

# **2013 OREGON SPRING SEMINAR**

**Best Western Agate  
Beach Inn  
Newport, OR  
May 17 - 18, 2013**



*Back to the Beach*

## **BACK TO THE BEACH!**

We heard you! So we are going back to the beach AND back to a spring meeting! So don't let this opportunity slip past you. The Oregon Spring Seminar is the one opportunity in the spring to get some of your necessary continuing education credits. So register now and take advantage of some cutting edge technological information as well as some just plain fun sessions. There is something for everybody. Please note the special lunch session on Saturday. This session is geared towards the students and new professionals and should be very informative. Also, we have put in a special request for good weather so bring your family and make a full weekend of it. Sunday will be all yours for playing and enjoying the Oregon coast! See you there!

Heidi Smith  
ASCLS-OR

Marilyn Albertsen  
OSSAMT

---

### **Saturday Open Forum Lunch Discussion Career Development and Recertification**

This luncheon open forum will target everyone interested in career development and/or recertification. A brief description of various career paths in medical laboratory science will be presented followed by an interactive discussion with senior members of the clinical laboratory professions. Current BOC MLS/MLT processes will be explained followed by an interactive presentation introducing ASCLS CE Organizer as a tool to create, store, and submit CE credits to the certification agency.

**If you are registered for a full day on Saturday and want to attend this session, please mark the check box on the form.**

**If you are only signed up for half day session on Saturday, you can purchase a lunch ticket and attend. Please purchase a lunch ticket and check the box on the form to assure a spot for you.**

There is no session charge for this Luncheon Open Forum Discussion.

---

CONTINUING EDUCATION CREDIT: P.A.C.E.® and AMTrax credit have been approved for all appropriate sessions. ASCLS-OR is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS, P.A.C.E.® program. OSSAMT is the approved provider for AMTrax and ensures these presentations conform to standards established by AMT.

Seminar Summaries

**FRIDAY, MAY 17, 2013**

Registration Hours: 7:00-8:30 am 11:30 am -1:00 pm

AM	1	2	3	
8:30 AM - NOON	<b>MORPHOLOGY THAT MATTERS</b>	<b>PAIN MANAGEMENT</b> <b>PRENATAL TESTING TECHNOLOGIES</b>	<b>INDIVIDUAL QC PLAN</b> <b>CLIA PERSONNEL REQUIREMENTS</b>	
PM	4	5	6	7
1:00 - 4:30 PM	<b>CELL POPULATION DATA</b> <b>ENDOCRINOLOGY OF AGING</b>	<b>PRENATAL CLINICAL CHEMISTRY</b>	<b>THIRD WORLD MEDICINE LAB PERSPECTIVE</b>	<b>LAMELLAR BODY COUNT CLINICAL</b> <b>CLINICAL CORRELATIONS HEM DATA</b>

**SATURDAY, MAY 18, 2013**

Registration Hours: 7:00-8:30 am 11:30 am -1:30 pm

AM	8	9	10	11
8:30 AM - NOON	<b>21ST CENTURY VIEW OF CLL</b>	<b>ANALYTICAL QUALITY CONTROL</b>	<b>BED BUGS, TICKS &amp; NOT SO FURRY FRIENDS</b>	<b>NOT JUST SOPs</b> <b>FLOW CHARTING 101</b>

***OPEN FORUM LUNCH SESSION: 12:00 - 1:30 PM***  
***DISCUSSION: CM AND CAREER DEVELOPMENT***

PM	12	13	14	15
1:30 - 5:00 pm	<b>POLYCYTHEMIA &amp; MYELOPROFERATIVE NEOPLASIMS</b>	<b>A BRIEF HISTORY OF PESTILENCE</b>	<b>MOLECULAR MICRO DX</b> <b>CARBAPENEM RESISTENT ENTEROBACTERIACEAE</b>	<b>WHAT EVERY PHLEBOTOMIST SHOULD KNOW</b>

# Welcome to the 2013 Oregon Spring Seminar

Here is some important information that you need to know!

## To Register:

Complete the registration form and mail the registration form and check payable to  
"Oregon Spring Seminar" to:

Edna Anderson  
Oregon Spring Seminar  
1397 Redwood St  
Salem, OR 97304

If questions:

Contact: [ema46@comcast.net](mailto:ema46@comcast.net)

Phone: 503-364-5645 (calls returned evenings)

**Registration mail postmark by date: May 1, 2013.** All registrations postmarked by May 1 will be included in a drawing for a \$75 cash prize.

- **Lunch** is provided for those that register for two sessions on the same day. Lunch is not provided for those that register for one session a day or for those that register onsite.
- **Handouts** for all sessions will only be available online. Registrants will be sent the web address, username and password to access the handouts. Please print your email address clearly.
- **All sessions** are approved for P.A.C.E. and AMTrax credits.
- **Hotel reservations:** See page 5 for information. Please call the hotel for reservations. Mention "Oregon Spring Seminar" to get the seminar rates. Rates will be available until May 1, 2013 after which it will revert to standard hotel rates.
- **No "Oregon Spring Seminar" Registration refunds** will be issued for non-attendance.
- **Saturday Lunch Open Forum:** If you are registered for a full day on Saturday and want to attend this session, please mark the check box on the form. If you are only signed up for a half day session on Saturday, you can purchase a lunch ticket and attend. Please check the box on the form and purchase a lunch ticket to assure a spot for you. There is no session charge for this Luncheon Open Forum Discussion.

Saturday Lunch will be in a different room for those who are eligible and do not wish to attend the Open Forum.

**Attendance Categories .. see page 20 for a description of attendance categories.**

## Special Notes

**NAME BADGES:** Seminar name badges are required for all sessions and social functions. Casual attire is appropriate for all sessions.

**SESSION CARD/MEETING ROOM ASSIGNMENTS:** You will not receive verification of registration prior to the meeting. Your seminar packet will be available at the Spring Seminar registration desk and will include a list of all the sessions you have registered for as well as the day, time, and room assignment for each session. A floor plan of the hotel complex will also be available at the registration desk.

**HANDOUTS:** Handouts will be available online. Each registrant will receive an email with the username and password to access the handouts for the sessions. **NO** paper handouts will be available onsite. Please print out your handouts before coming to the seminar.



## Seminar Volunteers

### GENERAL CO-CHAIRS

Heidi Smith, ASCLS-OR  
Marilyn Albertsen, OSSAMT

### SCIENTIFIC SESSIONS

Sharon Laddusaw, ASCLS-OR, Chair  
Rena Brown, ASCLS-OR  
Peregrina Robertson, ASCLS-OR  
Maja Chloupkova, ASCLS-OR  
William Dettwyler, OSSAMT  
Helen Wand, ASCLS-OR  
Beth Zentzis, ASCLS-OR

### SPONSORS

Susan Beard, OSSAMT

### HOSPITALITY

Susan Potter, OSSAMT

### REGISTRATION

Edna Anderson, OSSAMT, Chair  
Audrienne Whitley, OSSAMT  
Dee Uerlings, ASCLS-OR

### PROGRAM DESIGN & PRINTING

Beth Zentzis, ASCLS-OR  
Brenda Kochis, ASCLS-WA

### FINANCE

Rena Brown, ASCLS-OR

### P.A.C.E.® /AMTRAX

Louise Isbell, OSSAMT  
Joan Pankonin, ASCLS-OR

### AUDIO VISUAL

Helen Wand, ASCLS-OR

### WEBMASTER

Beth Zentzis, ASCLS-OR

### 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-OR website, <http://www.ascls-or.org>. Remember to print copies of the handouts for the sessions you registered for and bring them to the meeting with you. Handouts for the sessions will be available on the ASCLS-OR website 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. Register early so that you can print the handout material for your sessions.

## Officers and Business Meetings

### ASCLS-OR OFFICERS

President – Heidi Smith  
Secretary – Helen Wand  
Treasurer – Krista Moore  
First Year Prof - Maja Chloupkova  
Student Rep - Beth Zentzis  
Vice Student Rep - Crystal Davenport

ASCLS-OR General Meeting  
Friday, May 17, 5:00 PM

### OSSAMT OFFICERS

President – Marilyn Albertsen  
Secretary – Audrienne Whitley  
Treasurer - Edna Anderson

### OSSAMT BOARD MEETING

Friday, May 17, 6:00 AM

### OSSAMT BUSINESS MEETING

Friday, May 17, 5:00 PM

## Sessions, Meals and Coffee Breaks

**BREAKFAST:** The Agate Beach Inn offers a full service oceanview restaurant opening at 7:00 am.

### COFFEE BREAKS:

Morning Break:	10:00 - 10:30 am
Afternoon Break Friday:	2:30 - 3:00 pm
Afternoon Break Saturday:	3:00 - 3:30 pm

**LUNCHEONS:** Lunch is included for all FULL DAY registrants (see reg.page if you require a vegetarian or gluten free meal).

Friday lunch:	12:00 - 1:00 pm
Saturday lunch Open Forum:	12:00 - 1:30 pm

### SESSION TIMES:

Friday:	8:30 am - 12:00 pm 1:00 pm - 4:30 pm
Saturday:	8:30 am - 12:00 pm 1:30 pm - 5:00 pm

Best Western Agate Beach Inn

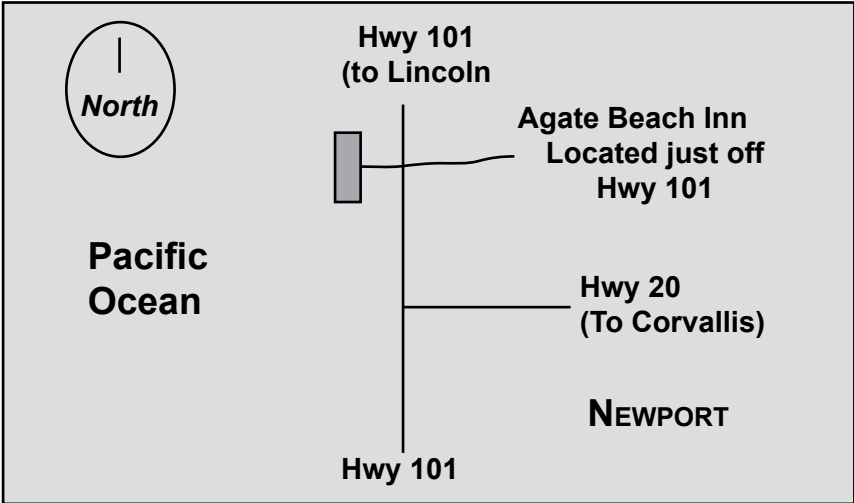


3019 North Coast Hwy • Newport, OR 97365  
1-800-547-3310 • Fax: 1-541-265-5342  
Visit the Inn website at: [www.agatebeachinn.com](http://www.agatebeachinn.com)

<b>Room Rates (all rooms subject to a 10.5% tax)</b>	
Ocean View:	Single/Double Occupancy - \$119.00
Hillside Rooms:	Single/Double Occupancy - \$89.00

Amenities include: fitness room, lounge, cafe, indoor pool/hot tub, game room; additionally, all rooms have a cable TV, VCR, data port telephones, microwave, refrigerator and complimentary in room coffee.

*Seminar room rates can be guaranteed only until May 1, 2013 .  
When calling for reservations, mention the Oregon Spring Seminar to ensure receiving the special room rate.*



## ***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. Please go to [www.ascls.org](http://www.ascls.org) and click on "Join ASCLS" in the box to the left. At that location is the New Member Application. If you join through the ASCLS website **March 1, 2013 or later**, you will get a membership through July 31, 2014. By joining through the ASCLS website, you will have your member number mailed to you immediately. No waiting for snail mail going both ways.

A membership application is available at the following URL:

<http://www.ascls.org>

---

## **American Medical Technologists Request for Certification and Membership**

Yes, I want to become a member of the American Medical technologists. Please mail me further information about AMT, along with a Membership Application Form.

Name \_\_\_\_\_

Telephone: Home \_\_\_\_\_ Work \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zipcode \_\_\_\_\_

Employer \_\_\_\_\_

Students: name of Institution where enrolled: \_\_\_\_\_

Major or name of training program: \_\_\_\_\_

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

**Friday, May 17, 2013**

**Session  
1**

8:30 am - noon  
Intermediate  
3 contact hours

**Morphology That Matters**

This presentation, much like the title indicates, presents numerous peripheral blood images of white blood cells, red blood cells and platelets. Artifactual changes seen in samples vs real clinically significant changes in morphology are addressed. We want our morphology reports to be looked at by clinical staff, interpreted correctly and used for better patient care.

**Objectives**

- Better differentiate artifactual cell changes from actually morphological abnormalities,
- Correlate which morphological changes seen in the lab are actually clinically significant calls for healthcare practitioners and their patients, and
- Simplify and uncomplicate how we make our morphology calls in the lab.

**LYNN MAEDEL, MS, MLS(ASCP)SH**

Executive Director, CACMLE  
Denver, CO





**Session  
2**

8:30 am - noon  
Intermediate  
3 contact hours

**Pain Management Drug Testing**

Pain is a major health and social issue and the number one reason people access medical care. Opioid analgesic prescriptions used for treating chronic pain have increased dramatically along with unintentional deaths. Urine drug testing (UDT) is now commonly used to monitor opioid adherence and detect opioid abuse. This seminar will review the many facets of pain management testing: patient adherence; source of variation in UDT; screening and confirmation tests; specificity of immunoassays; usefulness of quantitative results; evaluating negative and positive results; interpretation of UDT results; opioid metabolism and the lack of relationship between UDT and dose taken.

**Objectives**

- Compare the strengths and weaknesses of pain management screening and confirmation tests
- List reasons why a pain management UDT may be negative or positive
- Describe why urine drug testing has limited usefulness for detecting dose adherence

**STEPHEN ERFURTH, PhD, DABCC**

Director for Science & Technology  
PeaceHealth Laboratories  
Eugene, OR

**Update on Non-Invasive Prenatal Testing Technologies**

The emerging use of cell free DNA testing technologies to screen for fetal abnormalities through maternal blood is changing the practice of prenatal diagnosis. Due to this rapidly evolving field there is a need to update providers of health care on recent advances in the technology and implications for their organization.

**Objectives**

- Describe recent advances in cell free DNA technologies and their limitations,
- Discuss the similarities and differences between the current vendors of this technology, and
- Describe the future capabilities of the technology.

**HEATHER C. DORSEY, MS, CGC**

Genetic Counselor  
Legacy Medical Group - Maternal-Fetal Medicine

**Session  
3**

8:30 am - noon  
Intermediate  
3 contact hours

**Individualized Quality Control Plan (IQCP)**

Examples of IQCP will be presented in addition to strategies for how labs can realistically adopt and benefit from IQCP. The benefits of IQCP include:

1. Customize QC Plan for each test in its unique environment;
2. Optimize use of electronic/integrated controls;
3. Offer laboratories flexibility in achieving QC compliance;
4. Adaptable for future advancements in technology;
5. Incorporate other sources of Quality Information;
6. Strengthen Manufacturer/Laboratory partnerships;
7. Formalize risk management data already maintained within the laboratory;
8. Provide equivalent quality testing to meet the CLIA QC regulations.

**Objectives**

- Discuss the background and history of CLIA QC, and
- Define the “Right QC” based on a risk assessment of each test in its unique testing environment.

**DIANE C. AVENOSO, MPH, MT(ASCP)SBB, CQA(ASQ)**

Clinical Laboratory Inspector/Compliance Specialist  
Oregon Public Health Division  
Portland, OR

**CLIA Personnel Requirements and Competency Assessment**

Participant will have an understanding of personnel requirements for moderate and high complexity testing, including the responsibilities of each position and which responsibilities can be delegated. Competency assessment will include a review of the new CLIA brochure, “What Do I Need to Do to Assess Personnel Competency”.

**Objectives**

- Identify each of the technical personnel’s position held on Laboratory Personnel report (CLIA) CMS 209 Form,
- Explain the acceptable academic documents that meet CLIA regulatory requirements, and
- Discuss the new CLIA brochure, “What Do I Need to Do to Access Personnel Competency”.

**STEPHANIE RINGSAGE BS MT(ASCP)**

Compliance Specialist 3  
Public Health Division  
Portland, OR

**Session  
4**

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

**Cell Population Data**

This presentation starts with discussing current methods of diagnosing sepsis and then offers another method to do this. We will then look at several research papers to see how this new method has been documented and how to put it into use in labs today. We will cover the basic clinic introduction to key points in bacterial infection and current laboratory approach for the diagnosis of bacterial infection and its serious limitations.

**Objectives**

- Discuss why it makes sense to use the CPD in the diagnosis of bacterial infection,
- Discuss key points of the literature published so far, and
- Define the added potential of the DxH800 platform.

**KATHY DAVIDSON ALTIG B.S., MT (ASCP)**

Hematology Field Products Specialist  
Beckman Coulter, Inc.

**The Endocrinology of Aging: Can We Turn Back the Clock?**

Throughout history many, including Ponce de Leon, have searched for a “fountain of youth”. As of today that fountain of youth has not been discovered. But with an aging population, medical science has endeavored to “turn back the clock” on the aging process. This presentation explores the human endocrine system and the changes associated with the aging process. In addition, the endocrine changes seen in menopause in women and andropause in men will be explored. Finally, the laboratory evaluation of patients throughout the entire process will be discussed.

**Objectives**

- List 3 contributors to the aging process,
- Briefly describe the changes in these systems with age: adrenal, pituitary, thyroid, reproductive, and
- List the hormones frequently measured in the assessment of the aging endocrine systems.

**DAVID F.SCHAFFNER, PhD, MT(ASCP)**

Medical Affairs Manager  
Beckman Coulter, Inc

**Session  
5**

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

**Prenatal Clinical Chemistry**

During the course of pregnancy, complications arise that can involve the mother's health, the baby's health, or both. Diagnostic and screening tests in pregnancy have great clinical utility when making decisions that have consequences for both the mother and fetus. Physicians have come to rely on these tests to choose the correct course of action for their patients. Because invasive tests like amniocentesis carry their own risk for the fetus, screening tests using biomarkers that are increased or decreased in certain conditions and molecular biology using fetal DNA have proved helpful in reducing the need for these procedures. From the initial determination of pregnancy using tests that detect the presence of HCG in serum or urine to assessing threat of premature delivery, fetal lung maturity when early delivery is advisable or knowing if special medical attention will be required at delivery as in the case of neural tube defect, the laboratory plays a vital role.

Objectives

- Review current chemistry tests performed on prenatal patients,
- Discuss the difference between diagnostic and screening tests, and
- Discuss laboratory medicine practice guidelines in maternal-fetal risk assessment.

**JEANNE MARIE NORDLOF, BS, MS**

Technical Specialist for Special Chemistry  
PeaceHealth Laboratories  
Springfield, OR

**Session  
6**

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

**Third World Medicine From a Lab Perspective**

This session will outline opportunities for the medical technologist in the developing world. Short-term medical mission trips are a great way to serve and to increase your scope of practice. We will discuss mission opportunities for laboratorians, review equipment and gear to bring, and discuss what to expect. Case studies will also be presented. This talk is somewhat less technical in focus, instead concentrating more on the humanitarian aspect of medical missions and the practical role we as technologists can play.

Objectives

- List several agencies and opportunities for the lab medicine volunteer,
- Identify essential equipment and POC devices that are useful in field medicine,
- List the top 10 tests used by lab techs in the field and the requisite skills and resources needed to perform them, and
- Work through several case studies in tropical disease.

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

Regional Director of Clinical Chemistry, Immunology, POC and Toxicology  
Kaiser Permanente, NW  
Portland, OR

**Session  
7**

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

**The Clinical Usefulness of Lamellar Body Count in Evaluating Fetal Lung Maturity**

Respiratory distress syndrome (RDS) of the newborn is most frequently caused by a deficiency of pulmonary surfactant at birth and is the ninth most common cause of newborn mortality in the United States. The American College of Obstetricians and Gynecologists (ACOG) has recommended confirmation of the status of fetal lung maturity (FLM) before scheduled delivery at less than 39 weeks of gestation to avoid RDS of prematurity. Lamellar body counts (LBCs) are a simple, rapid, inexpensive and reliable method for evaluation of FLM. In this presentation, respiratory distress in the newborn will be reviewed. The clinical usefulness of LBC will be compared with other common tests to evaluate FLM. In addition, a brief description of our experience in validating LBC in the laboratory will be discussed.

**Objectives**

- Discuss the clinical utility of Lamellar Body Count to measure fetal lung maturity as compared to other methods, and
- Review important points in validating this test in the lab.

**DANELLE BEAUDOIN, PhD**

Scientific Director, Clinical Chemistry  
Legacy Laboratory Services, LLC

**Making Clinical Correlations with Hematology Data and Morphology**

Using a case study approach, this session presents hematology (CBC) data along with microscopic cell morphology. The participants are asked to “look at the bigger picture” in order to help rule out certain pathology and make relevant clinical correlations using the presented information. Superficially cases will initially appear as “look alikes”! This session challenges your critical thinking skills.

**Objectives**

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

**LYNN MAEDEL, MS, MLS(ASCP)SH**

Executive Director, CACMLE  
Denver, CO





## Saturday, May 18, 2013

### Session 8

8:30 am - noon  
Intermediate  
3 contact hours

### 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.

#### Objectives

- Explain the common presentations of CLL,
- Explain the molecular underpinnings of CLL and their relationship to potential medications, and
- Interpret the significant laboratory data seen in diagnosis and treatment of the various CLL presentations.

#### **SUSAN J. LECLAIR, PHD, CLS (NCA)**

Chancellor Professor Dept. of Medical Laboratory Science  
University of Massachusetts  
Dartmouth, MA

### Session 9

8:30 am - noon  
Intermediate  
3 contact hours

### Analytical Quality Control: What Is Behind the Daily QC Routine?

Quality management is a multi-dimensional process in clinical laboratory services that assures the proper results are delivered to the customer (physician, patient). One part of quality management is the analytical quality control (AQC). AQC monitors work processes, detects problems, and makes corrections prior releasing the final results. To understand AQC, this session will focus on basic principles of statistical quality control practiced by all testing laboratory personnel.

#### Objectives

- Discuss why, when, and how often QC is performed in clinical laboratory,
- Discuss what materials can be used as control materials in various sections of clinical laboratory,
- Describe the Levey – Jennings plots, Westgard rules, and most common practices to troubleshoot QC outliers, and
- Discuss how QC practices are applied to different areas of laboratory and the principles of QC documentation.

#### **MAJA CHLOUPKOVA, PHD, MS, MLS (ASCP)<sup>CM</sup>**

Medical Technologist – Technical Specialist  
Legacy Health System  
Portland, OR

**Session  
10**

8:30 am - noon  
Intermediate  
3 contact hours

**Bed Bugs, 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, mosquitoes 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 and other insects, as well as how to identify them and curtail their presence.

**Objectives**

- Compare presenting signs and symptoms of bug and insect encounters,
- Discuss the natural history (biology/taxonomy) of these bugs and insects,
- Describe the likely historical connection between ticks, bugs, etc and humans, and
- Explain the most effective eradication techniques.

**JAMES T. GRIFFITH, PHD, CLS (NCA)**

Chancellor Professor and Chairperson; Dept. of Medical Laboratory Science  
University of Massachusetts  
Dartmouth, MA



**Handouts**

Handouts are only available online at [www.ascls-or.org](http://www.ascls-or.org).

Several weeks before the Seminar, Registrants will receive an email with session confirmations and instructions for accessing the handouts. Be sure to print them and bring them with you to the meeting. No handouts will be available onsite.

**Session  
11**

8:30 am - noon  
Intermediate  
3 contact hours

**It's Not Just SOPs Anymore!**

This workshop presents a fresh approach to different types of documents and their uses in the medical laboratory, and follows information provided in the "Flow-charting 101" program. Suggestions are shared for using document templates more appropriate to the manner in which laboratory work is really performed. The use of well-written documents as aids for developing effective training and competence assessments is demonstrated. Key features of CLSI's revised guideline GP02 on laboratory documents development and management will be discussed.

**Objectives**

- List four types of documents and describe their uses in the medical laboratory,
- Determine how to identify which procedures are needed in any given process,
- Apply established templates to write laboratory documents, and
- Discuss how laboratory documents can be used more effectively for training and competence assessment.

**Flow Charting 101: Solution to Many Laboratory Problems**

All work is a series of processes, with laboratories of all sizes, scopes, and specialties having preanalytic, analytic and postanalytic processes. Flow charts provide an easy means to visualize your laboratory's work processes and greatly simplify procedure writing, staff training, and competence assessment. This program demonstrates how to document your laboratory's work processes as simple one-page flow charts rather than the multi-page verbal descriptions laboratories commonly call "SOPs." Participants will learn about different flow chart display methods and will be provided with examples of common basic laboratory flow charts.

**Objectives**

- List and describe 6 basic flow chart symbols,
- Explain how to create a basic process flow chart, and
- Identify the procedures the process activities represent.

**LUCIA M. BERTE, MA, MT(ASCP)SBB, DLM: CQA(ASQ)CMQOE**  
Laboratories Made Better! P.C.  
Broomfield, CO



**Saturday, May 18, 2013**

## **Saturday Lunch Open Forum**

This open forum will target everyone interested in career development and/or recertification. In the first half, a brief description of various career paths (technical, management) in medical laboratory science will be presented. An interactive discussion with senior members of the clinical laboratory related professions will follow. In the second half, current BOC MLS/MLT processes will be explained. An interactive presentation will introduce the ASCLS CE Organizer - a new tool that provides an easy way to create, store, and submit CE credits to the certification agency.

**Objectives:**

- Discuss different paths to advance in the field of medical lab
- Describe MLT/MT and AMT recertification processes
- Utilize the ASCLS CE Organizer

Maja Chloupkova, PhD, MS, MLS (ASCP)<sup>CM</sup>  
Medical Technologist – Technical Specialist  
Legacy Health System  
Portland, OR

***If you are registered for a full day on Saturday and want to attend this session, please mark the check box on the form.***

***If you are only signed up for half day session on Saturday, you can purchase a lunch ticket and attend. Please purchase a lunch ticket and check the box on the form to assure a spot for you.***

***There is no session charge for this Luncheon Open Forum Discussion.***



**Session  
12**

1:30 - 5:00 pm  
Intermediate  
3 contact hours

**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 and associated with PV, Essential Thrombocythemia, Primary Myelofibrosis and Eosinophilic malignancies. Standard laboratory tests for these diseases 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.

**Objectives**

- Explain the role of JAK2, exon 12 and other appropriate genetic mutations in the creation of polycythemia vera, essential thrombocythemia, primary myelofibrosis and myelodysplasias, and
- Describe the role of SOCS1 and STAT genes in the development of myeloproliferative neoplasms
- Correlate the signs and laboratory data with the genetic anomalies.

**SUSAN J. LECLAIR, PhD, CLS (NCA)**

Chancellor Professor Dept. of Medical Laboratory Science  
University of Massachusetts  
Dartmouth, MA

**Session  
13**

1:30 - 5:00 pm  
Intermediate  
3 contact hours

**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.

**Objectives**

- Describe the historic connection between humans, microorganisms and pestilence,
- Discuss factors that favor or disfavor the establishment (or continuation) of pestilence in a human population,
- List the top 10 'plagues' of all (human) time, and
- Estimate the future of human-consequence plagues.

**JAMES T. GRIFFITH, PhD, CLS (NCA)**

Chancellor Professor and Chairperson; Dept. of Medical Laboratory Science  
University of Massachusetts  
Dartmouth, MA



**Session  
14**

1:30 - 5:00 pm  
Intermediate  
3 contact hours

**Molecular Microbiology Diagnostics: The Promised Micro Lab Utopia We're Still Waiting For**

The emergence of molecular diagnostic methods has long been seen as a driving force behind a chronically imminent revolution in Diagnostic Microbiology since the 90's. While a number of breakthroughs have occurred over the last two decades, some significant and even intrinsic barriers have slowed the replacement of traditional Micro methods. New, lower complexity, multiplex assays that have achieved FDA approval as In vitro Diagnostics (IVD) stand to dramatically improve the standard of care for patients suffering from Sepsis, Gastroenteritis, Influenza like Illness and other acute conditions. The advent of these new IVDs as well as MALDI-TOF and Next Generation DNA sequencing methods stand the best chance at finally offering saltationary change of practice in the Microbiology lab.

**Objectives**

- Summarize the basic mechanisms of molecular methods,
- Describe the barriers and disadvantages to implementing molecular methods for certain Micro diagnostics,
- Define the disease states being diagnosed by new multiplex methods and what clinical action(s) they indicate, and
- Discuss the relationship between MALDI-TOF and Organism ID by DNA sequencing.

**JOSEPH HILL, MB(ASCP)**

Supervisor and Technical Specialist; Molecular Diagnostics Dept.  
Kaiser Permanente, Northwest Regional Laboratory  
Portland, OR

**Carbapenem Resistant Enterobacteriaceae**

Carbapenem Resistant Enterobacteriaceae (CRE) are an emerging group of multi-drug resistant gram negative bacilli worldwide. CRE infections are incredibly difficult to treat using our current antibiotic armamentarium and carry with them high morbidity and mortality. Moreover, the definition of CRE is currently still in flux. The Clinical and Laboratory Standards Institute (CLSI) revised carbapenem susceptibility breakpoints for Enterobacteriaceae twice in the past 3 years in response to the availability of new clinical, in vitro, and pharmacokinetic/pharmacodynamics data. Adoption of the new breakpoints has been slow for a variety of reasons, and this has generated confusion around identification of CRE in the microbiology laboratory. In clinical practice, the epidemiologic importance of CRE that is only ertapenem-resistant may be different than that of a pan-carbapenem resistant organism. Additionally, molecular identification of carbapenemases is becoming available in certain referral laboratories. In this talk, we will review CRE epidemiology, clinical impact, and the various definitions and methods used to identify an organism as "CRE". We will also discuss the role of microbiology laboratories in the newly established Oregon Drug Resistant Organism Prevention and Coordinated Regional Epidemiology (DROP-CRE) Network.

**Objectives**

- Discuss the epidemiology and clinical impact of Carbapenem Resistant Enterobacteriaceae (CRE),
- Discuss the various (confusing) definitions of CRE; specifically learn the definition used for mandatory reporting by the Oregon Health Authority, and
- List the advantages and limitations of CRE testing methodologies.

**CHRISTOPHER D. PFEIFFER, MD, MHS**

Hospital Epidemiologist, Portland VAMC  
Assistant Professor of Medicine, Division of Infectious Diseases, OHSU  
Portland, OR

**Session  
15**

1:30 - 5:00 pm  
Intermediate  
3 contact hours

**What Every Phlebotomist Should Know**

Phlebotomy and specimen processing updates and information, with an emphasis on sample integrity, pediatric sample draws, and geriatric collections. What makes a great phlebotomist as opposed to an average one will be discussed.

**Objectives**

- Describe the 2013 National Patient Safety Goals and what they mean to you,
- Discuss what makes a Great Phlebotomist,
- Outline Pre-analytical Factors: sample integrity and patient results, and
- Describe techniques for pediatric to geriatric patients.

**ALICIA QUIGLEY**

Support Services Supervisor  
Adventist Medical Center Laboratory  
Portland, OR



**Handouts**

Handouts are only available online at [www.ascls-or.org](http://www.ascls-or.org). Several weeks before the Seminar, Registrants will receive an email 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.

## Registration General Information

### To Register:

Complete the registration form and mail the registration form and check payable to "Oregon Spring Seminar" to:

Edna Anderson  
Oregon Spring Seminar  
1397 Redwood St  
Salem, OR 97304

If questions:

Contact: [ema46@comcast.net](mailto:ema46@comcast.net)  
Phone: 503-364-5645 (calls returned evenings)

**Registration mail postmark by date: May 1, 2013.** All registrations postmarked by May 1 will be included in a drawing for a \$75 cash prize.

- **Lunch** is provide for those that register for two sessions on the same day. Lunch is not provided for those that register for one session a day or for those that register onsite.
- **Handouts** for all sessions will only be available online. Registrants will be sent the web address, username and password to access the handouts. Please print your email address clearly.
- **All sessions** are approved for P.A.C.E. and AMTrax credits.
- **Hotel reservations:** See page 5 for information. Please call the hotel for reservations. Mention "Oregon Spring Seminar" to get the seminar rates. Rates will be available until May 1, 2013 after which it will revert to standand hotel rates.
- **No "Spring Seminar" Registration refunds** will be issued for non-attendance.
- Saturday Lunch Open Forum: see the explanation on page 16.

### Attendance Categories

Membership Affiliation: To receive member rates you must submit a photocopy of your membership card along with the registration form. (Please bring your membership card with you to the meeting)

**MEMBER:** A current member in good standing of the American Society for Clinical Laboratory Science (ASCLS), or the American Medical Technologists (AMT).

**COLLABORATIVE MEMBER (ASCLS):** A current collaborative member in good standing of the American Society for Clinical Laboratory Science (ASCLS). To receive special rates you must submit a photocopy of your membership card along with the registration form.

**STUDENT:** Any person who is engaged, at least half-time, in a recognized program leading to either an Associate or Bachelor degree in Clinical Laboratory Science (Medical Technology) or one who is in a recognized Clinical Laboratory Internship program.

**PHLEBOTOMIST:** Any person whose primary responsibility is phlebotomy and who does not perform technical sample analysis.

**RMA/AAMA/COLT:** A special reduced rate is available to current members in good standing of the American Medical Technologists/Registered Medical Assistants.

**EMERITUS/HONORARY:** Any person who is an honorary or emeritus member of the ASCLS or AMT is eligible for special rates.

**NON-MEMBER:** Any person who is not a member of ASCLS or AMT.

# Registration Form

**2013 Oregon Spring Seminar**  
 May 17 - 18, 2013  
 Best Western Agate Beach Inn, Newport, OR

**Mail this form with a check payable to  
 Oregon Spring Seminar**

To facilitate processing please  
 postmark this registration form by  
**May 1, 2013**

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 \_\_\_\_\_

**Please circle sessions you wish to attend.**

Would you be willing to serve as Moderator for any of the sessions you will be attending?  
 Please circle response.  
 Yes                      No

Friday, May 17	AM	1	2	3	
	PM	4	5	6	7
Saturday, May 18	AM	8	9	10	11
	PM	12	13	14	15

All full-day preregistrations include lunch  
 Check here if you prefer:  
 Vegetarian meal     Gluten Free meal

**Check here if you wish to attend the Saturday Open Forum Lunch**   

**ADVANCED REGISTRATION FEE SCHEDULE**

Pre-registrations with two sessions on the same day INCLUDE Lunch)

**Member ASCLS or AMT** (Membership #: ASCLS \_\_\_\_\_ AMT \_\_\_\_\_)

Technical/Administrative Professional . . . . .	_____ Full Day	@ \$75.00	\$ _____
	_____ Half Day	@ \$40.00	\$ _____
<b>Phlebotomist/RMA/COLT</b> . . . . .	_____ Full Day	@ \$30.00	\$ _____
	_____ Half Day	@ \$20.00	\$ _____
<b>Student/Emeritus/Honorary</b> . . . . .	_____ Full Day	@ \$20.00	\$ _____

**NonMember**

Technical/Administrative Professional . . . . .	_____ Full Day	@ \$150.00	\$ _____
	_____ Half Day	@ \$90.00	\$ _____
Phlebotomist /Medical Assistant . . . . .	_____ Full Day	@ \$60.00	\$ _____
	_____ Half Day	@ \$35.00	\$ _____
<b>Student</b> . . . . .	_____ Full Day	@ \$30.00	\$ _____

**Saturday Open Forum Lunch** (if not registered for all day Saturday)  
 See explanation on page 16                      \_\_\_\_\_ Lunch                      @ \$20.00                      \$ \_\_\_\_\_

**Total**                      \$ \_\_\_\_\_

**Enter Amount on Blank Lines**

Mail to: Edna Anderson  
 Oregon Spring Seminar  
 1397 Redwood St  
 Salem, OR 97304

**Full Payment must accompany all registrations. Remit in U.S. dollars.**

**Make check payable to Oregon Spring Seminar.**