



April 22 – April 23, 2010
A Clinical Laboratory Continuing Education event
organized by
ASCLS-Colorado
ASCLS-Wyoming
CACMLE
CLMA-Centennial Chapter

CACMLE (Colorado Association for Continuing Medical Laboratory Education, Inc.)
6825 E. Tennessee Ave. Ste 111
Denver, Colorado 80224-1629
Phone: 303-321-1734 • Fax: 303-321-9231
email: info@CACMLE.org • Website: www.CACMLE.org

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Schedule at a Glance

Thursday, April 22

7:30-8:30 Registration
8:00-9:00 Continental Breakfast
8:15-8:45 Opening Ceremony
& ASCLS-CO Awards
8:45-9:45 Keynote
9:45-10:00 Break
10:00-11:00 Breakout Sessions
11:00-1:30 Lunch with Vendors
1:30-2:30 Breakout Sessions
2:30-3:00 Break
3:00-4:00 Breakout Sessions
4:00-6:00 ASCLS-CO and
ASCLS-WY meetings
6:00-8:00 CACMLE Event

Friday, April 23

7:30-8:30 Registration
8:00-9:00 Continental Breakfast
8:15-8:45 Opening Ceremony
& ASCLS-WY Awards
8:45-9:45 General Session
9:45-10:00 Break
10:00-11:00 Breakout Sessions
11:00-1:30 Lunch with Vendors
12:30-1:15 Student Forum
1:30-2:30 Breakout Sessions
2:30-3:00 Break
3:00-4:00 Breakout Sessions

*** Please bring this program to the conference**

**** Program schedule is tentative and subject to change**

***** Visit the Student Poster Session on Thursday & Friday. Prizes awarded for 1st, 2nd, 3rd place, and honorable mentions.**

Come Visit Us Online

Prior to attending the session, attendees will need to print handouts by visiting us online at:

www.clcconline.org

A username and password is required for printing conference materials and will be provided with your registration confirmation. (Handouts will NOT be provided at the session.)

Directions and a map are available online.

Registration is available at www.clcconline.org and www.coclma.org and credit cards will be accepted.

CACMLE Annual Meeting, Thursday, April 22, 6:00-8:00 with special guest *The Healthy Humorist Brad Nieder, MD* Refreshments served. Room to be announced.

ASCLS-CO meeting, Thursday, April 22, 4:00-6:00, room to be announced

ASCLS-WY meeting, followed by IMSS planning committee meeting, Thursday, April 22, 4:00 - 6:00, room to be announced.

We would like to thank the following Sponsors

ARUP

Bonfils Blood Center

Blood Systems, Inc.

CACMLE

Casper College

Colorado State University

Greiner Bio One

Immucor

Kaiser Permanente

Meridian Bioscience

Parkview Medical Center

Poudre Valley Health System

Primary Children's Medical Center, Salt Lake

The Children's Hospital, Denver

University of Colorado, Denver

Friday, April 23, 2010 • 12:30 - 1:15pm

Student Forum: Come meet other students and ASCLS members!

Breakout Sessions

Friday, April 23, 2010 • 1:30 - 2:30pm

Session #15: The DNA of Transfusion Diagnostics

— *Sandy Drake, MT(ASCP), Immucor*

This session will give an overview of how DNA analysis impacts the blood bank.

Session #16: Preanalytical Variables

— *Kathleen Finnegan, MS, MT(ASCP)SH, Stony Brook University*

Preanalytical variables play a key role in the quality of specimens that are obtained for laboratory testing. The quality of blood specimens has an important role for prognosis, diagnosis, treatment and the monitoring of patient's care. Laboratory staff must recognize the importance of good phlebotomy technique and the affect of pre-analytical variables on the quality specimen.

Session #17: Clinical Mycology – A Case Study Approach

— *Elmer Koneman, MD and Christie Grueser, MSS, MT(ASCP), CACMLE*

Through the use of clinical case studies, this session will apply the criteria for defining the pre-analytic, analytic, and post-analytic stages of organism/disease identification of more commonly encountered fungal isolates in the clinical mycology laboratory. The current status of molecular assays in the more rapid and accurate identification of fungal species will also be presented.

Friday, April 23, 2010 • 3:00 - 4:00pm

Session #18: Pharmacogenetics

— *Gwen McMillin, PhD, DABCC (CC,TC), ARUP*

Pharmacogenetics is used to identify people who are genetically predisposed to handle drugs differently than expected. In this session, the concepts upon which pharmacogenetic testing is based, will be reviewed. Specific examples of pharmacogenetic tests that are available clinically today will be discussed relative to strengths and limitations, and clinical implementation.

Session #19: Immunohematology Potpourri

— *Camilla Melland, MT(ASCP)SBB, Bonfils Blood Center, Denver*

A summation of testing that is not necessarily involved in compatibility testing, but is performed in the reference lab. The tests included are lectin panels, Donath-Landsteiner test, cold hemagglutinin disease testing and cell separation techniques.

Session #20: Top 10 Management Lessons from the Front Lines

— *Rob Carpenter, MS, MT(ASCP), The Children's Hospital, Aurora, CO*

This interactive session will use a recent survey of regional laboratory leaders as a basis for sharing the most important management lessons learned from survey participants and from the presenter's own experience. The session format will be informal, and the primary goal will be to provide participants with an actionable list of management behaviors and approaches that will improve their chances for success within their own organizations.

General Sessions

Thursday, April 22, 2010 • 8:45 - 9:45am

Keynote Address

Session #1: Most of What I needed to know I Learned from the Lab: A Very Special Case Study

— *Barbara Biller, PhD, Colorado State University*

Differentiating primary from secondary liver diseases can be particularly challenging in asymptomatic patients. In this session we will discuss how careful, serial assessment of multiple laboratory parameters unraveled the mystery of chronic liver test elevation in a 10-year-old female patient.

Friday, April 23, 2010 • 8:45 - 9:45am

Session #11: The Art of Coaching

—*Shawn Evans, MS, Poudre Valley Health System*

Coaching others for performance and success is an increasingly critical element in today's organizations. Coaching is an art that requires thought, preparation, and action. This session will outline key elements of successful coaching and key behaviors of successful coaches.

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Please visit with your vendors in the exhibits area each day.  
We are grateful for their continued support and want them to have the greatest opportunity to speak with their customers during this event.

**Hotel Information**

***Red Lion Hotel, Denver Central***

4040 Quebec Street at I-70 (Stapleton)  
Denver, CO 80216

For Room Reservations call:  
303-321-6666 or 800-RedLion

State you are part of the CLCC Group Rate  
Room Rate: \$89/night

**Call by 3/28/2010 to guarantee the discounted rate**  
Directions to hotel available at [www.clcconline.org](http://www.clcconline.org)

## **Breakout Sessions**

**Thursday, April 22, 2010 • 10:00 - 11:00am**

**Session #2: Molecular Diagnostics: Microarrays and Multiplexing as it relates to Virology**

— *Adriana Weinberg, MD, University of Colorado, Denver*

In this session we will review recent advances and future perspectives for molecular diagnosis of viral infections.

**Session # 3: Those Bodacious Body Fluids, Part I**

— *Jill Hartman, BS, MT(ASCP)SM and Lynn Maedel, MS, MLS(ASCP)SH, Colorado Association for Continuing Medical Laboratory Education (CACMLE)*

They don't have to be that scary! This presentation covers the microscopic morphology seen in Wright-stained slide preps of sperm, and cytospin preps of: CSF, pleural, peritoneal and synovial fluids. You will feel better about calling these cells by the end of this session, we promise!

**Session #4: Therapeutic Drug Monitoring**

— *Gwen McMillin, PhD, DABCC (CC,TC), ARUP*

This session will review fundamentals of pharmacology, upon which the practice of therapeutic drug monitoring is based. Variables that contribute to the success of therapeutic monitoring will be emphasized, and examples of commonly monitored drugs presented. Brief discussion of drugs for which therapeutic drug monitoring practices are currently evolving will also be discussed.

**Thursday, April 22, 2010 • 1:30 - 2:30pm**

**Session #5: Pediatric Diabetes**

— *Andrea Steck, MD, Barbara Davis Center, Children's Hospital, Aurora*

This session will be a presentation of diabetes in children discussing the laboratory evaluation of type 1 and type 2 diabetes and treatment of type 1 diabetes.

**Session #6: Those Bodacious Body Fluids, Part II**

— *Jill Hartman, BS, MT(ASCP)SM and Lynn Maedel, MS, MLS(ASCP)SH (CACMLE)*

This session is a continuation of Session #3.

**Session #7: Update on the Laboratory Diagnosis of *Clostridium difficile* (CDAD) and *Shiga toxin-producing E. coli* (STEC) Infection**

— *Judy Daly, PhD, Primary Children's Medical Center, Salt Lake City*

This session will review the laboratory diagnosis of CDAD and STEC. The most useful algorithms will be discussed and potential future advances in diagnosis.

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Breakout Sessions

Thursday, April 22, 2010 • 3:00 - 4:00pm

Session #8: Pathology/ Orthopedic trauma/ Heme Case Studies

— *Jason Hicks, MD, Kaiser Permanente, Denver*

This session is a case based presentation covering basic orthopedic pathology followed by an autopsy presentation-“Mystery Cases Solved.”

Session #9: TNT: Teaching Clinical Laboratory Science with Electronic Technology

— *Bernardino Madsen, MT(ASCP), Casper College*

This session will highlight the online, distance education technology that the Casper College utilizes in the delivery of its hybrid online MLT program.

Session #10: Positive Blood Cultures: Controlling Contamination and the Impact of Rapid Identification Methods

— *Lana Fairbanks, MLS(ASCP)^{cm} SM, Parkview Medical Center*

Numerous studies have demonstrated that providing timely and more specific results from positive blood culture specimens can significantly impact the quality and cost of patient care. In this session, we will list the various strategies that can be used to reduce contamination in blood culture specimens and discuss how to determine a “true” positive blood culture from a “false” positive one. A review of rapid identification methods, from the traditional gram stain to the newest molecular technology will be provided and correlated with improved patient care and reduced healthcare costs.

Friday, April 23, 2010 • 10:00 - 11:00am

Session #12: Discovery, Documentation and Digging... Deviation Management and Root Cause Analysis

— *Mary Lieb, MT(ASCP)SBB, CQA(ASQ), Blood Systems, Inc.*

Development, implementation and managing a system that will promote continual process improvement for all processes, services and activities can be a challenging prospect. This presentation will provide education and guidance to manage deviations that occur and investigate in a systematic way identification of key elements that contribute to errors and near misses.

Session #13: Challenging Cases in Hematology

— *Kathleen Finnegan, MS, MT(ASCP)SH, Stony Brook University*

A case study format will be used to present challenging and unusual morphologic hematology cases. The case study will correlate clinical data, CBC results, peripheral blood findings and flow Cytometry data with patient diagnosis. Discussion will include the FAB classification and the WHO classification of leukemia, and myelodysplastic syndromes. In addition, review and discussion of disease entities will be included.

Session #14: Clinical Parasitology – A Case Study Approach

— *Elmer Koneman, MD and Christie Grueser, MSS, MT(ASCP), CACMLE*

Through the use of relevant clinical case studies, this session will focus on the criteria for defining the pre-analytic, analytic and post-analytic stages of organism/disease identification in the clinical parasitology laboratory.