilitating therapy and enabling volitional movements. Work is underway to merge these methods and develop a brain controlled spinal stimulation system to restore volitional control of limb movements.
Registration General Information

To Register by Mail:
Complete the registration form and mail the registration form and check payable to NWMLS to:
2016 Northwest Medical Laboratory Symposium
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203-1818

If questions:
Contact: BrenKoch@comcast.net (email contact is preferred)
Phone: 509-939-8445 (leave message) Call before 8 pm please.

» Registration mail postmark by date: September 26, 2016. This assures that your form will be delivered in time for us to provide you with the information to access the handouts.

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

» Registrants using the online form must have a completed registration by October 3, 2016 to receive lunch if eligible.

• Lunch is provided for those that register for two sessions (morning and afternoon) 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. Ask for the “Northwest Medical Laboratory Group Rate” to get the seminar rates. Rates will be available until September 27, 2016 after which it will revert to standard hotel rates.
• No “NWMLS” Registration refunds will be issued for non-attendance.

Fees are by session. Each session is 3 hours (half day), except for the evening session. 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. The evening session has one rate for Technical (members, nonmembers, and special members) and another rate for Phlebotomists and Students.

Hotel and Convention Center

Detailed information including driving directions may be found online at www.asclswa.org/NWMLS.html

All Sessions will be held at the Holiday Inn, located at 8439 NE Columbia Blvd. Portland, OR.

Rates for NWMLS attendees are $99.00 for a single/quad plus state and local tax.

Attendees can call the hotel directly at 503.256.5000, or toll free at 855.642.6271 and ask for the Northwest Medical Laboratory group rate.

Room reservations are also available on the hotel website at www.hiportlandairport.com. To obtain the correct rate insert the group’s code: MED

Rates are held until September 27, after which room rates are at the discretion of the hotel.
First Name ________________________________________ Last Name _______________________________________
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Are you willing to serve as a moderator?  [ ] Yes  [ ] No

Circle the sessions you will be attending.

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Mail with check to
2016 NWMLS
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203-1818

Full payment in U.S. Dollars must accompany each mailed registration. Make check payable to **NWMLS**
Mail by September 26 to assure timely arrival

**OR**

Online registration with credit card payment is available at
**www.asclswa.org/NWMLS.html**
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The full program description, objectives and additional information can be found in the online book at www.asclswa.org/NWMLS.html

* 32 CE sessions * Exhibit Hall * Registration Form * Hotel Information