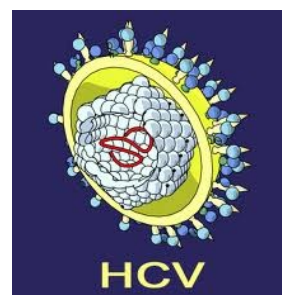




31st Annual NCASM Spring Meeting
MARCH 7th & 8th, 2014

**THERE'S NO PLACE LIKE HOME.....
IN THE MICROBIOME**



THE CEU COURSE NUMBERS FOR THIS MEETING ARE 14-001 THROUGH 14-007

OUR SUSTAINING MEMBERS:

PLATINUM:

- ADVANDx
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- ADVANCED INSTRUMENTS, INC
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SILVER:

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PLEASE SUPPORT OUR SUSTAINING MEMBERS...
Their support helps bring you this meeting!

NEW NCASM WEBSITE URL:
www.asmbanches.org/brcano
ONLINE REGISTRATION AVAILABLE

★SESSION 1: What's in Your Water?

Location: Triple Crown

Convener: Richard Danielson, BioVir Laboratories, Benicia, CA

Welcome and Announcements

8:25 - 8:30

8:30-9:20 Microbiological Issues in Plumbing your Premises

Jennifer Clancy PhD, Clancy & Associates — St Albans, VT

What pathogens lurk in your "pipes"? Have you wondered how the environment of plumbing networks impacts the growth of opportunistic pathogens? Dr. Clancy will introduce us to key players that cause plumbing-associated outbreaks as we explore what lurks below the drain.

9:20 - 10:10 Break - Continental Breakfast in the Exhibit Hall — Olympic Ballroom Gold & Silver

10:10 - 11:00 Risks on the Half Shell: Public Health Issues in Commercial Shellfish Growing Areas

Gregg Langlois MS, California Department of Public Health — Richmond, CA

Expansion of the aquaculture industry and anthropogenic change in the aquatic milieu are creating unique public health risks associated with the farming and consumption of bivalve shellfish. Mr. Langlois will help us wade through recent developments in the field of protecting coastal delicacies.

11:00 - 11:50 The Microbial Metabolism of Arsenic: New Twists on an Old Poison

John Stolz PhD, CERF, Duquesne University — Pittsburgh, PA

Research over the past two decades has uncovered a wealth of organisms that not only survive exposure to the notorious poison arsenic - they "thrive" (metabolize) it! Join Dr. Stolz to explore crossing the "fine line" between a poison and a remedy.

PRESENTATION SPONSORED by the ASM BRANCH LECTURES/SHIPS PROGRAM

LUNCH — EXHIBIT HALL, Olympic Ballroom

★SESSION 4: Friend or Foe? Microbiology of Surgery and Transplantation

★SESSION 3: Where It's At — Microbiology of The Gut

Location: Triple Crown

Convener: Dennis Mangan, Chalk Talk Science Educational Services, Santa Rosa, CA

1:40 - 2:30

The Gut Microbiome — A New Frontier in Human Health

Susan Lynch PhD, University of California, San Francisco — San Francisco, CA

We are discovering that microbial colonization of the gut initiates a cascade of mechanisms affecting humans from head to toe. Dr. Lynch introduces us to tools used to study microbes of the digestive system. She will also discuss how the gut influences airway immune responses.

2:30 - 3:20

Break - Refreshment in the Exhibit Hall — Olympic Ballroom Gold & Silver

3:20 - 4:10

Bugs, Guts & Brains: How Gut Microbiota Influence Behavior

Helen Raybould PhD, University of California, Davis — Davis, CA

The ability of gut microbiota to communicate with the brain and modulate behavior is emerging as an exciting concept in health and disease. Dr. Raybould will help us explore this connection and the possibility that your teen's erratic behavior may be more "nature" than "nurture".

4:10 - 5:00

Salmonella Pathogenesis: A Bug's Life

Ferric C. Fang MD, University of Washington — Seattle, WA

Salmonella are just one of the enteric bacterial species that have shared evolutionary history with human hosts. Dr. Fang joins us to discuss new infection models & how these models can provide insights into how typhoid survives the intercellular milieu and causes disease.

PRESENTATION SPONSORED by the MARILYN COWARD FUND

★SESSION 2: Clinical Microbiology — Let's Talk Sexy

Location: Olympic Ballroom — Bronze

Convener: Mark Stanley, Kaiser Regional Labs, Berkeley, CA

Welcome and Announcements

8:25 - 8:30

8:30 - 9:20 What's Up With STDs in the Golden State? The Epidemiology of Sexually Transmitted Diseases in California

Michael Samuel DrPH, MPH, California Department of Public Health — Richmond, CA

Do you know which STDs are most common? Groups most at risk? Are STD cases increasing or decreasing? Learn the answers — and more as Dr. Samuel describes STD epidemiology patterns and gonococcal antimicrobial resistance in California.

PRESENTATION SPONSORED by the PUBLIC HEALTH EDUCATION FUND

9:20 - 10:10 Break - Continental Breakfast in the Exhibit Hall — Olympic Ballroom Gold & Silver

10:10 - 11:00 State of the Art: Testing for STIs in the 21st Century

Jeffrey Schapiro, MD, Kaiser Permanente Regional Laboratory — Berkeley, CA

Culture? NAAT? Serology? Reverse Algorithms? Concerned that you may be missing something when it comes to detecting STIs? Dr. Schapiro helps us navigate the brave new world of testing to detect some of mankind's oldest "friends".

11:00 - 11:50 Fifty Ways to Leave Your Lover: HPV Diagnostics

Deirdre Piery MCLS, SM, MB(ASCP), Chromosome Crawl Inc — Redwood City, CA

Discovering the connection between cervical cancer and HPV infection transformed women's healthcare worldwide. Testing (previously cytotechnicians scanning slides for elusive cancer cells) now employs assays to detect HPV DNA, RNA and oncoproteins.

★SESSION 4: Friend or Foe? Microbiology of Surgery and Transplantation

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Location: Olympic Ballroom — Bronze

Convener: Barbara Haller, University of California, San Francisco

Surgical Pathology for Microbiologists

Michael DiMaio MD, Stanford University Medical Center — Palo Alto, CA

Join Dr. DiMaio as he takes us on a tour of the Surgical Path lab "down the hall" as we follow from specimen collection to diagnosis and reporting. Learn to recognize histologic features of infectious disease pathology and ancillary techniques and, finally, understand the limitations of surgical pathology in regards to a microbiologic diagnosis.

2:30 - 3:20

Break - Refreshment in the Exhibit Hall — Olympic Ballroom Gold & Silver

3:20 - 4:10

Transplantation-Associated Infections

Peter Chin-Hong MD, University of California, San Francisco — San Francisco, CA

Transplantations of solid and bone marrow tissues are life-saving procedures, and yet they can usher in their own dangers. These may include donor-derived microbes hitching a ride to a new host or new infections that particularly infect immune-compromised hosts. Join Dr. Chin-Hong to explore the "dark side" of these life-saving procedures.

4:10 - 5:00

Fresh Infusions: The Science Behind Fecal Transplants

Emily Hollister PhD, Baylor College of Medicine — Houston, TX

It's a brave new world! Join Dr. Hollister to review the history and theory of fecal transplantation as a cure for GI infections and disorders. Explore safety considerations and case studies for this promising and innovative form of therapy.

★★ SATURDAY — MARCH 8 ★ REGISTRATION, Olympic Ballroom Lobby ★7:15 AM ★★

★SESSION 5: Going Viral—Lurking Viruses

Location: Olympic Ballroom – Bronze

Convener: Hamida Nusrat, San Francisco State University, San Francisco, CA

Welcome and Announcements

Hepatitis C: An Infectious Disease of Our Time

Peter Agron PhD, Actelion Pharmaceuticals — Castro Valley, CA

For a while, Hepatitis C has been the smoldering epidemic—one we've been able to identify in the lab—but a disease with few treatments. Recent advances in treatment and diagnostic testing are paving the way to meaningful advances in Hepatitis C health care. Dr. Agron will update our knowledge of HCV disease.

Break - Continental Breakfast in the Exhibit Hall — Olympic Ballroom Gold & Silver

West Nile Virus Human Testing and Surveillance in California

Maria Salas MPH, California Department of Public Health, VRDL— Richmond, CA

Cases of West Nile Virus have tapered in the past few years, but don't be lulled into an "out of sight, out of mind" sense of security. Join Ms. Salas for an engaging look at recent advances in our understanding of the transmission and epidemiology of WNV in the state.

The Enemy Within: Human Cytomegalovirus (HCMV)

Juliet Spencer PhD, University of San Francisco — San Francisco, CA

HCMV viruses employ a variety of tricks to evade host defenses and establish lifelong latency. Dr. Spencer describes the symptoms of HCMV disease and will discuss current work to advance our understanding of the myriad viral cytokines and chemokines that modify the host immune response.

★SESSION 6: Ask the Experts — What's Your Inspiration?

Location: Triple Crown

Convener and Moderator:

Joseph Chen, San Francisco State University, San Francisco, CA

Welcome and Announcements

7:55 - 8:00 Ferric Fang, MD, University of Washington

★The Pathogenesis of Research Misconduct★

8:40 - 8:50 Think-Pair-Share (generate questions and collect cards)

8:50 - 9:10 Q & A with Dr. Fang

9:10 - 9:50 Break - Continental Breakfast in the Exhibit Hall — Olympic Ballroom Gold & Silver

9:50 - 10:30 Ellen Jo Baron, PhD, Cepheid

★Current Status of Tuberculosis in the US Today★

10:30 - 10:35 Think-Pair-Share (generate questions and collect cards)

10:35 -11:15 Dennis F. Mangan, PhD, Chalk Talk Science Educational Services

★Communicating Science to the Public...a Professional Necessity?★

11:15 - 11:20 Think-Pair-Share (generate questions and collect cards)

11:20 -11:40 Panel Q&A with Drs. Baron and Mangan, Conclusions, Wrap-Up

10:40 - 11:30



Session 6 has a dual focus: Join our distinguished panelists as they discuss their most recent projects and share their scientific inspirations. Participants will be able to network with the speakers and other professional microbiologists at the session break and our banquet lunch.



★★ LUNCH and NCASM Business Meeting 11:40 - 1:30 ★★

Olympic Ballroom – Gold & Silver

★SESSION 7: Keynote Discussions of Microbiomes in Health & the Environment

Location: Olympic Ballroom – Gold & Silver

★Convener: Manjula Mudambi — NCASM President 2013-2015★

1:30 - 2:20 **Discovering the Role of the Microbiome in Human Health through the Power of Metagenomics**

Tanya Yatsunenکو PhD, Second Genome — South San Francisco, CA

Dr. Yatsunenکو will introduce us to the microbiome and its role in human health. Her presentation will include current approaches to culture-independent analyses of microbial communities. Find out—through examples—how bioinformatics tools facilitate discovery of microbial communities and how this impacts human health.

2:20 - 3:10 **Urine is NOT Sterile: The Urinary Microbiome**

Paul Schreckenberger PhD, D(ABMM), F(AAM), MT, Loyola University Medical Center — Maywood, IL

The Guru of glucose non-fermenters joins us to shed light on a new subject! Dr. Schreckenberger will discuss the role of expanded quantitative urine cultures (EQUC) in the discovery that a large percentage of urine cultures tagged as "no growth" might actually yield isolates if studied with the right tools! Joins us for a look at a newly discovered community of living bacteria — the urinary bladder microbiome.

KEYNOTE SPEAKER SPONSORED by SIEMENS HEALTHCARE DIAGNOSTICS

3:10 - 4:00 **Life in the Frack Pit: The Microbiology of Unconventional Shale Gas Extraction**

John Stolz, PhD, CERE, Duquesne University — Pittsburgh, PA

The Marcellus Shale is a shale deposit formed from an inland sea 390 million years ago. Molecular analyses coupled with enrichment culture revealed that water from the Marcellus Shale has a unique microbiota dominated by halophilic species. This presentation will provide an overview of the processes involved in and the microbiology associated with unconventional gas extraction.

PRESENTATION SPONSORED by the ASM BRANCH LECTURES/SHIPS PROGRAM

31st Annual NCASM Meeting MARCH 7th & 8th, 2014

PREREGISTRATION DEADLINE –online by 3/4/2014; mail-in postmarked by 3/1/2014



NCASM Secretary:

Katya Polovina

*UCSF Dept. of Microbiology & Immunology
University of California, San Francisco
400 Parnassus Rm AC-34, Box 1307
San Francisco, CA 94143*

Hilton Pleasanton @ the Club—Pleasanton, CA

7050 Johnson Dr.

Pleasanton, CA 94588

At the intersection of I-580 & I-680

Please contact the Hilton for reservations: **(925) 463-8000**

Tell them you are with the NCASM meeting for special room rate of **\$74/night !**

***** **Rate cut-off Feb. 21st, 2014** *****

Register for this group rate by asking to book with the NCASM Meeting (code = NCA)

Directions to the Hilton Pleasanton @ the Club:

From SF:

Take I-80 East to the Bay Bridge / Oakland to I-580 East (towards the I-580/CA24 split). Continue on I-580E, exit at Hopyard Rd. Turn right onto Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the Peninsula:

Take US-101 to the San Mateo Bridge I-92. Take I-92 East to I-880 North. Continue on I-880 N to CA-238 (exit 31A). Follow ramp onto CA-238 towards Castro Valley/Stockton. Merge onto I-580 East, continue to the Hopyard Rd. exit. Turn right on to Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the South Bay:

Take I-880 North to exit 12A (Mission Blvd). Continue towards I-680N (to Sacramento). Continue on I-680N to exit 29 (Stoneridge Dr. 16 miles). Exit at Stoneridge, Take a right at bottom of ramp. Driving right on Stoneridge, take the first left onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the North Bay:

Take US-101 to I-580 East. Take the I-580E to the Richmond-San Rafael Bridge. Cross the bridge and follow the sign reading "I-580 E to Downtown Oakland / Hayward / Stockton", continuing on I-580E; exit at the Hopyard Rd. exit. Turn right on to Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the East Bay:

The Conference site is located at the intersection of I-580 and I-680 on the opposite side of 680 from Stoneridge Mall. Exit 580 at the Hopyard Rd. exit. Turn right onto Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

GENERAL INFORMATION

Full Registration

Includes all sessions for both days, exhibits, refreshments, and all food and beverage functions provided by NCASM throughout the entire meeting.

Single Day Registration

Includes sessions, exhibits, refreshments, and all food and beverage functions provided by NCASM for the day of registration.

Student Registration (Full Time Students Only)

Includes sessions, exhibits, refreshments, and all food and beverage functions provided by NCASM for the time attending. When registering, students MUST submit a copy of a valid STUDENT I.D. CARD. One fee is valid for either day or for the entire meeting.

Transportation & Parking

The Hilton is adjacent to the Pleasanton BART stop. Free parking is offered at the Hilton. Overflow parking available behind the hotel.

Membership

NCASM membership runs from January 1 to December 31 of each year. Membership is \$25.00 a year and student membership is \$5.00 a year. Membership in NCASM gives you a network within the microbiology community. As a member you will receive NCASM newsletters, notification of two general meetings a year, **free** CEUs at NCASM meetings, and information regarding regional meetings in your area.

Exhibits

Take the opportunity to visit with the companies that provide products and services to your laboratory. Exhibits are open during all the breaks, Friday at lunch and during the Friday evening Reception.

NCASM Message Board

NCASM provides both a message board (so that you can easily leave messages and notes for your colleagues), as well as a Job/Position Board for employment opportunity announcements.

Americans with Disabilities Act (ADA)

To comply with ADA requirements, NCASM and the Hilton Pleasanton will make every effort to provide for the participant's comfort and convenience.

NCASM Poster Session

NCASM will be hosting a poster session at this meeting. Microbiology—themed posters can be presented during this session. For further information, contact Janice Hamer at: ncasmpostersession@zoho.com

Continuing Education

NCASM is an approved provider and accrediting agency (accreditation #0044) for the California Laboratory Continuing Education. All NCASM Spring Meeting sessions qualify for 3 continuing education units (3 contact hours). CEU Certificates of Attendance will be available on-site at the **END of each day**.

Instructions for Receiving CEU:

1. Evaluation forms will be distributed to those participants requesting CEUs in each session during the **first 10 minutes only**. Only **one** CEU evaluation form will be given for concurrent sessions. After the first 10 minutes, participants must pick up a CEU evaluation form at the CEU desk. **Participants who arrive after the first 10 minutes of a presentation are not eligible to receive CEU credits for the lecture.**
2. You may attend talks in either concurrent session, but must **complete an evaluation** form for each presentation attended. Each talk is one (1) contact hour. There are three (3) contact hours in each session.
3. You must submit the following to the CEU booth at the **completion of your total attendance** at the meeting:
 - a. A completed evaluation form from all of the attended sessions.
 - b. Your name tag to verify your paid attendance.
4. You will receive a CEU certificate after personally signing the roster at the CEU booth.
5. Only one (1) CEU certificate will be issued to each participant.

**** No certificates will be mailed. ****

Location of the CEU Booth will be announced at the beginning of each session.

REMEMBER:

- * YOU MUST OBTAIN AN EVALUATION FORM FOR EACH SESSION YOU ATTEND.
- * CEUs WILL **ONLY** BE GIVEN IN PERSON.
- * NO CERTIFICATES WILL BE MAILED.
- * CEUs WILL ONLY BE ISSUED DURING CEU DESK HOURS.
- * YOU MUST SIGN THE CEU ROSTER.

ONLINE REGISTRATION NOW AVAILABLE!
See NCASM Website for details

REGISTRATION FORM

Name _____

Employer/Affiliation _____

Mailing Address _____
 ___ Business _____
 ___ Home _____

Telephone (H) _____ (W) _____

Email Address _____ All NCASM correspondence is via email

email –please check here if NCASM can contact you via email

31st Annual NCASM Meeting THERE'S NO PLACE LIKE HOME IN THE MICROBIOME March 7 & 8, 2014

(CIRCLE ONLY ONE AMOUNT BELOW and ENTER AMOUNT ON LINE "A")

	Member (Paid-to-date)	Professional Non-Members	Student* Members (includes NCASM membership)
Both Days	<input type="checkbox"/> \$160	<input type="checkbox"/> \$250	<input type="checkbox"/> \$60
Friday Only	<input type="checkbox"/> \$105	<input type="checkbox"/> \$160	<input type="checkbox"/> \$45
Saturday Only	<input type="checkbox"/> \$105	<input type="checkbox"/> \$160	<input type="checkbox"/> \$45

* Students must submit a copy of a Valid Student I.D. Card with registration form.

Line A \$ _____
Late Fee (postmark after **March 1**) Add \$20 \$ _____
 Non-NCASM Members CEU Fee Add \$25 \$ _____

NCASM Membership

(January - December 2014).....	Regular	\$25	\$ _____
(January—December 2014).....	Student	\$5	\$ _____
Total			\$ _____

ONLINE REGISTRATION NOW AVAILABLE —PLEASE SEE OUR WEBSITE FOR DETAILS:
<http://www.asmbanches.org/brcano/index.html>

I AM A MEMBER OF ASM (CIRCLE ONE) Y / N ASM NO. _____
 CHECK HERE TO HAVE YOUR NAME DELETED FROM COMMERCIAL MAILINGS

Make Checks payable to NCASM (Credit Cards Accepted Online Reg. Only)

*Mail form and checks to NCASM Secretary:
 Katya Polovina
 UCSF Dept. of Microbiology & Immun
 University of California, San Francisco
 400 Parnassus Rm AC-34, Box 1307
 San Francisco, CA 94143*

*For Registration Information, contact:
 Jennifer Kyle, PhD, CLS*

E-mail: kylejennifer@yahoo.com

EMPLOYMENT/DISCIPLINE:
 ACADEMIA INDUSTRY
 CLINICAL
 PUBLIC HEALTH
 OTHER (SPECIFY) _____

I WOULD LIKE TO HELP ON AN NCASM COMMITTEE:
 WEBSITE NEWSLETTER
 PROGRAM AWARDS
 UNDERGRAD STUDENT CHAPTERS
 SCIENCE/EDUCATION