



28th Annual NCASM Spring Meeting  
MARCH 11th & 12th, 2011

## MICROBES 2011: THE ROAD AHEAD



THE CEU COURSE NUMBERS FOR THIS MEETING ARE 11-001 THROUGH 11-007

### OUR SUSTAINING MEMBERS:

#### **PLATINUM:**

ABBOTT MOLECULAR  
BD DIAGNOSTIC SYSTEMS  
BIOMERIEUX  
MARLER CLARK

#### **GOLD:**

ADVANDX  
ANAEROBE SYSTEMS  
MEDICAL CHEMICAL CORPORATION

#### **SILVER:**

SPIRAL BIOTECH / ADVANCED INSTRUMENTS

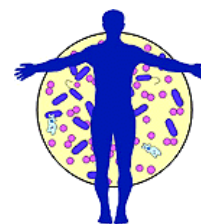
*PLEASE SUPPORT OUR SUSTAINING MEMBERS...Their support helps bring you this meeting!*

ONLINE REGISTRATION NOW AVAILABLE  
PLEASE SEE OUR WEBSITE FOR DETAILS:

<http://www.asm.org/branch/brcano/index.html>



hail! super space bacterial



## FRIDAY - MARCH 11 ★ REGISTRATION, Olympic Ballroom Lobby - from 7:00 AM

### ★SESSION 1: New Directions in Clinical Micro

*Location: Olympic Ballroom –Bronze*

*Convener: Claudia Crandall, CDPH -MDL—Richmond, CA ★*

8:25 - 8:30 **Welcome and Announcement**

8:30 - 9:20 **The Ins & Outs of Gram Positive Pathogen Susceptibility Testing**

*Linda Mann, PhD, D(ABMM), Siemens—W. Sacramento, CA*

Curious about the changes to the CLSI guidelines for gram positives? Dr. Mann straightens the path with a review of emerging resistance issues for this group of pathogens. She will also discuss the role of supplemental testing for special cases.

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

10:10 - 11:00 **A Tale of Two Fungi: *Cryptococcus gattii* & *Coccidioides immitis*.**

*George Thompson, M.D., UC Davis School of Medicine — Davis, CA*

SPONSORED by the CARLYN HALDE MYCOLOGY EDUCATION FUND

Dr. Thompson paves the way to an understanding of the epidemiology and virulence differences among North American *C. gattii* isolates. He will also discuss curious cases of Coccidiomycosis in non-endemic areas.

11:00 - 11:50 **The ASM Clinical Microbiology Taskforce: Who & What's in it For You**

*Ellen Jo Baron, PhD, D(ABMM), Stanford University Medical Center — Stanford, CA*

*Susan Munro, CLS, MT(ASCP) Stanford University Medical Center — Stanford, CA*

Join our speakers Ms. Munro and Dr. Baron for an informative discussion about the recent ASM initiative to enhance the offerings for clinical microbiologists. Come hear about additional services developed to smooth the path for Clinical Microbiologists!

### ★SESSION 2: Molecular Tools in Action

*Location: The Masters Salon*

*Convener: Dorothy Yang, Agilent—Santa Clara, CA ★*

8:25 - 8:30 **Welcome and Announcements**

8:30—9:20 **Detection & Identification of Deep Water Microbes**

*Eric Dubinsky, PhD Lawrence Berkeley National Lab —Berkeley, CA*

In the midst of the 2010 Gulf of Mexico oil spill, we knew that microbes were hard at work breaking down substrates, but how? Join Dr. Dubinsky for an engaging look at the use of new molecular tools used to identify the deep ocean players & determine what role they played below the Deepwater Horizon.

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

10:10 - 11:00 **Mass Spectrometry in the Microbiology Lab**

*Mark Fisher, PhD, ARUP Laboratories - Salt Lake City, UT*

**TRAVEL GRANT PROVIDED BY BD Diagnostics**

Face it, we all know that we are in need of faster ways to ID those microbes reluctant to give up their names. Dr. Fisher will give us a glimpse at the “soon-to-be-in-a-lab-near-you” uses of MALDI-TOF in microbiology. Come along for a tour in the fast lane!

11:00 - 11:50 **Single Molecule Real Time DNA Sequencing and Infectious Diseases**

*Andrew Kasarskis, PhD, Pacific Biosciences — Menlo Park, CA*

How will new genomic technologies enhance the investigation of outbreaks across the globe? Dr. Kasarskis will introduce us to the technology behind SMRT—single molecule real time DNA sequencing. He will shed light on the potential uses of this technology for faster, better molecular epidemiology and detailed measurements of viral heterogeneity.

## LUNCH - EXHIBIT HALL (Olympic Ballroom—Gold & Silver) 11:50 - 1:40

### ★SESSION 3: Clinical Diagnostic Destinations

*Location: Olympic Ballroom –Bronze*

*Convener: Deirdre Pierry, NCASM Past President - Redwood City, CA★*

1:40 - 2:30 **Nucleic Acid Testing for BK Polyoma Virus—Associated Nephropathy**

*Benjamin Pinsky, MD, PhD Stanford University School of Medicine —Stanford, CA*

PVAN, or Polyoma Virus Associated Nephropathy may seem to be an exotic detour from the road of viral illnesses, but don't fret as Dr. Pinsky will steer us to an understanding of the virology of BK virus and it's importance as a pathogen.

2:30 - 3:20 Break: Join Us in the Exhibit Hall—Olympic Ballroom Gold & Silver

3:20 - 4:10 **Rapid Detection of Influenza Virus: An Overview**

*Lou Lee, MS, Cepheid—Sunnyvale, CA*

With the 2009 H1N1 epidemic in the rear-view mirror, what were the lessons learned about influenza and the aspects of it's spread, rapid diagnosis and resistance that need to be addressed for the next time? Dr. Lee will share the rules of the road we learned from 2009.

4:10 - 5:00 **Rapid Detection & ID of *Mycobacteria* spp. with Real Time PCR**

*Niaz Banaei, MD, Stanford University Medical Center - Stanford, CA*

Mycobacteria are important agents of infection in humans. In the past their recovery & ID has been a time consuming process. Dr. Banaei is in the driver's seat for a description of a basic algorithm employing multiplex real-time PCR for rapid detection and identification of clinically important Mycobacteria from clinical specimens.

### ★SESSION 4: Environmental Microbiology

*Location: The Masters Salon*

*Convener: Steven Lindow, UC Berkeley, Berkeley, CA★*

1:40—2:30 **One Man's Garbage: Biodegradable Plastic from Agricultural Waste**

*Larry Hanne, PhD, California State University—Chico, CA*

Did you know that bacteria can be used to make plastic? Dr. Hanne helps us differentiate traditional from biodegradable plastics. He will discuss production methods for biodegradable plastics (PLA) and teach us how to turn agricultural waste into plastic; perhaps the start of true “cradle to cradle” plastic?

2:30 - 3:20 Break - Join Us in the Exhibit Hall—Olympic Ballroom Gold & Silver

3:20 - 4:10 **Life on the Young Earth—an Extremophile's Tale**

*Kenneth Noll, PhD, University of Connecticut — Storrs, CT*

SPONSORED by the ASM BRANCH LECTURESHIPS PROGRAM

What form might life take on other planets? Dr. Noll will introduce us to some of Earth's extremophiles on a guided tour of how microbes can evolve to succeed in extreme niches. This tour also pauses to look at how we could detect “ET” organisms on other worlds.

4:10 - 5:00 **Microbes & The Four Basic Strategies for Life on Earth**

*Felisa Wolfe-Simon, PhD, NASA Fellow at US Geological Survey — Menlo Park, CA*

The concept that all known life is made up of the elements C, H, N, O, P and Sulfur has been recently up-ended by Dr. Wolfe-Simon's description of Mono Lake's arsenic loving GFAJ-1. She joins us to help discern how to look at “life” from a non-traditional viewpoint.

## FRIDAY 5:00 - 6:30 RECEPTION and EXHIBITOR RAFFLE in the EXHIBIT HALL

★SESSION 5: Global Events: Epidemics Horizon to Horizon

Location: Olympic Ballroom –Bronze

Convener: Peter Agron, UC Office of the President, Oakland, CA ★

8:25 - 8:30 Welcome and Announcements

8:30 - 9:20 Carbapenem Resistant *Enterobacteriaceae*— Global to Local

Susan Sharp, PhD,D(ABMM), F(AAM) Kaiser Permanente—Portland, OR

SPONSORED by the MARILYN COWARD FUND

Carbapenemases are the latest challenges for the clinical Micro community. Dr. Sharp will help us navigate these important enzymes with a review of their activity, discussion of their global spread as well as insight into the recent CLSI decision to lower carbapenem breakpoints in their guidelines.

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

10:10 - 11:00 **Pertussis: What's the Status?**

Kathleen Harriman, PhD, MPH, RN CA Department of Public Health—Richmond, CA

A Pertussis resurgence started last summer in California. For many of us, that meant getting a booster shot so that you could visit that friend's new baby. Are we in the clear yet? Dr. Harriman joins us for a check on our facts.

11:00 - 11:50 **Chronic Hepatitis B: Addressing an Epidemic**

Janet Zola, MPH, San Francisco Department of Public Health — San Francisco, CA

Hepatitis B is a known chronic "fellow traveler". What methods will be effective in the fight to combat this illness in the US? Dr. Zola will help us understand the Hep B epidemic & identify the population involved. Once we understand those factors, she will introduce us to the successes of the "Hep B Free" campaign being waged by the SF DPH.

★SESSION 6: Career Forum: What's Next After Graduation?

Location: The Master's Salon

Moderators: Daniel Mills, NCASM Past President—Fremont, CA ★

8:25 - 8:30 Welcome and Announcements

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

10:10 - 11:00 Session continues—The Master's Salon

This 3-hour forum is intended for people interested in beginning careers in microbiology or those seeking career redirection. Laboratory professionals in Clinical, Public Health, Environmental, Biotechnology and Federal Research laboratories will discuss careers in their respective fields. Additionally, microbiologists from two universities will tell us about graduate school & university teaching career opportunities in academia.

The presentations of each area will include information on the availability of jobs, education requirements, salaries, career mobility and other benefits. The focus on each area will include insights from a working professional into the challenges they face daily.



**LUNCH and NCASM Business Meeting 11:50 - 1:00**

Olympic Ballroom –Silver & Bronze

★SESSION 7: All Roads Lead to the Cause: 21st Century Outbreak Issues

Convener: Michele Jay-Russell, NCASM President '09-'11 ★

1:00 - 1:50 **Medical Detectives: Foodborne Disease Surveillance & Outbreak Detection**

Karen Neil, M.D., MSPH, Epidemic Intelligence Service—Centers for Disease Control & Prevention— Atlanta, GA

SPONSORED by the PUBLIC HEALTH EDUCATION FUND

How aware of the burden of foodborne illness are you? Dr. Neil will explain how the Public Health Surveillance monitors and detects outbreaks across the country. She will help us understand the processes and challenges involved in outbreak investigations and examine the role that outbreak investigations play in enhancing food safety.

1:50—2:40 **Laboratory Aspects of Microbial Source Tracking (MST)**

Mansour Samadpour, PhD, IEH Laboratories — Lake Forest Park, WA

Dr. Samadpour and his colleagues pioneered the use of MST for the tracking of bacterial contamination sources. MST can identify the sources of fecal coliforms and map their distribution, transport and movement in aquatic environs. Join us for a tour of the challenges encountered by scientists looking to stop bacterial contamination at the source, before any roadside checkpoints are encountered!

3:10 - 4:00 **Law & Order: How Epidemiological and Laboratory Data Are Used in Food Poisoning Cases**

William Marler, Esq., Marler Clark — Seattle, WA

Now that we know how laboratorians make inroads in the war on outbreaks, it's time to check out what kind of legal and ethical considerations influence the use of data collected during outbreak investigations. Mr. Marler will share case studies he has encountered as a means to give us insight into how the results of our investigations help determine legal case outcomes.



**NCASM Secretary:**  
*Joseph C. Chen, PhD*  
*Department of Biology*  
*San Francisco State University*  
*1600 Holloway Avenue*  
*San Francisco, CA 94132*

**Registration Fees the same as 2010!**  
**ONLINE REGISTRATION!**  
**See NCASM Website for details**



**28th Annual NCASM Meeting MARCH 11th & 12th, 2011**  
**PREREGISTRATION DEADLINE –online or postmarked by March 7th, 2011**

**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 **\$65/night !**

**\*\*\*\*\* Rate cut-off FEBRUARY 28th, 2011 \*\*\*\*\***

**Register for this group rate by asking to book with the NCASM Meeting!**

**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 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 Dr.
- 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 Dr.
- 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 Dr.
- 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 Dr.
- 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 on to Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Dr.

# 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 **Katya Polovina at: kpolovina@yahoo.com**

## Continuing Education

NCASM is an approved provider and accrediting agency (accreditation #0044) for the California Laboratory Continuing Education. All sessions qualify for 0.3 continuing education units (3 contact hours). CEU Certificates of Attendance will be available on-site at the **END of each day**.

## Instructions:

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 for CEU credits for that lecture.**
2. You may attend talks in either concurrent session.  
-Complete an evaluation form for each presentation attended.  
-Each talk is one (1) contact hour. There are three (3) contact hours in each of the sessions.
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. \*\***

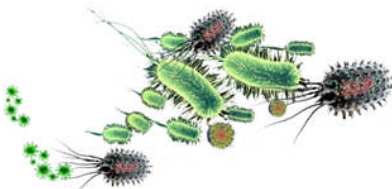
Location of the CEU Booth will be announced at the beginning of each session.

## **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 —PLEASE SEE OUR WEBSITE FOR DETAILS:**

<http://www.asm.org/branch/brcano/index.html>



# REGISTRATION FORM

Name \_\_\_\_\_

Employer/Affiliation \_\_\_\_\_

Mailing Address \_\_\_\_\_  
 \_\_\_ Business \_\_\_\_\_  
 \_\_\_ Home \_\_\_\_\_

Telephone (H) \_\_\_\_\_ (W) \_\_\_\_\_

Email Address \_\_\_\_\_

Preferred Contact method    • regular mail                      • email –please check here if NCASM can contact you via email

## 28th Annual NCASM Meeting MICROBES 2011: THE ROAD AHEAD March 11 & 12, 2011

(CHECK ONLY ONE BOX BELOW and ENTER AMOUNT ON 'TOTAL' LINE )

	<b>Members (Paid-to-date)</b>	<b>Non-Members</b>	<b>Student* Members</b>
Both Days	• \$155	• \$220	• \$55
Friday Only	• \$110	• \$160	• \$40
Saturday Only	• \$110	• \$160	• \$40

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

**Line A** \$ \_\_\_\_\_  
**Late Fee** (postmark after **March 7**) Add \$20 \$ \_\_\_\_\_  
 Non-NCASM Members CEU Fee Add \$25 \$ \_\_\_\_\_

NCASM Membership

(January - December 2011).....Regular \$25 \$ \_\_\_\_\_

(January—December 2011).....Student \$5 \$ \_\_\_\_\_

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

**ONLINE REGISTRATION NOW AVAILABLE —PLEASE SEE OUR WEBSITE FOR DETAILS:**  
<http://www.asm.org/branch/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:*  
*Joseph C. Chen, PhD*  
*Department of Biology*  
*San Francisco State University*  
*1600 Holloway Avenue*  
*San Francisco, CA 94132*

**EMPLOYMENT/DISCIPLINE:**

- ACADEMIA                                      • INDUSTRY
- CLINICAL
- PUBLIC HEALTH
- OTHER (SPECIFY) \_\_\_\_\_

*For Registration Information, contact:*  
*Wendy Wilson, PhD*  
*(510) 512-2231*  
*E-mail: wendy\_wilson\_fujino@yahoo.com*

**I WOULD LIKE TO HELP ON AN NCASM COMMITTEE:**

- WEBSITE                                      • NEWSLETTER
- PROGRAM                                      • AWARDS
- UNDERGRAD STUDENT CHAPTERS
- SCIENCE/EDUCATION