The 2012 Northwest Medical Laboratory Symposium (NWMLS) offers laboratorians a unique opportunity to keep current in laboratory medicine, learn new information, view the latest in laboratory technology and network with your peers. In order to be a viable, competent, employable professional in the laboratory today, we must continue to expand our knowledge of the cutting edge technology and new testing available. Only by staying current through education seminars and talking with the vendors at the exhibits will you maintain that expertise and continue to be an integral employee in your facility. The NWMLS has traditionally offered a variety of topics to meet everyone’s needs and the best opportunity to obtain the continuing education credits required to maintain certifications.

Who’s Coming to the NWMLS Exhibit Hall?

Abbott Diagnostics
Advanced Instruments, Inc
ARKRAY
Audit MicroControls
BD Preanalytical Systems
Beckman Coulter, Inc
Bio Rad Laboratories
CACMLE
Cepheid
CompuGroup Medical
Delivery Express
Diasorin
EMD Millipore
Fisher Healthcare
Global Focus Marketing
Immuno Diagnostics Systems
Instrumentation Laboratory
Iris Diagnostics
Medtox Laboratories
Mindray Medical
Modern Laboratory Services
m-u-t America
Quest Diagnostics
Rees Scientific Corp
Roche Diagnostics
Sekisui Diagnostics
Scientific Supply and Equipment
Siemens Healthcare Diagnostics
Siemens Industry
Stago
Sysmex America, Inc
The Binding Site
Thermo Scientific (Remel, Trek)
Tosoh Bioscience
U.S. Army Healthcare

Who: All are Welcome to Attend
What: The major Laboratory Exhibit in the Northwest
Where: At the 2012 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!
Guest passes available to non-registrants. Free P.A.C.E or AMTrax credit when completing an exam.
When: Exhibit Hall Open for Three days!
   Wed., Oct. 17: 12:00 pm - 2:30 pm
   Thurs., Oct 18: 12:00 pm - 2:30 pm
   Fri., Oct 19: 12:00 pm - 2:30 pm
RSVP: Send in your NWMLS registration ASAP. Registration must be postmarked by October 1.
Exhibitor list updated on the web, so check back often. www.asclswa.org
Educational Program

Wednesday, October 17, 2012

Session # 1
8:30 AM - 11:45 AM  3 Contact Hours  Intermediate

Role of Proficiency Testing in Laboratory Quality
CLA regulations mandate PT participation for a list of analytes, the grading criteria for acceptable performance, and the “rules” that participants must explicitly follow. The CDC 2008 report lists 21 recommendations to improve PT including: addition of more laboratories (currently waived testing is not included in the process), expansion of the number of “regulated” analytes, changes in data collection and analysis, process improvement and evaluation, and education to change current laboratory practices.

Point of Care Strategies to Meet the Regulations: CLIA, CAP, TJC
If you are a Point of Care Coordinator or supervisor and are planning for POCT’s next inspection or survey, this session is for you. This presentation will provide you with an up-to-date insight for getting ready for the inspector and the latest POCT regulations. Strategies are provided to successfully comply with the numerous and often confusing regulations and to find and correct problems before inspection.

SHARON S. ERNMEYER, PHD, MT(ASCP)
University of Wisconsin School of Medicine & Public Health

Visit the Exhibits
12:00 to 2:30 PM

Session # 2
8:30 AM - 11:45 AM  3 Contact Hours  Intermediate

Impact of On-Demand PCR Testing
A basic level description of Cepheid’s GeneXpert technology and menu offering is this session’s focus. Discussed will be the impact of on demand PCR technology and how it can transform processes inside and outside of laboratory.

KIM GILONSKE, CLSP(MB), MT(ASCP), CLS(NCA)
Cepheid

Sponsored by Cepheid

Session # 3
8:30 AM - 11:45 AM  3 Contact Hours  Intermediate

A Research and Clinical Trial Primer
"A research and clinical trial primer" will cover the basics of conducting research from a regulatory perspective. It will cover the basics of clinical trial regulations in a historical context.

MARK SCHUSTER, MS, CIP
Providence Health & Services

Session # 4
2:30 - 5:45 PM  3 Contact Hours  Intermediate

Acute Lymphoblastic Leukemia
The history of treatment and diagnosis up to modern day diagnosis using Minimal Residual Disease protocol will be discussed in this session.

GUANG FAN, MD
Oregon Health & Science University

Session # 5
2:30 - 5:45 PM  3 Contact Hours  Intermediate

Blasts and Other Disturbing Cells I Have Known and Loved!
Using a case study approach this session will review the morphology of many of these tougher, younger cells. You will see a lot of microscopic images, and you’ll be looking for patterns to help you associate these troublesome cells with the probable cell type and hence diagnosis.

LYNN MAEDEL, MS, MLS(ASCP)SHC™
CACMLE, Inc.

Did You Know?
P.A.C.E. and AMTrax Contact Hours are available for attending the Exhibits. All you have to do is correctly answer 15 or more on a 25 question 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 1.5 contact hours at no charge!
### Session #6
2:30 - 5:45 PM  
**Molecular Approaches for the Detection of Agents of Communicable Diseases at the Oregon State Public Health Laboratory**

Molecular test methods currently utilized at the Oregon State Public Health Laboratory will be presented in theory and application. These molecular methods include but are not limited to PCR, real-time RT-PCR, Sequencing, and Pulse Field Gel Electrophoresis. The importance of the results obtained from these test methods in communicable disease testing, outbreak investigations, disease surveillance and bioterrorism agent testing will be discussed.

**LaDonna M. Grenz, MS**  
Oregon State Public Health Laboratory

### Session #7
8:30 AM - 11:45 AM  
**Newborn Screening Lab Issues**

Specimen collection and lab issues in Newborn Screening will be the focus. We will cover questions such as: What is a good specimen? Why do I have to fill the form out by hand? How many tests are done on one sample? Why do I get false positives?

**David Sesser, BA**  
State of Oregon Public Health Laboratory

**Becky J. Whittemore, MN, MPH, FNP**  
Oregon Health & Science University

### Session #8
8:30 AM - 11:45 AM  
**Thyroid Disorders**

What are the several types of thyroid problems and the laboratory procedures and treatment? How do the other hormones in the body relate? Case studies will be presented.

**Susan Allen, ND**  
Triangolo Family Clinic

### Session #9
8:30 AM - 11:45 AM  
**Those Bodacious Body Fluids**

Body fluids don’t have to be that scary. This section 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.

**Lynn Maedel, MS, MLS(ASCP)SHCM**  
CACMLE, Inc.

Don’t Be Afraid, It’s Just a Body Fluid

We will establish a logical approach to the often feared hematologic examination of CSF, serous, and synovial fluids, including a brief introduction into the pathophysiology of these fluids – why they are there and why we test them. Emphasis will be cell identification in the various fluids and differentiation of benign and malignant cells. Cell counting techniques, both manual and automated will be discussed.

**Wendy Dryman**  
Sysmex America, Inc.

### Session #10
8:30 AM - 11:45 AM  
**Flow Cytometry: Making Sense out of all the Fluorescence**

This session will introduce the basics of Flow Cytometry to laboratory professionals. We will cover general design of flow cytometers, basic Immunology, and phenotypes of various neoplasms, as well as explore how cytometers are used to help evaluate diseases and therapies.

**Dave Osborn, MT(ASCP)**  
Beckman Coulter, Inc.

Visit the Exhibits  
12:00 to 2:30 PM

Sponsored by Beckman Coulter, Inc.
### Session # 11
2:30 - 5:45 PM  
3 Contact Hours  
Intermediate

**An Update on Iron Metabolism**

Recent advances in our knowledge about iron metabolism will be presented. Case studies to illustrate the role of the laboratory in diagnosis and differentiation of blood disorders related to iron metabolism will be used.

**Shirlyn McKenzie, PhD, MLS(ASCP)CM, SH(ASCP)CM**  
University of Texas Health Science Center

### Session # 12
2:30 - 5:45 PM  
3 Contact Hours  
Intermediate

**Leading the Millennial Generation**

Generational differences exist throughout the 20th Century, presently with the Millennial Generation, those born in the 1980s and 1990s. This unique generation is the largest generation in the US today and is taking the workplace by storm. Are you prepared to manage this group, or be managed by them?

**Jeffrey B. Lavender, MBA, MT(AMT)**  
American Medical Technologists

### Session # 13
2:30 - 5:45 PM  
3 Contact Hours  
Intermediate

**Billing for Point of Care Testing: the Good, the Bad and the Ugly**

We begin by taking a short trip down Point of Care Memory Lane, and end with an overview of billing for Point of Care Testing. You will learn how to write a billing plan that will work for your institution.

**Robert Newberry, MT(AMT), POCS(AACC)**  
Yuma Regional Medical Center

### Session # 14
2:30 - 5:45 PM  
3 Contact Hours  
Intermediate

**Systemic and Organ-Specific Autoimmunity: Principles and Lab Applications**

Beginning with a description of autoimmunity, we will move to the mechanisms associated with the manifestations associated with clinical disease. Various autoimmune diseases, both systemic and organ-specific are described with information on clinical evaluation of the patient, the role of the clinical lab in diagnosis and monitoring, and treatment options. The session will end with a variety of case presentations, highlighting the diagnostic challenges and on the interpretation of relevant laboratory testing.

**Melissa R. Snyder, PhD**  
Mayo Clinic

### Session # 15
8:30 AM - 11:45 AM  
3 Contact Hours  
Intermediate

**The Future of Clinical Lab Science**

This session will look at the challenging, rapidly changing but exciting future of Clinical Laboratory Science in the United States. We will address the WHY in healthcare in America, the WHAT will need to change in the clinical laboratory to bring about personalized medicine, and the HOW the clinical lab will look in the future.

**Robert Newberry, MT(AMT), POCS(AACC)**  
Yuma Regional Medical Center

### Session # 16
8:30 AM - 11:45 AM  
3 Contact Hours  
Basic

**Healthcare in Russia and China**

The cultural characteristics and the health care system in Russia and China will be our focus, including accessibility, regulations, health insurance, and concerns. Emphasis will be on the issues and challenges of the laboratory professionals in these countries including education, career ladder and status.

**Shirlyn McKenzie, PhD, MLS(ASCP)CM, SH(ASCP)CM**  
University of Texas Health Science Center

### Session # 17
8:30 AM - 11:45 AM  
3 Contact Hours  
Intermediate

**Concepts in Quality Control Data Management and QC for Infectious Disease Testing**

This session will build a foundation of basic and intermediate Quality Control principles. Upon this foundation, this session will explore what are current best QC practices for Infectious Disease testing in today's laboratories.

**Joshua X. Pulido, MLS(ASCP) CM**  
Bio-Rad Laboratories, Inc.

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**Did You Know?**

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Educational Program

Friday, October 19, 2012 cont.

Session # 18

8:30 AM - 11:45 AM  3 Contact Hours  Intermediate

Myeloma Patients: New Screening Updates for Improved Outcomes

Patients with multiple myeloma (MM) and other monoclonal gammopathies often initially present with a myriad of non-specific symptoms. Freelite™ is a highly specific, quantitative and fully automated approach to measure free lambda and kappa light chains in the serum and provides a sensitive indicator of patient status in the diagnosis, treatment and remission of Multiple Myeloma (MM) and other B-cell dyscrasias.

Anne L. Sherwood, PhD
The Binding Site, Inc.

Sponsored by The Binding Site, Inc.

Visit the Exhibits
12:00 to 2:30 PM

Session # 19

2:30 - 5:45 PM  3 Contact Hours  Intermediate

The 21st Century View of Chronic Lymphocytic Leukemia

Once upon a time, this was the “good” malignancy. It only affected the elderly and you died from something else. Now, it has multiple forms, different medications, can be seen in teenagers and some think might be tamed, if not cured, within the next decade. This presentation will put together a new jigsaw puzzle to picture CLL.

Susan J LeClair, PhD, CLS (NCA)
University of Massachusetts

Session # 20

2:30 - 5:45 PM  3 Contact Hours  Intermediate

Bedbugs, Ticks and Their Not-So-Furry-Friends

If you spent a lot of time in the second half of the 20th century, you probably never heard of bedbugs, ticks, mosquitos and other small but not furry friends until now at the beginning of the 21st century where they have made a dramatic world-wide comeback. This session will focus on the natural and human-enhanced occurrence of bedbugs as well as how to identify them and curtail their presence.

James T Griffith, Ph.D., CLS(NCA)
University of Massachusetts

Friday, October 19, 2012 cont.

Session # 21

2:30 - 5:45 PM  3 Contact Hours  Intermediate

Therapeutic Monitoring and Reversal Agents for New Blood Thinners

The new blood thinner drugs present unique challenges to the laboratorian. Join us as we discuss lab monitoring and reversal agents.

Mick Scanlan, MD
Oregon Health & Science University

Saturday, October 20, 2012

Session # 22

8:30 AM - 11:45 AM  3 Contact Hours  Intermediate

The Molecular Basis of Polycythemia vera and other Myeloproliferative Neoplasms

In 2005, a genetic mutation (JAK2) associated with over 90% of all patients with Polycythemia vera was announced. Since then, additional mutations have been located. Due to this knowledge, the standard laboratory tests for polycythemia have been put aside and new medications based on the molecular understanding are being studied. This presentation will focus on the explanation and treatment of these varied genetic mutations and their cellular outcomes.

Susan J LeClair, PhD, CLS (NCA)
University of Massachusetts

Session # 23

8:30 AM - 11:45 AM  3 Contact Hours  Intermediate

The Black Horse: A Brief History of Pestilence

Humans have been associated with microorganisms since before the existence of our species (Homo sapiens var sapiens). Pestilence is quite another matter. We have NOT always had plagues, nor high efficiency kill-off from microorganisms. This session will explore our best information as to how all this began, describe some of the most notorious examples and make predictions as to the options available in our future and how they might succeed in helping us to cope with pestilence yet to come.

James T Griffith, Ph.D., CLS(NCA)
University of Massachusetts
**Session # 24**

8:30 AM - 11:45 AM  
3 Contact Hours  
Intermediate

**Improving Work Relationships - From the Inside Out!**

Working effectively with others is dependent on how well you understand human beings. "Improving Work Relationships" is a session that introduces the participant to the powerful philosophy of human behavior called "Choice Theory". Understanding what you do that hinders your ability to effectively relate to others while learning what drives everyone’s behaviors including your own, will support you in improving even the most difficult relationships thus enhancing the quality of your work life. This can happen independent of anyone else doing anything different! Being able to make a change from the "inside out" is what makes this session so exciting.

**SALLY GARDINER, CPC/RTC, MT-ASCP**  
Certified Professional Coach, Reality Therapy Certified

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**Session # 25**

8:30 AM - 11:45 AM  
3 Contact Hours  
Intermediate

**Phlebotomy: What Every Phlebotomist Should Know**

Focusing on the skills and information useful and necessary for everyone who collects blood samples for laboratory testing, this session is invaluable to new phlebotomists, medical assistants, and nurses who collect blood samples. This material would be an excellent review for the seasoned phlebotomist. We will discuss proper collection sites vs restricted sites, how to collect quality blood samples, and what preanalytical variations affect test results.

**ALICIA QUIGLEY, PBT(ASCP)**

Adventist Medical Center

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**Session # 26**

1:00 - 4:15 PM  
3 Contact Hours  
Intermediate

**PNH and aHUS Disease Overview**

Focusing first on PNH and aHUS disease and diagnosis overview, we then cover the ICCS Guidelines for the diagnosis of PNH (how to test, how to report and the interpretation of test results). We will review the TMA differential diagnosis and how to differentiate aHUS from TTP from HUS. Included will be the use of flow cytometry to identify PNH.

**TINA RODRIGUEZ, MS**

Alexion Pharmaceuticals

*Sponsored by Alexion Pharmaceuticals*

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**Session # 27**

1:00 - 4:15 PM  
3 Contact Hours  
Intermediate

**The Laboratory’s Role in Pain Management Testing**

We will discuss how drug screen and drug confirmations are performed, the analgesics used in pain management, drug metabolism essential to the interpretation of lab reports, adulterants, the concept of pain management as a specific medical practice and the role of the lab in supporting these clinicians.

**KEVIN FOLEY, PHD, MT, SC, DABCC**

Kaiser Permanente, NW

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**Session # 28**

1:00 - 4:15 PM  
3 Contact Hours  
Intermediate

**Transplantation in the Era of Molecular Technology**

We will focus on evolution of tests involved in clinical transplantation, covering discussions on various lab tests that are performed prior to transplantation and to monitor the graft post-transplant. The history and evolution of these tests from serology to molecular will be discussed as well as a series of clinical approaches taken towards improvement of transplant outcome for the past 50 years. The technical slides will present HLA, ABO, STR, and SNP.

**ZAHRA MEHDIZHAD KHASHI, PHD, HCLD**

Kashi Clinical Laboratories, Inc.

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**Room Rates:**

- $92.00 Single/Double Occupancy
- $102.00 Triple/Quad Occupancy

plus fees, taxes and assessments , currently 12.5%. (special rate held until September 21, 2012)

Check-in time is 3:00 PM and check-out time is 12:00 noon. Please call the hotel at 503-256-5000 and state that you are with the Northwest Medical Laboratory Symposium to obtain the conference rate.
2012 Northwest Medical Lab Symposium
October 17 - 20, 2012
Holiday Inn, Portland Airport

PLEASE PRINT AND SHOW NAME AS WANTED ON NAME TAG

First Name __________________________ Last Name __________________________
Address ____________________________________________
City/State/Zip ____________________________________________
Day Phone __________________________ Evening Phone __________________________
Institution ____________________________________________
City/State ____________________________________________
E-Mail Address ____________________________________________

Would you be willing to serve as Moderator for any of the sessions you will be attending?

Please circle response.
Yes    No

Please circle sessions you wish to attend.

Full-Day Preregistration INCLUDE Lunches
Check if you have special dietary needs:
Vegetarian _____
Gluten Free _____

ADVANCED REGISTRATION FEE SCHEDULE

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Mail to:  Edna Anderson
1397 Redwood St NW
Salem, OR 97304-1940

Full Payment must accompany all registrations. Remit in U.S. dollars. Make check payable to NWMLS.

E-mail: EMA46@comcast.net

Please see the online program for registration terms and conditions. No refunds!
2012 Northwest Medical Laboratory Symposium

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Portland Airport
Portland, OR

The full program description and objectives can be found in the on-line book at www.asclswa.org

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