CAMLT - A Smart Partnership

Technology

Teamwork

78th Annual Meetings and Exhibits
September 15 - 17, 2017
Santa Clara Hilton

Convention Program and Registration Information inside!

Register Online at www.camlt.org

Book EARLY and SAVE$$$

Great Workshops – Abstracts Start on Page 10

House of Delegates, Exhibits and Recruiters,
LAB-PAC Luncheon, Fun-Nite, Student Forum,
Member Forum, Installation Banquet, and more…

At the Hilton Hotel, Santa Clara, CA

Unable to attend but still need continuing education? We will miss you at convention but rest assured you can still earn CEUs via CAMLT’s distance learning courses online at www.camlt.org/distance-learning

Announcing
CAMLT’s New Expanded Members Benefits Program
See page 18
I am pleased to invite you to attend our Annual Meeting, Seminars and Exhibits—CAMLT: A Smart Partnership: Technology and Teamwork—at the Santa Clara Hilton on September 15-17, 2017. The hotel is located next to the new home of the San Francisco Forty-Niners and is close to many restaurants, shops, and entertainment venues.

Hosted by District 2 chapters: East Bay, San Francisco, and Santa Clara. The Convention Committee, CAMLT office staff and volunteers have put in many hours planning this event for your enjoyment.

The program includes many well-known speakers, such as Tatsiana Mardovina, MD, PhD and Paul Riley, PhD speaking about Vitamin K Coagulopathy Overview: Manifestations, Diagnosis and Therapy giving you practical information that you can apply every day in the clinical laboratory.

The Exhibits feature manufacturers, developers and recruiters. Come and see the latest laboratory technology and job opportunities.

Our networking and social events include the Friday night Fun-Nite, the Saturday LAB-PAC Walk and the LAB-PAC lunch with a special speaker followed by the Installation and Awards banquet on Saturday night.

Come and enjoy a travel themed Fun-Nite and make a donation to the CAMLT LAB-PAC Fund.

Three full days of educational sessions should have plenty of interest for the generalist or specialist. With the lowest rates in the industry, CAMLT’s Annual Meeting, Seminars and Exhibits offer the best return on your investment.

This past year has been one of excitement and change for CAMLT. We now have a new website that delivers information more easily and is more accessible. You can now renew or join online as well as register for seminars online. We have a new Expanded Member Benefit Program that can save you more than the cost of your membership every year!

One of our Board of Director’s goals for this year was to improve communication with members and the laboratory community. We are continuing to identify how we all can meet this and other goals. We are using social media to let others know about our organization, but the personal introduction to CAMLT is what will help us to increase our membership and volunteers. Won’t you all help by liking us on Facebook and talking about what we do every month in the lab (not just during Lab Week)?

Everyone possesses leadership qualities…let CAMLT help you bloom.

Sincerely,
Ilene Dickman, President
REQUEST FOR NOMINATIONS FOR 2017-2018 STATE OFFICES AND COMMITTEES

Nominations are now being accepted for CAMLT State Officers and Committee Chairpersons. Don’t delay – the Nominations Committee needs time to determine eligibility and to contact the prospective candidate. If you are interested in serving in a State office as a member of the Board of Directors, or in a State Committee Chairperson position, or know of someone who is a good candidate, submit your name, address, telephone number, and email address to:

CAMLT Executive Office
39656 Mission Blvd.
Fremont, CA  94539
office@camlt.org

The following positions are open:

- President-Elect (1 year)
- Secretary (1 year)
- Treasurer (2 years)
- District I Consultant (2 years)
- District III Consultant (2 years)
- District V Consultant (2 years)
- Judicial Committee (2 years) – Two positions
- Bylaws Chairperson (2 years)
- Nominations Committee (1 year) – Five positions (Districts I through V)

NOMINEES FOR CLS OF THE YEAR AWARD WANTED!

Now is the time to submit nominations for the prestigious CLS of the Year Award. Contact the CAMLT Office, office@camlt.org, for details on qualifications and deadlines for submission.

ANNOUNCING CAMLT EDUCATION AND RESEARCH FOUNDATION’S WINNERS – 2017

Winners of free continuing education scholarships (6.0 hours CE) are chosen from among attendees at CAMLT seminars and the convention. Congratulations to the following winners!

Spring Seminar South:
#1: Erica Klein
#2: Janet M. Jones

Spring Seminar North:
#1: Sandra Mackewicz-Anderson
#2: Romeo Domondon
CAMLT – A SMART PARTNERSHIP
2017 CONVENTION EVENTS

SEMINARS – Friday, Saturday, Sunday

Choose from 13 seminars (39 units!) on a wide variety of topics. Earn up to 18 hours of CE credit over the three days. Register early for best choice of seminars at the best prices. You may also register on-site for any seminar with available space.

EXHIBITS AND RECRUITERS – Friday, Saturday

Exhibits open Friday afternoon. The exhibit displays provide a chance to meet our vendor partners in a relaxed atmosphere, exchange ideas, share contacts, gain insight into new tests and instruments. Representatives of healthcare employers from across California will also be on hand to talk with you about careers with their facilities. Exhibits continue at midday on Saturday.

STUDENT FORUM – or make it a Student Day – Friday

Laboratory students in training programs all over California have been invited to present poster sessions or power point presentations featuring their trainee research projects. All CLS, MLT, CPT and special License program students, as well as undergraduate students with an interest in laboratory science, are invited to attend the Student Forum. Nichole Coleman from the Clinical Laboratory Science Training Program at San Francisco State University, will chair this event. All convention attendees are welcome to come enjoy the presentations and witness first-hand the future excellence of California laboratories. Prizes will be awarded by the judges.

Students may attend a workshop in the morning before the Forum, then visit the Exhibits, and finish the day relaxing at the Fun-Nite.

FUN-NITE – Friday

Prepare for an evening of music and entertainment as attendees participate in a travel themed Karaoke Challenge! Enjoy a tasty spread and drinks while Fun-Nite sponsor and loyalty benefits partner Tripbeat, endless vacation provides travel destination insights, judge Karaoke Challenge, and award prizes. Meet old friends and new, network to your heart’s content, belt out a song or two, win some prizes, and have tons of FUN!

LAB-PAC WALK/RUN/STROLL – Saturday

Join us early Saturday morning with a brisk walk, run, or stroll on pathways near the hotel. Clear your head for a day of workshops or the House of Delegates. The Walk/Run raises funds for CAMLT’s LAB-PAC.

LAB-PAC LUNCHEON – Saturday

The annual LAB-PAC Luncheon on Saturday provides an opportunity for our members and guests to meet a local legislator and our Legislative Advocates Kathy Rees and Russ Noack. We will be updated on current legislation of particular interest to CAMLT. This event is a fund raiser for LAB-PAC, to provide the means by which CAMLT works to protect and strengthen laboratory regulations in California.

INSTALLATION BANQUET – Saturday

The flourish at the end of the 2017 Convention will be Saturday evening's Installation Banquet. It is a great opportunity to celebrate the successes of the year and our new Board Members as they are officially installed. CLS of the Year will be awarded as you enjoy good food and friends.

Enter your newsletter for the annual Newsletter Award!
Send copies of your newsletter for judging to:

CAMLT Executive Office
39656 Mission Blvd.
Fremont, CA  94539
office@camlt.org
2017 CONVENTION EVENTS SCHEDULE

Thursday, September 14
CAMLT Board of Directors Meeting: 10:00 AM – 5:00 PM

Friday, September 15
Continuing Education Seminars: 8:30 – 11:30 AM & 1:30 – 4:30 PM
CAMLT Education and Research Foundation Meeting: 8:00 – 10:00 AM
CCEA Meeting: 10:00 AM – 12:00 Noon
Student Forum: 1:00 – 4:30 PM
CAMLT Member Forum/Finance/Orientation/Training: 2:30 – 4:30 PM
Exhibits: 4:30 – 6:00 PM
Fun-Nite: 7:00 – 10:00 PM

Saturday, September 16
Continuing Education Seminars: 8:30 – 11:30 AM & 1:30 – 4:30 PM
LAB-PAC Run/Walk/Stroll: 6:30 – 7:30 AM – Meet at 6:20 AM in the Hotel Lobby
CAMLT House of Delegates: 8:00 – 11:00 AM (House convenes at 9:00 AM)
Exhibits: 11:00 AM – 1:30 PM
CAMLT LAB-PAC Luncheon: 12:00 – 1:30 PM
CAMLT House of Delegates: 1:30 – 4:30 PM
Installation Banquet: 7:00 – 10:00 PM

Sunday, September 17
Continuing Education Seminars: 8:30 – 11:30 AM & 1:30 – 4:30 PM
CAMLT Board of Directors Meeting: 8:30 AM – 11:30 PM

2017 CONVENTION COMMITTEE

Danuta T. Bowler
Linda Burton
Nichole Coleman
Joyce Estes (LAB-PAC)
Dora W. Goto
Ulka Parikh
Mary Jeanne Stavish
Jan Vogel
Roy Vogel

2016-2017 BOARD OF DIRECTORS

President.............Ilene E. Dickman
President-Elect...Open
Past-President...Dora W. Goto
Secretary..........Josilyn Schrage
Treasurer.........Mary Jeanne Stavish
District I Consultant Shareen Mezger
District II Consultant Danuta T. Bowler
District III Consultant Mark Briones
District IV Consultant Ching-Yi (Joyce) Ma
District V Consultant Marlene DeMers
“CAMLT – A Smart Partnership”, the 78th Annual Meeting and Exhibits for the California Association for Medical Laboratory Technology, will be held at the Hilton Santa Clara from Friday, September 15 through Sunday, September 17, 2017. This meeting is open to CAMLT members and non-members alike. See Hotel Information page for reservation information.

ADVANCE REGISTRATION: Send in your registration form. Early-bird registration must be postmarked by 8/24/2017. Reserve your hotel room. Non-members send in registration form with membership application and save $$$!

ON-SITE REGISTRATION: If you are unable to register in advance, on-site registration begins at 7:00 a.m. each day of the meeting. On-site registration is subject to availability. Additional on-site registration fee of $5.00 applies.

SEMINAR START TIMES: Continuing education courses start promptly at 8:30 a.m. and 1:30 p.m.

PARKING: Complimentary self-parking available on a first-come-first-serve basis.

AIRPORT TRANSPORTATION: The closest airport is Mineta San Jose International Airport.

PUBLIC TRANSPORTATION: The free Valley Transportation Authority (VTA) Route 10 Airport Flyer bus connects the airport to the Santa Clara Station for Caltrain and ACE commuter rail services as well as numerous local buses; and to the Metro/Airport Light Rail Station for VTA’s light rail service. To plan your trip, visit: http://www.vta.org/schedules/. Or, consider arranging taxi / Uber / Lyft alternatives.

HOTEL DRIVING DIRECTIONS: (Hilton Santa Clara is located at the corner of Tasman and Great America Parkway)
- From San Francisco International Airport SFO (approximately 39 miles): Take Highway 101 South to Great America Parkway. Turn left and pass over highway to Tasman Drive. *Airport Shuttle Not Provided*
- From Norman Y. Mineta San Jose International Airport SJC (approximately 5 miles): Turn left onto Airport Boulevard, and then turn left again onto Guadalupe Parkway. Follow the signs to Highway 101 North. Take Highway 101 North. Exit Highway 101 at Great America Parkway and turn right. *Airport Shuttle Not Provided*
- From Points North: Take I-880 South and exit to Highway 237 West toward Mountain View. Turn left onto Great America Parkway to Tasman Drive.
- From Points South: Take I-880 North to Highway 101 North and exit at Great America Parkway. Turn right onto Great America Parkway.
- From Points East: Take I-5 South toward San Francisco/Los Angeles. Merge onto I-205 West toward I-580/San Francisco; I-205 becomes I-580 West. Take the I-680 North exit toward Sacramento/San Jose; then merge onto I-680 South via the exit on the left toward San Jose. Take the Mission Boulevard West exit toward I-880/Warm Springs District/UC Extension. Merge onto Mission Boulevard/CA-262 West, then merge onto I-880 South toward San Jose. Merge onto CA-237 West/Alviso-Milpitas Road toward Mountain View. Take the Great America Parkway exit toward Lafayette Street, turn left onto Great America Parkway.

CAMLT REFUND POLICY
- Complete refund issued for programs cancelled by CAMLT.
- Complete refund for programs canceled by participant must be requested in writing by 8/17/2017 and are subject to a $25 cancellation fee.
- Full credit (less a $25 cancellation fee) toward a future state seminar or convention will apply to requests for cancellation after 8/18/17 and prior to 9/7/2017.
- Refunds/credits not applicable to cancellation requests after 9/7/2017.

DISCLAIMER: CAMLT hereby disclaims any liability for product or services exhibited, nor does it necessarily support the content of any educational session. Acceptance of advertising does not indicate or imply product endorsement by CAMLT.

ACCREDITATION: CAMLT is approved by the California Department of Public Health as an accrediting agency for continuing education (provider #21) and by the State of Nevada Bureau of License and Certification.

ATTENDANCE POLICY: Choice of workshops may NOT be changed on-site. In compliance with California State Continuing Education (CE) regulations, participants MUST attend the entire workshop to receive CE credits. NO partial credit will be awarded for late arrival/early departures. NO EXCEPTIONS.

POLICY FOR PERSONAL INFORMATION DATA: The 2017 Convention Committee will make available to exhibitors a contact list of attendees (mailing address only). If you prefer that your name not be included on the list, please so indicate on the Registration Form.
You will be staying at the...

Hilton Santa Clara
4949 Great America Parkway
Santa Clara, CA 95054
1.408.330.0001
http://www.hiltonsantaclara.com

A welcoming experience awaits you at Hilton Santa Clara. Allow the professional and helpful staff to assist you in making your stay as perfect as possible. Pampering amenities are designed to delight your every sense.

Note concerning housing: CAMLT has made every effort to secure the best possible group nightly rate for you at this event. The rate results from a negotiated overall package of event needs such as sleeping rooms, meeting room space, and other requirements. Contracts with the venue include a provision to reduce event costs if CAMLT meets or exceeds its minimum sleeping room block guarantee. Conversely, event costs will increase if CAMLT falls short of its minimum room block guarantee. Please help CAMLT keep the costs of this event as low as possible by booking your housing needs only at the Hilton Santa Clara through the reservation process below. Reserving elsewhere means you are booking outside the contracted room block, jeopardizing CAMLT’s ability to meet its contracted obligations and to keep registration fees to a minimum. CAMLT appreciates your support and understanding of this important issue.

Reservation Procedures: CAMLT has negotiated a block of guest rooms at a rate of $129.00/Single, Double, King Suite with Wet Bar. Room rates are quoted exclusive of applicable state and local taxes (which are currently 9.0% Sales Tax; 11.72% Hotel Occupancy Tax plus $1.00 District Improvement Fee) or applicable services, or hotel specific fees in effect at the Hotel at the time of the meeting. Don’t wait until the last minute. Reservations may be made on-line via the Internet using the Personalized Group Web Page: http://www.hilton.com/en/hi/groups/personalized/S/SJCSCHF-CALTEC-20170914/index.jhtml?WT.mc_id=POG. You may also make reservations by calling 1-800-HILTONS and mention the group code: CALTEC to receive the group rate. Reservations must be made on or before the cut-off date.

Cut-Off Date: The “cut-off-date” for accepting reservations into CAMLT’s room block is Thursday, August 24, 2017. Reservation requests received after the cut-off date will be based on availability at the Hotel’s prevailing rates.

Attendee Billing: Individuals shall be responsible for their own room, tax, and incidental charges. All charges incurred are to be paid upon checkout. An early departure fee of $150.00 will be charged if a guest checks out of the hotel prior to confirmed departure date at time of check-in.

Check-In/Out Time: Check-in time is 3:00 p.m.; check-out time is 12:00 Noon. Room assignments prior to that time are on a “space availability” basis only. Any attendees staying in their rooms beyond checkout time without Hilton Santa Clara’s authorization will be charged for an additional room night at the best available rate. Late checkout is provided based on availability through authorization from the hotel Front Desk.

Hotel Guest Room Amenities: Specious guest rooms feature either two Double beds or one King size bed. Each bed features a pillow top mattress, down comforter, 250 thread count sheets and plush pillows. Additional amenities include Peter Thomas Roth™ bath products, both wired and wireless high-speed internet access, a 37” HDTV, an alarm clock/radio with MP3 connection, two dual line phones with voicemail, as well as a refrigerator, coffeemaker, hair dryer, safe, iron and ironing board.

Suites: The Hilton Santa Clara offers a variety of well-appointed suites, which feature all the standard guest room amenities. Additionally, each suite includes one King size bed and separate seating area, which is ideal for small gatherings or meetings.

Facilities: Pool/Spa, Hilton Fitness, Business Center, Gift Shop

Hotel Restaurants: La Fontana Restaurant – Experience award winning dining, which includes an array of California-inspired selections. Serving breakfast, lunch, and dinner. La Fontana Bar – Sit back and relax in this laid-back setting as you enjoy your favorite beverage, catch up on the news on one of several HDTVs or meet up with friends. Offering a variety of beer, wine, and spirits, as well as a bar menu. La Fontana Coffee Bar – Proudly serving Starbucks coffee and a variety of specialty beverages, coffee, and tea. Also, featuring a selection of pastries, bagels, and breakfast sandwiches.

Points of Interest Endless activities await your discovery. Top attractions include: California’s Great America Theme Park, The Tech Museum of Innovation, HP Pavilion at San Jose, Levi’s Stadium, 49er’s Museum, Winchester Mystery House, Sporting Events, Museums, Wineries, Santa Cruz Beach Boardwalk, San Francisco’s Fisherman’s Wharf Pier 39, just to name a few.
Exhibitors

Abbott Diagnostics
Advanced Instruments
Cepheid
DiaSorin
Fusion Medical Staffing
Kaiser Permanente
Medical Staffing Network
Palmdale Regional Medical Center
Precision BioLogics
Staff Ready Software Solutions
St. Agnes Medical Center
Sutter Health
Sysmex America
Waters Corporation
THANK YOU TO OUR SPONSORS:

Abbott Diagnostics Division
Abbott Hematology
Alzheimer’s Foundation
ARUP Laboratories
Beckman Coulter
BioFire Diagnostics
Bio-Rad Laboratories
Diagnostica Stago
Inova Diagnostics
Precision BioLogics
Roche Diagnostics
Sysmex America
Tripbeat, endless vacation (Fun-Nite Sponsor)
UC San Francisco – School of Nursing
East Bay Chapter
Fresno Chapter
Vitamin K Coagulopathy Overview: Manifestations, Diagnosis and Therapy

**175-100 – 3.0 CE – Level of Instruction: Intermediate**

Tatsiana Mardovina, MD, PhD
Scientific Market Development

&

Paul Riley, PhD, MBA
Scientific Business Development Manager
Diagnostica Stago, Inc.
Parsippany, NJ

*Sponsored by Diagnostica Stago, Inc.*

**Abstract:** This presentation will provide an overview of potential hemostasis outcomes related to Vitamin K deficiency with special focus paid to hemorrhagic disease in newborns. Clinical cases will be presented demonstrating the major clinical features of Vitamin K deficiency along with interpretation of the laboratory evidence of impaired coagulation related to Vitamin K deficiency.

New Horizons in Autoimmune Testing

**175-101 – 3.0 CE – Level of Instruction: Intermediate**

Robert Boyes, BS
Scientific Director
Inova Diagnostics
San Diego, CA

*Sponsored by Inova Diagnostics, Inc.*

**Abstract:** Autoimmune diseases affect approximately one in five Americans or 20% of the population. These diseases often disproportionately affect women with an estimated 75% or 30 million patients being women. Testing for autoimmune diseases has been an integral component of laboratory immunology for decades but now new and exciting assays and methods are making inroads into the laboratory. This lecture will look at the impacts of automating indirect immunofluorescent testing, discuss the impact of new biomarkers such as Calprotectin found in inflammatory bowel disease, antibodies to the PS/PT complex in antiphospholipid syndrome, and lastly, examine the role of these new biomarkers in the expanding area of personalized medicine. The difficulty level of this lecture is intermediate but those with no experience in autoimmunity will still enjoy the exposure to this exciting area of diagnostics.
**Hematology Essentials: A Foundation for Accurate Smear Reviews**

**175-200 – 3.0 CE** – Level of Instruction: Basic

Christine A. Hinz, MS, MLS (ASCP)CM
Product Manager, IT
Sysmex America, Inc.
Lincolnshire, IL

*Sponsored by Sysmex America, Inc.*

**Abstract:** Reviewing hematology slides can be challenging. A patient's blood picture is dependent on condition and treatment and can change over time. How can you distinguish a blast from a reactive lymphocyte? How do growth factor drugs affect WBC morphology? This workshop will take the attendees beyond the textbook on a practical journey through case studies that provide a basic review of hematology cells and morphology. Attendees will also gain insight on how to train new and current hematology technologists.

**More than 50 Years Later, Where Are We Now with Gluten? The Ever-Evolving Landscape of Celiac Disease and Non-Celiac Non-Wheat Allergy Gluten Sensitivity**

**175-201 – 3.0 CE** – Level of Instruction: Intermediate

Wen Kumfert, PhD
Senior Global Product Manager
Bio-Rad Laboratories, Inc.
Benicia, CA

*Sponsored by Bio-Rad Laboratories, Inc.*

**Abstract:** The first scientific study that established definitive association between gluten and celiac disease was published in the 1940s. More than 50 years later, we have learned a lot about celiac disease and celiac disease diagnostics, gluten-free diet becomes fashionable, new clinical symptom (non-celiac, non-wheat allergy gluten sensitivity) has been proposed and accepted into clinical practice, where are we now? Rather than just presenting the key facts about celiac disease, the development of celiac diagnostics, gluten and the new non-celiac non-wheat allergy gluten sensitivity, this seminar will attempt to thread the key facts through the lens of history, illustrate a path of how these key facts came about and shed some light on the ever-evolving landscape of celiac disease and non-celiac non-wheat gluten sensitivity research.

**Part I: Laboratory Diagnosis of von Willebrand Disease**

**Part II: Case Studies in Coagulation**

**175-202 – 3.0 CE** note: you must attend both parts to receive credit) – Level of Instruction: Intermediate

Larry J. Smith, PhD, SH(ASCP), HCLD/CC(ABB)
Medical and Scientific Affairs, Liaison Manager
Abbott Diagnostics Division – Hematology
Santa Clara, CA

*Sponsored by Abbott Diagnostics Division – Hematology*

**Abstract:** Von Willebrand disease (VWD) is the most common congenital bleeding abnormality in the world that affects approximately 1-2% of the general population. Clinical laboratories often provide several screening assays that measure different properties of von Willebrand factor to aid in diagnosis, but it can still be challenging. This review provides a brief review of the structure and function of the von Willebrand factor molecule, a description of the current classification scheme for VWD, a review of the assays required and preanalytical variables affecting these assays for accurate diagnosis.
WORKSHOP ABSTRACTS

Saturday Morning Courses
September 16, 2017
8:30 – 11:30 AM

Part I) Procalcitonin (PCT) Use in Sepsis Management and Antibiotic Treatment Decisions
Part II) Biomarkers for the Diagnosis of Alzheimer’s Disease
Part III) Women’s Health – Biomarkers in Clinical Practice and Future Approaches

175-300 – 3.0 CE (note: you must attend all three parts to receive credit) – Level of Instruction: Basic
James M. Harris, BA
Director, Medical and Scientific Affairs
Speakers TBA
Roche Diagnostics Corporation
Indianapolis, IN
Sponsored by Roche Diagnostics Corporation

Abstract (Part I): With more than 258,000 lives being lost per year, sepsis ranks as the third leading cause of death in the U.S. (after heart disease and cancer). Sepsis has been named as the expensive in-patient cost in American hospitals in 2011 at over $20 billion each year. Forty percent of patients diagnosed with severe sepsis do not survive. Until a cure for sepsis is found, early detection is the surest hope for survival. In addition, up to 50% of survivors suffer from post-sepsis syndrome. There are biomarkers that can help provide caregivers with great clinical clarity. One such marker is Procalcitonin (PCT), a protein that consists of 116 amino acids, is the peptide precursor of calcitonin, a hormone that is synthesized by the parafollicular C cells of the thyroid and involved in calcium homeostasis. Procalcitonin arises from endopeptidase-cleaved preprocalcitonin.

Abstract (Part II): The presentation will cover Alzheimer’s disease. With ever increasing disease prevalence and incidence for early onset and late onset Dementia, a need exists to build knowledge on the pathology with this disease. We will discuss the use of biomarkers for diagnosis or monitoring with disease progression with focus for how new biomarkers might influence and improve clinical practice and patient care.

Abstract (Part III): The presentation will cover diseases that are specific to female patients (breast- and ovarian cancer) or have a significantly higher prevalence in women (osteoporosis) or are related to pregnancy (preeclampsia). We will discuss the use of biomarkers for screening, diagnosis, therapy monitoring or recurrence testing and how new biomarkers might influence and improve clinical practice.

Hemostasis is Unique – The Cascade, the Diseases, and the Tests – All Mixed Up
175-301 – 3.0 CE – Level of Instruction: Intermediate
James F. DeMase, BS
Senior National Technical Sales Manager
Precision Biologics, Inc.
Dartmouth, Nova Scotia, Canada
Sponsored by Precision Biologics, Inc.

Abstract: This session will review the basics of hemostasis in the coagulation lab and enhance the basic understanding of hemostasis and thrombosis, describing the stages of hemostasis as well as common bleeding and clotting disorders. We will define hemophilia, and review its symptoms, diagnosis, and common treatments. The methods and clinical application of mixing studies will be outlined. Case studies will be used throughout the workshop to help attendees relate their learnings to real-world situations.
**What Made Sally Sick? The Use of Multiplex Polymerase Chain Reaction (PCR) Panels as First Line Tests for Detection of Respiratory, GI and Meningitis/Encephalitis Pathogens**

**175-400 – 3.0 CE – Level of Instruction: Intermediate**

Alex L. Sterling, BS  
Sales Manager, Laboratory Diagnostics  
BioFire Diagnostics, LLC  
Salt Lake City, UT  
*Sponsored by BioFire Diagnostics, LLC*

**Abstract:** Multiplex PCR panel has been available since 2008. Today, numerous PCR panels for detection of several respiratory and gastrointestinal pathogens are commercially available. In the area of testing for infectious disease, these products have become a disruptive technology in their ability to integrate molecular diagnostics and microbiology. Some of these tests are labor intensive, while others provide simple workflows; all of them are more expensive than standard technique to the laboratory and patient. Many of these assay panels can detect up to 22 pathogens. More confounding to the clinician is how these pathogens can cause similar symptoms, yet lead to different manifestations of infection within the same organ system. While some laboratories and hospitals have limited the frequency at which patients can be tested, others have allowed the ordering provider to exercise clinical judgment as to whether they are appropriate for first-line diagnostic testing.

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**Is this Lymphocyte Normal, Reactive or Malignant?**

**175-401 – 3.0 CE – Level of Instruction: Intermediate**

Steven Marionneaux, MS, MT(ASCP)  
Global Manager, Scientific Affairs  
Abbott Hematology  
Santa Clara, CA  
*Sponsored by Abbott Hematology*

**Abstract:** Lymphocyte morphology can be quite challenging at times. Normal lymphocytes are easy to call but morphology may change depending on what is happening with the patient. Infection, inflammation, drug exposure or a number of leukemias/lymphomas can alter their appearance. This session will attempt to provide criteria that can be used to objectively differentiate, identify and label different types of lymphoid cells. A method of reporting abnormal lymphoid cells will be formulated based on information discussed. Several case studies will be reviewed to illustrate how lymphoid neoplasms are currently classified by the WHO.
WORKSHOP ABSTRACTS

Sunday Morning Courses
September 17, 2017
8:30 – 11:30 AM

Part I) Advanced Antibody Identification: Case Studies
Part II) Laboratory Investigation of Transfusion Reactions: Case Studies

175-500 – 3.0 CE (note: you must attend both parts to receive credit) – Level of Instruction: Intermediate
Justin R. Rhees, MS, MLS(ASCP)CM, SBBCM
Program Director, Medical Laboratory Science, ARUP Laboratories
Assistant Professor of Pathology, Medical Laboratory Science, University of Utah School of Medicine
Salt Lake City, UT
Sponsored by ARUP Laboratories

Abstract (Part I): Difficult antibody identification cases in transfusion can be more easily resolved with knowledge of blood group antigen characteristics, antibody idiosyncrasies, and established algorithms to help know which way to go. However, even with the best of these, the process can still feel a bit like falling down a rabbit hole. In this presentation, we will explore several advanced cases, and you may be a bit surprised at the end when the answer isn’t exactly what you expect.

Abstract (Part II): Many of the signs and symptoms of transfusion reactions are shared, and not all reactions are diagnosed by tests performed in the laboratory. This session includes a review of the characteristics of acute and delayed hemolytic and nonhemolytic transfusion reactions, and several case studies are presented.

Help and Hope in Alzheimer’s Science and Care

175-501 – 3.0 CE – Level of Instruction: Basic
Alexandra Morris, MA
Certified Professional Geriatric Care Manager
Credentialed Professional Gerontologist
Alzheimer’s Association
San Jose, CA
Sponsored by CAMLT

Abstract: The lecturer will present an update on Alzheimer’s and related disorders and current approaches to treatment. Discussion on how advances in biomarkers, brain scans and genetic testing are impacting the diagnosis, treatment, and research of Alzheimer’s. The latest in drug research and what looks promising for the future will be presented.
**Which of the Two Make the Best Soul Mate? An Infectious or Autoimmune Antibody?**

175-600 – 3.0 CE – Level of Instruction: Basic  
Maria Crisostomo, MBA  
Senior Product Manager, North America Sales Division  
Bio-Rad Laboratories, Inc.  
Benicia, CA  
*Sponsored by Bio-Rad Laboratories, Inc.*

**Abstract:** This session will take participants through a memory lane walk-through of diagnostic testing in the areas of HIV, syphilis and autoimmunity. As a basic overview, participants will be able to regain an understanding of the evolution of testing in these three areas, their respective testing algorithms and how the “perfect” pairing of antigen and antibody contributes to laboratory’s decision as to which tests are appropriate for their patient population and laboratory workflow.

**Part I) California’s Medical Laboratory Technician Workforce: Research and Policy Implications**  
**Part II) How to Improve the Laboratory Experience - CLS and MLT Working Together**

175-601 – 3.0 CE (note: you must attend both parts to receive credit) – Level of Instruction: Intermediate  
Susan Chapman, PhD, MPH, MSN, BSN  
Professor  
University of California, San Francisco – School of Nursing  
San Francisco, CA  
&  
Dora W. Goto, MS, CLS, MLS(ASCP)CM  
Past-President  
California Association for Medical Laboratory Technology  
Fremont, CA

**Abstract (Part I):** California faces laboratory workforce shortages to meet the healthcare demands of the population. The state developed regulations for the MLT more than a decade ago. Yet growth in the utilization of MLTs has been slow in many organizations and parts of the state. This national study compares the California MLT workforce to other states. MLT supply is scarce and the scope of practice laws are more restrictive than any other state. Laboratory personnel in other states that regulate MLTs generally support MLTs practicing to their highest level of training. Several policy implications that need to be considered for future growth of the MLT role in California.

**Abstract (Part II):** Until December 19, 2007, only Clinical Laboratory Scientists (CLS) were recognized as testing personnel in California laboratories. A newer category of laboratory testing personnel known as Medical Laboratory Technicians (MLT) had begun to be recognized as testing personnel in California as well. In addition, regulations certifying Phlebotomists (CPT) have been in effect since 2003. Official recognition of these categories provides a “career ladder” within our laboratories and will help staff laboratories with appropriately trained personnel. Licensure of mid-level testing personnel as MLTs will positively impact the laboratory personnel workforce shortage in California, but will not solve all our staffing issues nor take the place of the CLS.
Friday, September 15

175-109 – Student Forum
1:00 – 4:30 PM

175-100 – 3.0 CE
8:30 – 11:30 AM
Level of Instruction: Intermediate
Tatsiana Mardovina, MD, PhD & Paul Riley, PhD, MBA
Vitamin K Coagulopathy Overview: Manifestations, Diagnosis and Therapy
Sponsored by Diagnostica Stago, Inc.

175-101 – 3.0 CE
8:30 – 11:30 AM
Level of Instruction: Intermediate
Robert Boyes, BS
New Horizons in Autoimmune Testing
Sponsored by Inova Diagnostics, Inc.

175-200 – 3.0 CE
1:30 – 4:30 PM
Level of Instruction: Basic
Christine Hinz, MS, MLS (ASCP)
Hematology Essentials: A Foundation for Accurate Smear Reviews
Sponsored by Sysmex America, Inc.

175-201 – 3.0 CE
1:30 – 4:30 PM
Level of Instruction: Intermediate
Wen Kumfert, PhD
More Than 50 Years Later, Where Are We Now with Gluten? The Ever-Evolving Landscape of Celiac Disease and Non-Celiac Non-Wheat Allergy Gluten Sensitivity
Sponsored by Bio-Rad Laboratories, Inc.

175-202 – 3.0 CE (Note: you must attend both parts to receive credit)
1:30 – 4:30 PM
Level of Instruction: Intermediate
Larry J. Smith, PhD, SH(ASCP), HCLD/CC(ABB)
Part I) Laboratory Diagnosis of von Willebrand Disease
Part II) Case Studies in Coagulation
Sponsored by Abbott Diagnostic Division - Hematology

Saturday, September 16

175-300 – 3.0 CE (Note: you must attend all three parts to receive credit)
8:30 – 11:30 AM
Level of Instruction: Basic
James M. Harris, BA, and Speakers TBA
Part I) Procalcitonin (PCT) Use in Sepsis Management and Antibiotic Treatment Decisions
Part II) Biomarkers for the Diagnosis of Alzheimer's Disease
Part III) Women's Health – Biomarkers in Clinical Practice and Future Approaches
Sponsored by Roche Diagnostics Corporation

175-301 – 3.0 CE
8:30 – 11:30 AM
Level of Instruction: Intermediate
James F. DeMase, BS
Hemostasis is Unique – The Cascade, the Diseases, and the Tests – All Mixed Up
Sponsored by Precision BioLogics, Inc.

Sunday, September 17

175-500 – 3.0 CE (Note: you must attend both parts to receive credit)
8:30 – 11:30 AM
Level of Instruction: Intermediate
Justin R. Rhees, MS, MLS(ASCP)
Part I) Advanced Antibody Identification: Case Studies
Part II) Transfusion Reactions: Case Studies
Sponsored by ARUP Laboratories

175-501 – 3.0 CE
8:30 – 11:30 AM
Level of Instruction: Basic
Alexandra Morris, MA
Help and Hope in Alzheimer's Science and Care
Sponsored by CAMLT

175-600 – 3.0 CE
1:30 – 4:30 PM
Level of Instruction: Basic
Maria Crisostomo, MBA
Which of the Two Make the Best Soul Mate? An Infectious or Autoimmune Antibody?
Sponsored by Bio-Rad Laboratories, Inc.

175-601 – 3.0 CE (Note: you must attend both parts to receive credit)
1:30 – 4:30 PM
Level of Instruction: Intermediate
Susan Chapman, PhD, MPH, MSN, BSN
Part I) California's Medical Laboratory Technician Workforce: Research and Policy
Part II) Transfusion Reactions: Case Studies
Dora Goto, MS, CLS, MLS(ASCP)CM
Sponsored by University of California, San Francisco – School of Nursing and CAMLT
CAMLT 2017 ANNUAL MEETING
REGISTRATION FORM
September 15-17, 2017

Print Clearly. One registrant per form only (copies are acceptable). Incomplete forms will be returned unprocessed.

Name: __________________________________________
Home Address: _____________________________________
City: __________________________ State: ______ Zip: ______
Exclude my name from attendee list for exhibitors [ ]

Day Tel: ____________________________________________
Preferred Email: ___________________________________

( ) CAMLT Member #: ________________________________
CDPH License #: __________________ Renewal Date: ______

Employer: __________________________________________
Work Address: ______________________________________
City: _________________________ State: ______ Zip: ______
Work Tel: __________________________________________

( ) Check here to register as a Clinical Science student *
Ed Coordinator/Instructor ________________________
School/Program _______________________________
Phone __________ Email _______________________

*Name/Email/Phone # of Educ. Coordinator/Instructor required here for student rate!

A. CAMLT MEMBERSHIP (optional): Total A $ ______
Membership Type __________________________ Add 20/20 Option ...... ( )
See website for Membership Category explanation

B. GENERAL REGISTRATION FEE: Total B $ ______
(Required of All Registrants)

“Early Bird” registration fee: Pre-Registration fee:
(Only if postmarked by 8/24) (If postmarked after 8/24)
( ) Member: $30 ( ) Member: $40
( ) Non-member: $40 ( ) Non-member: $60
( ) Student: Free (does not include CEUs) ( ) Student: Free (does not include CEUs)

C. WORKSHOPS: Total C $ ______
See program for details and code numbers, then indicate workshop choice(s) by entering code numbers below (e.g., 175-100):

<table>
<thead>
<tr>
<th></th>
<th>AM</th>
<th>PM</th>
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<tbody>
<tr>
<td>Fri., 9/15</td>
<td></td>
<td></td>
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<tr>
<td>Sat., 9/16</td>
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<td></td>
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<tr>
<td>Sun., 9/17</td>
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</tbody>
</table>

Member: $45 if attending only one workshop
$40 for each workshop if attending more than one
# of workshops ______ X ______ = $ ______

Non-Member: $60 if attending only one workshop
$55 for each workshop if attending more than one
# of workshops ______ X ______ = $ ______

Student: Just $5 per workshop! – CEU not applicable

D. 20/20 DISCOUNT: Total D ($______)
If you are a member enrolled for this optional benefit, calculate your discount here and include it in the Grand Total below.
Registration (Section B): $ ______
Workshop (Section C): $ ______
Total B + C: $ ______ x 0.20 = $ ______

E. SOCIAL EVENTS: Total E $ ______
Fun Night (Friday, 9/15)
(______ tickets @ $55 ea. = ________)
Installation Banquet (Saturday, 9/16)
(______ tickets @ $60 ea. = ________________)
( Indicate your choice: [ ] Beef [ ] Fish [ ] Vegetarian )

F. STUDENT FORUM: $ free!
Student Forum is open to all registered attendees.
Check here to attend Student Forum .... ( )

G. CAMLT LAB-PAC EVENTS Total G $ ______
LAB-PAC events are tracked separately but included in the Grand Total below:
Run/Walk/Stroll (Sat., 9/16) @ $25 ea. = $ ______
LAB-PAC Luncheon (Sat., 9/16) @ $45 ea. = $ ______

GRAND TOTAL (A+B+C–D+E+G) $ ________

METHOD OF PAYMENT:
( ) Check Payable to: CAMLT 2017 Annual Meeting
(Returned checks subject to a $20 fee)

( ) VISA or ( ) MasterCard (indicate card type)
Card #: ______________________________ Exp. Date: __________
3-digit security code: __________
Signature: ___________________________________________

Mail to: CAMLT 2017 ANNUAL MEETING
39656 Mission Blvd., Fremont, CA 94539
Questions? Call us at 510-792-4441 or email at office@camlt.org
If paying by MasterCard or VISA, form may be faxed to 510-792-3045 or scanned/emailed to: office@camlt.org

FOR OFFICE USE ONLY:
Date: ____________ Co. Ck# __________ Pers. Ck# __________
Amount: ____________ O/P: ______U/P: _______
VISA/MC Credit Authorization: ________________

Pre-registration deadline: Thursday, September 7, 2017 at Noon
Registrations received after the above date/time will not be processed.
Please register on-site.

Online registration and PayPal payment available at www.camlt.org
CAMLT is very excited to finally introduce you to the **New CAMLT Expanded Members Benefit Program**. The new program is offered to CAMLT members only and will save you thousands of dollars a year! Here’s how...

CAMLT has partnered with over 20 companies and services to offer you deals on; travel, car rentals, buying computers, shopping for flowers, foods, gifts, tax prep services, sports or entertainment tickets and much, much more.  

**You can now save thousands of $ dollars per year with your CAMLT membership!**

<table>
<thead>
<tr>
<th>CAMLT</th>
<th>Offering</th>
<th>Member Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 800 Flowers</td>
<td>Flowers, etc.</td>
<td>15% off (additional holidays)</td>
</tr>
<tr>
<td>1 800 Baskets.com</td>
<td>Gift Baskets</td>
<td>15% off (additional holidays)</td>
</tr>
<tr>
<td>Fruit bouquets.com</td>
<td>Fruit inspired arrangements</td>
<td>15% off (additional holidays)</td>
</tr>
<tr>
<td>Cheryl’s cookies</td>
<td>Cookie arrangements</td>
<td>15% off (additional holidays)</td>
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<tr>
<td>Fanny May</td>
<td>Fine Chocolate arrangements</td>
<td>15% off (additional holidays)</td>
</tr>
<tr>
<td>The Popcorn Factory</td>
<td>Popcorn arrangements</td>
<td>15% off (additional holidays)</td>
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<tr>
<td>Stock Yards</td>
<td>Appetizers, Meats and Dessert collections</td>
<td>15% off (additional holidays)</td>
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<tr>
<td>Wolfman’s</td>
<td>Baked Goods collections</td>
<td>15% off (additional holidays)</td>
</tr>
<tr>
<td>Harry &amp; Davids</td>
<td>Gourmet gift collections</td>
<td>15% off (additional holidays)</td>
</tr>
<tr>
<td>MemberDeals</td>
<td>Hotels, Theme Parks, Shows, Gift Cards etc.</td>
<td>25% to 50% off</td>
</tr>
<tr>
<td>Snazzy Traveler (SaveonResorts)</td>
<td>Hotels, Car Rentals, Cruises</td>
<td>Waive $99 sign-up fee 25% to 30%</td>
</tr>
<tr>
<td>Avis/Budget</td>
<td>Vehicle Rentals</td>
<td>up to 25% off — Free Upgrades</td>
</tr>
<tr>
<td>Best Western Hotels</td>
<td>Hotels and Resorts</td>
<td>15% off Best Available Rate</td>
</tr>
<tr>
<td>Liberty Tax Services</td>
<td>Online or onsite taxes</td>
<td>$50 off</td>
</tr>
<tr>
<td>Lenovo</td>
<td>Computers, tablets, smart phones etc.</td>
<td>25% to 35% off Exclusive promos and closeouts</td>
</tr>
<tr>
<td>Preferred Hotels</td>
<td>Hotels and resorts</td>
<td>15% off minimum</td>
</tr>
<tr>
<td>UnbeatableSale</td>
<td>Online retail Discount store</td>
<td>15% discount</td>
</tr>
<tr>
<td>Tripeak Endless Vacation</td>
<td>Vacation rentals</td>
<td>$200 weekly discount on rentals</td>
</tr>
<tr>
<td>(Wyndham Destination Network)</td>
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<tr>
<td>Roku</td>
<td>Streaming TV and media players</td>
<td>$10 off</td>
</tr>
<tr>
<td>Vubiz</td>
<td>E-Learning online classes</td>
<td>Specially Priced</td>
</tr>
<tr>
<td>Brookstone</td>
<td>Online retail store</td>
<td>20% off Monthly CAMLT Selection</td>
</tr>
<tr>
<td>Solo</td>
<td>Backpacks, tablet cases etc.</td>
<td>25% off</td>
</tr>
<tr>
<td>Copa Airlines</td>
<td>Airline tickets</td>
<td>Spring sale for 20% fall travel savings</td>
</tr>
</tbody>
</table>
California Association for Medical Laboratory Technology
Membership Application

Personal Information:
Name ___________________________________
Check one: (   ) Ms.  |   (   ) Mrs.  |  (   )  Mr.  |  (   ) Dr.
Address _________________________________
City _________________State ____ Zip _______
LFS License/Certificate # ___________________
Day Phone _____________________________
Preferred Email address: ____________________
[ ] Check here to opt out of email list

Employment Information:
Employer ________________________________
Address _________________________________
City _________________ State ____ Zip _______
Work Phone ______________________________

Applicants are considered for membership in the category which meets their maximum qualifications.
I declare that in making application for membership, I have met the qualifications listed for the category to which I am applying.
Applicant Signature ________________________
Recruiter (if known) ________________________

Membership Categories:
[ ] Active - $120 annually
An individual who 1) Holds a license or certification in a clinical laboratory profession issued by the California Department of Public Health or 2) Holds a baccalaureate degree from an accredited college or university and is eligible to sit for a CDPH approved examination; or 3) Holds a Masters or Doctorate degree in science, education or administration and is actively employed in clinical laboratory science.

[ ] Collaborative – $65 annually
An optional special non-voting, non-office holding membership category open to licensed Medical Laboratory Technicians or Certified Phlebotomy Technicians, who desire to support the association. All other membership benefits are afforded. These members are also eligible to apply for active membership if they desire to vote and/or hold office in the association.

[ ] Associate - $75 annually
An individual who has an interest in the field of clinical laboratory science and/or supporting the purposes or goals of CAMLT, but is not otherwise eligible for membership.

[ ] Student - $10 annually
An individual who possesses a valid training license from Laboratory Field Services or who is enrolled in an LFS approved program leading to licensing as a CLS, or MLT or certification as a CPT. Students at accredited universities or colleges that lead to eligibility for licensure or certification from LFS are also eligible to join as student members.

[ ] Lifetime - $1250 one time fee
Meets Active member requirements and submits the one time application fee.

[ ] 20/20 Option - Additional $20 annually
An additional $20 payment at the time of application or renewal entitles the member a 20% discount on CAMLT state sponsored C.E. fees for the year (not applicable to Distance Learning).

Membership Dues          _________
20/20 Option           _________
Total payable to CAMLT _________
LAB-PAC Contribution (separate check) _________
E & R Foundation Donation (separate check) _________

Checks to: CAMLT, LAB-PAC and/or E & R as appropriate – OR -
Credit Card Payment: [ ] Visa [ ] Master Card
Card# ____________________________ Exp. ________
Three-digit security code (on back of credit card): ___________
Date __________ Signature ______________________________

CAMLT asks you to contribute to one or both of these worthwhile entities:

LAB-PAC
The CAMLT Political Action Committee helps your association advocate on behalf of you and your profession. Help support quality clinical laboratory medicine in the California legislative arena.
LAB-PAC contributions are NOT tax deductible.
You must be a U.S. citizen to donate.

Education and Research Foundation
Your tax deductible contribution supports scholarship programs, outreach efforts and students pursuing careers in the clinical laboratory sciences.

Separate checks should be enclosed for each of these worthy causes.

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Applicant Signature ________________________
Recruiter (if known) ________________________

AUTOMATIC RENEWAL AVAILABLE! You now have a convenient new option to pay your CAMLT membership dues!
[ ] Automatic renewal: Credit card listed will be charged on the renewal date each year for the same member category. Notice of renewal will be sent fifteen (15) days before the charge is entered to allow for changes in member category or updates to credit card information.
Sign here to enroll for the automatic renewal option:
_________________________________________________ Date: ____________________

CAMLT’s new address as of July 10, 2015:
39656 Mission Blvd., Fremont, CA 94539
Scan/email to: office@camlt.org
Fax to: 510-792-3045 Voice Phone: 510-792-4441

July, 2017
CAMLT/Newsline 19
CAMLT - A Smart Partnership

Technology

Teamwork

78th Annual Meetings and Exhibits
September 15 - 17, 2017
Santa Clara Hilton

Look inside for details about…

CONTINUING EDUCATION SEMINARS (Friday, Saturday, and Sunday)

STUDENT DAY (Friday)

EXHIBITS (Friday and Saturday)

FUN NITE (Friday)

LAB-PAC RUN/WALK/STROLL (Saturday)

HOUSE OF DELEGATES (Saturday)

LAB-PAC LUNCHEON (Saturday)

INSTALLATION BANQUET (Saturday)