

# *Patient Safety—The Final Frontier*



Patient Safety is a frontier, maybe not the final, that we as laboratory professionals need to address. Several educational sessions are offered to this end. The conference committee invites you to participate in the educational program as well as the social events planned for this year's conference. The vendors look forward to meeting with you and updating you on the latest industry is offering. All of the programs are approved for PACE continuing education credit. Meet new friends and network with old friends and colleagues at this CLSA Annual Conference.

## Clinical Laboratory Scientists of Alaska Annual Conference March 28, 29, 30, 2012 Sheraton Hotel, Anchorage, Alaska

### **Wednesday evening - Exhibitors' Reception 5:30 — 7:30 PM**

The exhibitors will have their booths set up and look forward to showing you the latest technologies in a fun and relaxed atmosphere. Without their generous support, this program would not be possible. The program committee encourages you to visit each booth.

### **Who's Coming to the 2012 CLSA Exhibit Hall?**

Becton-Dickinson  
University of Washington  
Beckman Coulter  
AUDIT Microcontrols  
Sysmex  
Alaska Scientific  
Hardy Diagnostics  
VWR  
Siemens  
HemoCue  
Alere  
Mayo Laboratories



Photo permission of Anchorage Convention and Visitors Bureau (ACVB)

More vendors continue to register. Go to [www.clsaonline.org](http://www.clsaonline.org) to see the entire listing.



### **Patient Safety—The Final Frontier Costume Contest**

Come as your favorite Star Trek character. Prizes for the best costume, winners determined by people's choice.

**When:** Wednesday, March 28 from 5:30-7:30PM

**Where:** Exhibitors' Reception

Voting closes at 6:45PM and winners announced at 7PM.

## Educational Program

Wednesday, March 28, 2012

**Session 1** Wednesday 8:30-10:00 AM

### **Albuminuria—A Predictor of Renal and Cardiovascular Disease**

Chronic kidney disease (CKD) especially in the diabetic population is a growing public health threat in the U.S. with an estimated 20 –40 million Americans with disease or at risk. As CKD is clinically silent in the early stages, it is difficult to identify patients for effective therapy. This seminar reviews the value of testing for low levels of albumin in the urine for the early identification of CKD, as well as risk stratification in patients at risk for cardiovascular disease (CVD).

- Describe the pathology of protein release in the urine and its relation to declining kidney function.
- Describe the value of identifying albumin in the urine for the early detection of CKD and interventional therapies to delay disease progression in diabetes.
- Discuss the value of testing for albuminuria and its utility for risk assessment in CVD patients.

**Jim Aguanno, PhD.**  
**Senior Clinical Specialist**  
Sponsor: Siemens

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**Session 2** Wednesday 8:30 —10:00 AM

### **New Technologies that will Change the Way We Practice Medicine**

The goal of my lecture will be to make the audience aware of the history leading to the sequencing of the human genome in 2000. I'll discuss the technological advances in less than 10 years that have reduced the cost of sequencing a single genome from 200 million dollars to now a number approaching \$1,000. Finally, I'll talk about how this is going to change everything.

- Review DNA sequencing technologies and how rapidly they are advancing.
- Explain how the newest Next Generation sequencing will begin to transform all laboratory testing.
- Discuss this technological development as a singularity that will soon transform all of the medicine and clinical practice.

**David I. Smith, Ph.D., Professor of Laboratory Medicine and Pathology**  
Sponsor: Mayo Medical Laboratories

**Session 3** Wednesday 10:15-11:45 AM

### **KEYNOTE ADDRESS**

### **Medical Laboratory Professionals—At the Heart of Safe Patient Care**

Medical laboratory professionals have an opportunity and responsibility to expand their traditional definition of quality to improve the pre and post analytic phases of laboratory services. This session will discuss how laboratory professionals can fulfill their roles and responsibilities to improving patient safety.

- Describe the six aims of the Institute of Medicine to improve the quality of medical laboratory services.
- Discuss one method to improve the pre and post-analytic phases of laboratory services from the perspective of the six Institute of Medicine aims.
- Identify one tool to monitor patient safety for medical laboratory services.

**Catherine Otto, PhD, MBA, MLS(ASCP)<sup>cm</sup>**  
**President America Society for Clinical Laboratory Science**  
Sponsor: CLSA

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**Session 4** Wednesday 2:00-3:30 PM

### **Improving Test Utilization: The Role of the Clinical Laboratory**

The number of laboratory tests has expanded exponentially since 1920 resulting in increased abuse and misuse of these tests. During this session Dr. Lyons will lead the discussion on methods to address this issue in Alaska. Use of diagnostic management teams, algorithms and the doctorate in clinical laboratory science will be explored.

- Explain why laboratory tests are often abused or misused.
- Discuss how the abuse or misuse of laboratory tests can affect patient care.
- Discuss how the use of diagnostic management teams, algorithms and/or use of DCLS can improve test utilization.

**Keegan M. Lyons Lt. Col., USAF, MC, SFS**  
**Medical Director, 673rd Laboratory, JBER**  
Sponsor: Joint Base Elmendorf Richardson

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**Exhibitors Reception**  
**Wednesday 5:30—7:30 PM**

Meet with the exhibitors and learn about all the new products and services available for your lab.  
+ Silent Auction & Trekkie costume contest

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**Updates to this program and Handouts for sessions will only be available online at:**  
**<http://www.clsaonline.org>**

## Educational Program

Wednesday, Thursday March 28 & 29, 2012

**Session 5** Wednesday 2:00-3:30 PM

### **Cellavision Digital Pathology**

This presentation looks at how Artificial Neural Networks can automate the manual differential and body fluid bench at the laboratory.

- *How neural Networks can identify cells.*
- *How digital pathology may help Alaska Hospitals/ Clinics in Clinical Science.*
- *How Cellavision Technology can impact efficiency, proficiency and connectivity of pathology.*

**Scott Dunbar, Area Sales Manager, Cellavision West**

Sponsor: Cellavision

**Session 6** Wednesday 3:45-5:15 PM

### **Alaska Health Information Exchange**

Alaska eHealth Network (AeHN) mission is to improve the safety, cost effectiveness, and quality of healthcare in Alaska through widespread secure, confidential electronic clinical information systems including promotion of electronic health records and facilitation of health information exchange. This presentation will illustrate how healthcare organizations across Alaska will be connecting to a state-wide health information exchange to securely send healthcare data and make it available for use in a third party SaaS solution for participating civilian and government healthcare organizations.

- *Describe the AeHN and the Alaska Health Information Exchange (HIE).*
- *Discuss why the HIE is a good model for future healthcare solutions.*
- *Describe how the Air Force, VA and all other healthcare organizations in Alaska and the Pacific Northwest area will benefit from this project.*

**Bill Sorrels, Executive Director, Alaska eHealth Network**

Sponsor: Alaska Native Medical Center



**FOOD BANK OF ALASKA**  
BECAUSE NO ONE DESERVES TO BE HUNGRY

### **Silent Auction Wednesday 5:30-7:30 PM**

This year the silent auction benefits The Food Bank of Alaska and will be held during the Exhibitor's Reception. Please come and shop while you benefit a charitable cause.

A Food Drive to benefit the Food Bank of Alaska will be held throughout the conference to help feed Alaska's Hungry.

**Session 7** Wednesday 3:45-5:15 PM

### **Hematology Tools to Aid in the Diagnosis and Management of Iron Deficiency Anemia**

This session will review the definition of anemia, discuss the prevalence of anemia in America and the healthcare resources prevention and treatment of the disease consumes each year. The advantages and disadvantages of the traditional lab tests for the diagnosis anemia will be reviewed. The advantages of utilizing some of the new hematology parameters for diagnosis and monitoring anemia will be explored. Case study examples will be used.

- *Review the definition of anemia and discuss the prevalence of anemia in America.*
- *Explain the advantages and disadvantages of the traditional lab tests for the diagnosis and treatment of anemia.*
- *Explain the advantages of implementing and utilizing the new Hematology parameters for diagnosis and treatment of anemia.*

**Barbara J Connell, MS, MT(ASCP)SH, Senior Manager, Scientific Marketing**

Sponsor: Sysmex America, Inc

**Sessions 8 & 10** Thursday 8:30-10:00, 10:15-11:45 AM  
**Tools to Improve Patient Safety in Medical Laboratory Services**

Quality is an integral component for providing medical laboratory services. Medical laboratory professionals have an opportunity and responsibility to expand their traditional definition of quality to improve the pre and post-analytic phases of laboratory services. Methods to monitor and improve laboratory services for laboratory professionals make contributions to healthcare delivery that is safe, effective, timely, efficient, equitable and patient-centered. Audience participation will be encouraged.

- *Summarize the six aims of the Institute of Medicine to improve the quality of medical laboratory services.*
- *Discuss one methodology for measuring improvement to the pre and post-analytic phases of laboratory services from the perspective of the six Institute of Medicine.*
- *Identify one metric for the pre and post-analytic phases of medical laboratory services to monitor patient safety.*

**Catherine Otto, PhD, MBA, MLS(ASCP)<sup>cm</sup>**

**President American Society for Clinical Laboratory Science**

Sponsor: CLSA

## Educational Program

Thursday, March 29, 2012

**Session 9** Thursday 8:30-10:00 AM

### **Quality Care without Boundaries for Laboratories in Alaska**

This is an interactive session to identify quality care issues that have no geographical boundaries and discuss solutions to the issues. Topics are to be brought forth by attendees and may include hiring quality staff, maintaining staff competency, creating user friendly documents for lab and non-lab personnel, and more.

- *Identify quality care issues that have no geographical boundaries.*
- *Discuss ways to resolve quality care issues identified by the group.*
- *Recognize available resources to help solve quality care issues.*

\*\*\* Email topics you would like to discuss to Dave Pierce at: [dpierc14@uaa.alaska.edu](mailto:dpierc14@uaa.alaska.edu)

**James Tiesinga, MD, Medical Director ANTHC**  
**David Pierce, MBA, MLS(ASCP)<sup>cm</sup>**  
Assistant Professor, University of Alaska Anchorage  
Sponsor: University of Alaska Anchorage and ANTHC

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### **Session 11** Thursday 10:15-11:45 AM **POCT—Competency Evaluation and CLIA**

This session will discuss the rationale for competency requirements, CLIA competency regulations and procedure, and guidance for compliance. The instructor will go over the 6 evaluation criteria listed in Subpart M and who has authority to do competency assessment for POCT testing personnel, laboratory director's responsibilities, and delegation of authority.

- *Describe the CLIA requirements for competency assessment.*
- *Differentiate between training and competency assessment as specified in Subpart M of the CLIA requirements.*
- *Discuss the six evaluation criteria for competency assessment.*

**Francisca L. Lehr, MS, MT(ASCP), CLIA Sruveyor and Laboratory Consultant, Region X**  
Sponsor: Center for Medicare and Medicaid Services

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### **Polishing Your Resume** Thursday lunch gathering

Come join an experienced manager who will talk about creating the resume that will get you the interview. Tips for the interview itself will be discussed. If you plan to attend this lunchtime activity please respond to Gloria Tomich at: [gatomich@uaa.alaska.edu](mailto:gatomich@uaa.alaska.edu).

### **Session 12** Thursday 2:00-3:30 PM **To Be Announced**

Summary and Objectives will be posted on the CLSA website

**TBA**  
Sponsor:



Photo by permission of ACVB

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### **Session 13** Thursday 2:00-3:30 PM **Preparing for a CLIA Survey—Top 10 Ways to Get Ready**

The course concentrates on preparing participants for CLIA on-site surveys. There are 10 ways laboratory personnel can prepare for a survey. Everything from filling out paperwork to finishing the survey will be covered. Preparing policies/procedures, personnel records, proficiency testing, quality control, and instrument maintenance are included. Survey tools for a self-evaluation process and sample worksheets for quality control recording are provided.

- *Explain how to prepare for a CLIA Survey from beginning to end.*
- *List the 10 easy steps to get ready for an on-site visit.*
- *Evaluate worksheets, CLIA brochures, CDC booklets, and self-evaluation tools in preparation for the next survey.*

**Doris Thompson, Ph.D, MT(ASCP),**  
Sponsor: Alaska State Agency CLIA Program

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**Updates to this program will be located on the CLSA website: <http://www.clsaonline.org>**

**Handouts for sessions will only be available online at: <http://www.clsaonline.org>**

## Educational Program

Thursday, March 29, 2012



**Sheraton Anchorage Hotel & Spa**  
401 E. 6th Ave., Anchorage, AK 99501

Call 1-800-478-8700 OR 907-276-8700 for reservations  
or go to [www.clsaonline.org](http://www.clsaonline.org) for the reservation link.

Rates are \$99.00 + 12% tax for attendees

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### Session 14 Thursday 3:45-5:15 PM *Inflammation and Sepsis*

Sepsis is a potentially deadly medical condition that is characterized by a whole body inflammatory state—systemic inflammatory response syndrome, SIRS—and the presence of a known or suspected infection. Sepsis is a major cause of morbidity and mortality worldwide and is the 2nd leading cause of death in non-coronary ICU patients in the U.S.

- *Explain basic pathophysiology and epidemiology of sepsis.*
- *Identify the progressive stages of sepsis.*
- *Discuss laboratory testing guidelines for the diagnosis and management of patients with sepsis.*

**David Schaffner, MT(ASCP), PhD, Scientific Affairs Manager**  
Sponsor: *Beckman Coulter, Inc.*



### Session 15 Thursday 3:45-5:15 PM *Pre-Analytical Error in Blood Gases: Causes, Prevention and Case Studies*

Approximately 75% of errors in blood gases resulted from pre-analytic factors. Modern blood gas analyzers are also capable of analysis of electrolytes, metabolites, CO-Oximetry. This presentation reveals factors that contribute to pre-analytic error. Case studies are used to illustrate the effect of pre-analytic error. Suggestions for minimizing pre-analytic sources of error will also be offered.

- *Discuss the importance of preventing blood gas error.*
- *Describe the factors that contribute to pre-analytic error in whole blood analysis.*
- *Devise practices that reduce pre-analytic error.*

**John J. Ancy, MA, RRT, Senior Clinical Consultant**  
Sponsor: *Instrumentation*



Photo by permission of  
ACVB

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### Thursday Evening Social Event 6:00 PM

The social event will begin with dinner at Lucy's on the University of Alaska Anchorage campus. After dinner we will attend a show at the UAA Planetarium.

The Planetarium show is 3 part and will include *Nano-cam: a trip into biodiversity*, a journey through the human skull, and a journey into the solar system.

There will be bus service for 30 attendees. It will go first to Lucy's, then to the Planetarium, and return to the Sheraton. The bus will leave the Sheraton at 5:30 PM, dinner will begin at 6:00 PM, and the Planetarium show will begin at 7:30 PM. There is a \$2.00 charge for the bus. Tickets can be obtained through your online registration or at the registration desk.

If you wish to drive, parking at UAA is \$2/hr until 7:30PM (no fee after 7:30 PM). Pay N' Park machines are at various locations, a UAA map will be provided at the registration desk.

Tickets for this social event must be purchased in advance. Tickets can be purchased through our online conference registration at: <http://www.regonline.com/clsaspringconference2012>

## Educational Program

Friday , March 30, 2012

### Session 16 Friday 8:30-10:00 AM **Thrombosis and Thrombophilia**

This session will provide information on historic as well as current identification and treatment of thrombotic disorders.

- Describe Thrombotic Disease States
- Define the biological basis for hypercoagulability and thrombosis.
- Discuss acquired and inherited thrombophilia.
- Identify laboratory tests for the diagnosis and treatment of thrombophilia
- Review the 2009 ISTH guidelines for the identification of Lupus Anticoagulant.

**Brianna Hendrix MLS (ASCP), Clinical Hemostasis Specialist**

Sponsor: Beckman Coulter

### Session 18 Friday 10:15-11:45 AM **Flow Cytometry in Hematopathology—A Practical Experience**

This will be a basic introduction to the clinical use of flow cytometry in the evaluation and diagnosis of lymphoma and leukemia. Case studies will be used to demonstrate the incorporation of flow cytometry in routine diagnostic hematopathology.

- Explain the basic science behind flow cytometric immunophenotyping.
- Discuss the pre-analytic variables that affect success in analysis.
- Evaluate the applications and limitations of flow cytometry in diagnostic hematopathology.

**Thomas Mego, MD, Medical Director Laboratory and Pathology Services.**

Sponsor: ADL & Providence Alaska Medical Center

### Session 17 Friday 8:30-10:00 AM **Invasive Bacterial Disease Surveillance in Alaska**

This session will be an overview of laboratory-based invasive bacterial surveillance conducted by CDC in Alaska.

- Describe the CDC's invasive bacterial disease surveillance system in Alaska.
- List two public health success stories that occurred as a result of infectious disease surveillance in Alaska.
- Describe why laboratory participation is important for public health surveillance.

**Tammy Zula, MPH, Public Health Analyst, Arctic Investigations Program**

Sponsor: Centers for Disease Control and Prevention



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Photo by permission of ACVB

### Session 19 Friday 10:15-11:45 AM **DNA Analysis in Forensic Investigations: An Update**

Review of DNA methodologies used in forensic investigations. Describes current Alaska State Crime Laboratories testing practices, focusing on the power, potential and limitations of DNA analysis. Presentation of case studies with a discussion of ethical dilemmas that arise.

- Discuss the current molecular methods used in forensic testing.
- Recognize the power and potential as well as the limitations of forensic DNA analysis.
- Describe the current ethical and technical challenges that may arise in DNA analysis.

**Abirami Chidambaram PhD., Technical Manager DNA Section, Scientific Crime Detection Laboratory**

Sponsor: State of Alaska DPS

## Educational Program

Friday, March 30, 2012

### CLSA General Meeting Friday 12:00-2:00 PM

Nomination of officers, summary of past years activities, award presentations, the CLSA Facebook page, and more.

**Constance Stager, CLSA President**



### Session 22 Friday 3:45-5:15 PM

The topic for this session will be related to pediatric health-care in Alaska.

Summary and Objectives will be posted on the CLSA website

### Laura Schulz, MD

*Sponsor: Pediatrics Sub-Specialty Clinic/Pediatric Oncology Infusion*

### Session 23 Friday 3:45-5:15 PM

Legislation Affecting Clinical Laboratories

Legislation at the state and national level continue to affect operations of clinical laboratories. This session will cover current changes in legislation that affect the clinical laboratory. Topics will include state licensure, current legislation at the national level and more.

- *Discuss the status of licensure for laboratory professionals in Alaska.*
- *Discuss current legislation at the national level affecting clinical laboratories.*
- *Recognize the importance of licensing all members of the healthcare team.*
- *Discuss laboratory support for providers & hospitals meeting the EHR meaningful use criteria*

**Constance Stager, MLS, Manager, Maniilaq HC**

**Heidi Mannion, Ph.D., Professor, UAA**

**Paul Cartland, MSSM, PMP**

*Sponsor: Maniilaq Health Center and UAA, State of AK*



To become a member of CLSA/ASCLS go to the website at:  
[www.ascls.org](http://www.ascls.org)

### Session 20 Friday 2:00-3:30 PM

**Disorders of Calcium Metabolism**

This session will discuss disorders of calcium metabolism and the role of clinical laboratory analysis. Topics will also include the effect of hormone replacement and therapeutic treatment for osteoporosis on bone health.

- *Identify disorders of calcium metabolism.*
- *Discuss errors involved in calcium testing.*
- *Discuss current evidence based practices on the use of hormone replacement and therapeutic treatment for osteoporosis.*

**Konrad C. Kaltenborn, MD**

*Anchorage Medical & Surgical Clinic*

### Session 21 Friday 2:00-3:30 PM

**PPE and Bloodborne Pathogens**

This presentation will stress the importance of managing risks in the laboratory setting, to include new regulations with eyewash stations and universal precautions. When staff are educated about the elements of managing risk, they are more likely to follow processes for identifying, reporting, and taking action to minimize the risks.

- *Review the facts and myths surrounding PPE and Eyewash Stations.*
- *Discuss the Supervisor's role in managing risk with the proper selection of PPE.*
- *Explain the importance of proper PPE*

**Dean P. Davis, M/M, HRM, Safety Program Coordinator**

*Sponsor: Providence Alaska Medical Center*

### Scholarships from CLSA

One of the benefits of belonging to CLSA is the availability of scholarships. These monies can be used to attend meetings, local and national; college level classes, and continuing education. The two scholarships awarded by CLSA are the Sharon O'Meara CE Scholarship Fund and Dan Fieblekorn CE money for Delegates. There are also scholarships available from various vendors and from ASCLS.

We have the monies for these scholarships and we would love to award them. Applications can be found on line on the CLSA website at <http://clsaonline.org/Scholarships.htm> or can be obtained by calling or emailing Teresa Johnson or any of the regional directors.

Updates to this program will be located on the CLSA website: <http://www.clsaonline.org>

Handouts for sessions will only be available online at:  
<http://www.clsaonline.org>

Wednesday, March 28, 2012		
Time		
0800-0900	Registration	
0830-1000 1.5 CE	Topic: Albuminuria—A Predictor of Renal & CVD Speaker: James Aguanno (Siemens) # 1	Topic: New Technologies Speaker: Dr. David Smith (Mayo) # 2
1000-1015	Break	
1015-1145 1.5 CE	Keynote Address: Medical Laboratory Professionals— At the Heart of Safe Patient Care Speaker: Dr. Catherine Otto, ASCLS Pres. # 3	
1200-1400	Lunch with Exhibitors	
1400-1530 1.5 CE	Topic: Improving Test Utilization Speaker: Dr. Keegan Lyons (JBER) # 4	Topic: CellaVision—digital pathology Speaker: Scott Dunbar # 5
1530-1545	Break	
1545-1715	Topic: Alaska Health Information Exchange Speaker: Bill Sorrels # 6	Topic: Iron Deficiency Anemia Speaker: Barbara Connell (Sysmex) # 7
1730-1930	Exhibitors Reception—Silent Auction	
Thursday, March 29, 2012		
0800-0900	Registration	
0830-1000 1.5 CE	Topic: Tools to Improve Patient Safety Part 1 Speaker: Dr. Catherine Otto # 8	Topic: Quality without Boundaries for Alaska Labs Speaker: Dr. James Tiesinga and David Pierce # 9
1000-1015	Break	
1015-1145 1.5 CE	Topic: Tools to Improve Patient Safety Part 2 Speaker: Dr. Catherine Otto # 10	Topic: POCT—Competency Evaluation and CLIA Speaker: Fran Lehr (CMS) # 11
1200-1400	Lunch with Exhibitors	
1400-1530 1.5 CE	Topic: Changing the Way the World looks at TB Speaker: Cellestis # 12	Topic: Preparing for a CLIA Survey Speaker: Dr. Doris Thompson # 13
1530-1545	Break	
1545-1715 1.5 CE	Topic: Inflammation and Sepsis Speaker: Dr. David Schaffner # 14	Topic: Pre-analytical Error in Blood Gases Speaker: John Ancy # 15
1800-2100	UAA: Dinner at Lucy's, Planetarium Show	
Friday, March 30, 2012		
0800-0900	Registration	
0830-1000 1.5 CE	Topic: Thrombosis & Thrombophilia Speaker: Brianna Hendrix (Beckman) # 16	Topic: Bacterial Disease Surveillance in Alaska Speaker: Tammy Zula (AIP) # 17
1000-1015	Break	
1015-1145 1.5 CE	Topic: Flow Cytometry in Hematopathology Speaker: Dr. Thomas Mego # 18	Topic: DNA Analysis in Crime Detection Speaker: Dr. Abirami Chidambaram # 19
1200-1400	Lunch and General Meeting	
1400-1530 1.5 CE	Topic: Disorders of Calcium Metabolism Speaker: Dr. Konrad Kaltenborn # 20	Topic: PPE and Bloodborne Pathogens Speaker: Dean Davis # 21
1530-1545	Break	
1545-1715 1.5 CE	Topic: TBA (Pediatric Healthcare) Speaker: Dr. Laura Schulz # 22	Topic: Legislation Affecting Laboratories Speakers: Cartland, Mannion and Stager # 23

# *Patient Safety—The Final Frontier*

March 28-30, 2012 at the Sheraton Hotel, Anchorage, Alaska



**To qualify for early registration rates go on-line to:**  
<http://www.regonline.com/clsaspringconference2012>

It is quick, easy and saves on paper and postage! Or mail this form:

Name: \_\_\_\_\_ ASCLS # \_\_\_\_\_  
 Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Facility: \_\_\_\_\_ E-mail (Required) \_\_\_\_\_

I am willing to be a moderator: Yes No I will help at the registration desk Yes No  
 Check here if you **DO NOT** want your name and e-mail to be given to vendors: \_\_\_\_\_

Circle the sessions you will be attending:

**Wednesday** 1, 2, 3, 4, 5, 6, 7 **Thursday** [8&10], 9, 11, 12, 13, 14, 15 **Friday** 16, 17, 18, 19, 20, 21, 22, 23

**CLSA is an approved provider of Continuing Education Programs in the Clinical Laboratory Sciences through the ASCLS P.A.C.E program. CLSA also provides credit for California Licensure for all sessions.**

Sessions 8 and 10 are separate but sequential sessions and attendees must register for both for a total of 3.0 CE. All other sessions are worth 1.5 hour of CE.

**Advance purchase only for the social event and lunches. Sorry on site purchase will NOT be available. There is an additional fee of \$5 per session for registration after 3/14/2012 so register early.**

Member of ASCLS	<b>Before 3/14/2012</b>	<b>After 3/14/2012</b>	
By the 1.5 hour session	_____ Sessions @ \$30	<b>@ \$35</b>	\$ _____
Student by the 1.5 hour session	_____ Sessions @10	<b>@ \$10</b>	\$ _____
<b>Non-Member</b>			
By the 1.5 hour session	_____ Sessions @ \$40	<b>@ \$45</b>	\$ _____
Student by the 1.5 hour session	_____ Sessions @ \$15	<b>@ \$15</b>	\$ _____
Lunch (included in full day registration)	_____ Lunches @ \$30		\$ _____
Social Event -dinner & Planetarium show	_____ Social @ \$50		\$ _____
Dinner only	_____ Dinner @ \$30		\$ _____
ASCLS Member 3 Day Pass	Includes 4 sessions/day and lunch all 3 days _____ \$300	<b>\$325</b>	\$ _____
		<b>Total</b>	\$ _____

*For mail-in registration, make check or money order, payable to CLSA. If your fees are being paid by a third party, **PLEASE** make sure they put your name on the check. If mailing registration, send to: Tony Gregston, 2309 Roosevelt Drive, Anchorage, Alaska 99517.*

**CLINICAL LABORATORY  
SCIENTISTS OF ALASKA**

CLSA Conference Chair  
Gloria Tomich  
1817 Parkside Drive  
Anchorage, AK 99501



# 2012 CLSA Conference Program