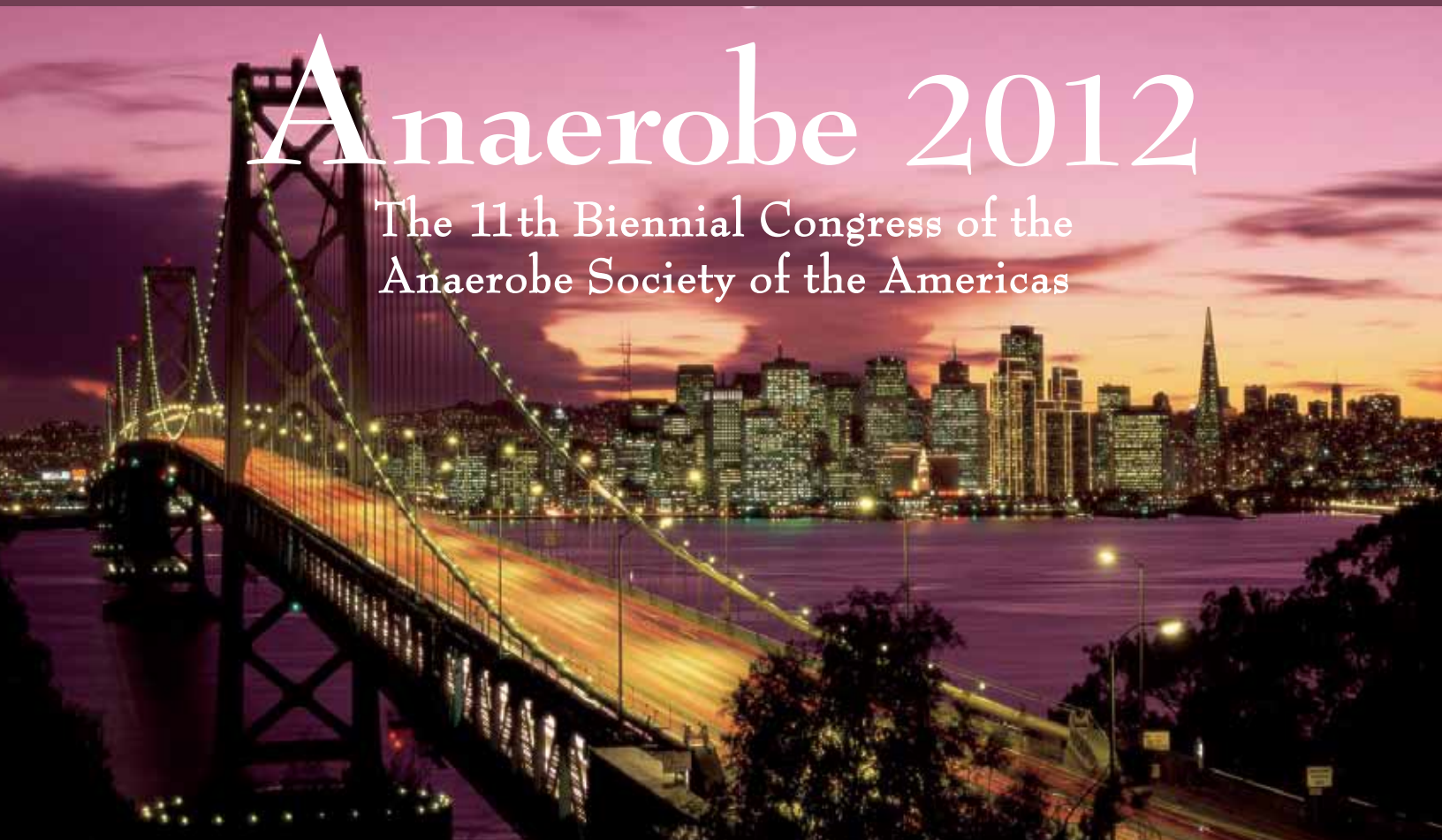


Grand Hyatt ❖ San Francisco, CA USA ❖ June 27–July 1, 2012

Anaerobe 2012

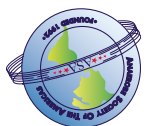
The 11th Biennial Congress of the
Anaerobe Society of the Americas



IMPORTANT DATES

June 1, 2012	Early Registration Deadline
June 18, 2012	Hotel Reservation Deadline
June 27-28, 2012	Advanced Registration Closes
June 27-28, 2012	Pre-Congress Workshops
June 29-July 1, 2012	Congress Opens

Anaerobe Society of the Americas
PO Box 452058
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ACCREDITATION

This activity has been planned and implemented in accordance with the Essentials Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME).

PHYSICIAN ACCREDITATION

No Physician Continuing Education Units will be issued for this Congress. Attendees may request Certificates of Attendance, free of charge, on the Registration Form for pick up, at the conclusion of the Congress.

CLINICAL LABORATORY SCIENTIST ACCREDITATION

Microbiology Educational Services is accredited by the California Department of Health Services to provide continuing education for clinical laboratory scientists.

Microbiology Educational Services designates this educational activity for a maximum of 19 continuing education contact hours upon completion of the program and 14.0 continuing education contact hours upon completion of the workshop. Clinical laboratory scientists should claim only those hours of credit that they actually spent in the educational activity.

ABOUT THE ANAEROBE SOCIETY

Founded in 1992, the Anaerobe Society of the Americas is a non-profit foundation (Tax ID # 95-4388236), serving as a forum for those interested in anaerobes, anaerobic infections, and related matters. Membership is available to anyone with an interest in the field of anaerobes. Membership includes a subscription to the *ANAEROBE* journal, the ASA newsletter, the ASA E-mail Network, and discount registration for the ASA Congress.

Non-attending ASA members also will receive a copy of the *Anaerobe 2012 Abstract Book*.

Annual dues are on a variable scale in the categories of Doctoral, Non-doctoral, and Students, based on choice of *Anaerobe* journal access and duration. Membership can be obtained at the Anaerobe website: www.anaerobe.org.

For additional information about the Anaerobe Society or Anaerobe 2012

Web: www.anaerobe.org ❖ E-mail: asa@anaerobe.org ❖ Phone: +310-216-9265

ABOUT THE CONGRESS

The Anaerobe Society of the Americas (ASA) hosts its 11th biennial Congress—*Anaerobe 2012*—June 27–July 1, 2012 in San Francisco, CA USA. This event provides a forum for vigorous discussions of both the clinical and microbiological aspects of anaerobic infections, their diagnosis, and their therapy among medical practitioners and researchers by mixing theory and practical applications. The Congress will consist of invited speakers, oral presentations, and poster presentations, representing work by researchers in 28 countries.

The Congress will consist of:

- Pre-Congress Workshop—June 27–28, Santa Clara, CA
- Oral Presentations
- Poster Presentations
- Student Presentation Competition
- Industry Exhibitions
- Congress Banquet & Social Events

TARGET AUDIENCE

Healthcare professionals and researchers in academia, government, and industry from around the world are invited to attend and participate in this Congress to engage in presentations, exchanges, and dialogue on issues related to the study of anaerobes.

- Microbiologists and Laboratory Scientists
- Infectious Disease Physicians
- Gastroenterologists

- Gynecologists
- Pathologists
- Dentists
- Epidemiologists and Infection Control Practitioners
- Pharmacists
- Nurses
- Public Health Officials
- Veterinarians
- Agricultural Scientists
- Post-Doctoral Fellows
- Students

The Pre-Congress Workshop on *Anaerobic Identification and Susceptibility Testing Methods* is targeted to clinical microbiology technologists (see below).

CURRICULAR GOALS & OBJECTIVES

Provide information on the latest developments in the field of anaerobic research, including the role of anaerobes in human diseases, the epidemiology of anaerobic infections, and potential prevention strategies.

Provide recommendations in the diagnosis, screening, and treatment of anaerobic infections, including new laboratory techniques, utilization of antibiotics, and potential of probiotics.

Provide an understanding for better utilization of the microbiology lab into the delivery of patient care.

PRE-CONGRESS WORKSHOP

ANAEROBIC IDENTIFICATION AND SUSCEPTIBILITY TESTING METHODS WORKSHOP

The *Pre-Congress Anaerobic Identification and Susceptibility Testing Workshop* will be conducted June 27–28, 2012 on the campus of Santa Clara University in Santa Clara, CA. This 2-day course will consist of lecture and hands-on experience, covering both classical and advanced methods for identification and susceptibility testing of anaerobic bacteriology.

On the first day, **Classical Techniques** for identifying anaerobes based on phenotypic characteristics will be presented by Diane Citron and Mike Cox. These methods will include appearance on gram-stain, growth on selective media, susceptibility to special potency antibiotic disks, preformed enzyme reactions, and classical biochemical reactions. The *Anaerobe Educator* software program will be used to present test reactions and to allow for active audience participation in the identification of organisms. Susceptibility testing methods include agar dilution, broth microdilution, and Etest.

On the second day, advanced methods to identify isolates will be explored:

MALDI-TOF Mass Spectrometry will be presented by Dr. Elisabeth Nagy, with demonstrations of some of the current technology being developed. The discussion will include limitations of the current databases and progress in their development.

16S rDNA Sequencing will be presented by Kerin Tyrrell, with discussion on the benefits and pitfalls of working with GenBank, a non-curated database. Emphasis will be placed on how to review BLAST results and choose the correct identification,

not necessarily the first item on the listing. Attendees will have hands-on computer experience using GenBank and BLAST to identify challenging sequences that will be provided in the workshop. Assessment of the BLAST result listing, linking out from the result listing to individual deposit information, and recognizing various problems that can arise with some sequence deposits will be discussed.

Culture Independent Methods will be presented by Dr. Georg Conrads to investigate the mixed flora present in oral and other invasive infections.

Pyrosequencing will be presented by Laurie Cox and discussed with regard to culture independent determinations of the fecal microbiome, in light of studies that have shown conditions—such as obesity, Crohn's disease, and autism—are linked to altered microbiome populations.

Registration Fee: \$240 — Limited to 55 participants, registration includes course, continental breakfasts, breaks, Wednesday night dinner, and bus transportation to *Anaerobe 2012* hotel on Thursday night for Congress registrants. Registrants will be responsible for lunch each day. Each student also will receive a copy of the *Anaerobe Educator*.

CEU Accreditation: This workshop is accredited for 14 continuing education contact hours for clinical laboratory scientists by Microbiology Educational Services.



PROGRAM

WEDNESDAY-THURSDAY JUNE 27-28

- 0900-1700 **ANAEROBE IDENTIFICATION SUSCEPTIBILITY WORKSHOP AT SANTA CLARA UNIVERSITY**
Diane M. Citron, Georg Conrads, Ph.D.
Laurie Cox, Mike Cox, Elizabeth Nagy, M.D.
Tracy Ruscetti, Ph.D., Kerin L. Tyrrell

THURSDAY JUNE 28

- 0900-1700 **CONGRESS REGISTRATION OPENS**

FRIDAY JUNE 29

- 0700 **REGISTRATION / BREAKFAST / EXHIBITS**
- 0830-0840 **WELCOME**
Cynthia L. Sears, M.D., President, ASA
- 0840-0940 **KEYNOTE ADDRESS**
 Systemic Analysis of Human-Associated Microbes: Lessons from a Tiny Bacterium and a Large Community
Peer Bork, Ph.D.
- 0940-0955 **DISCUSSION**
- 0955-1015 **BREAK / EXHIBITS**
- 1015-1145 **GASTROINTESTINAL MICROBIOTA & DISEASE**
Moderator: Cynthia L. Sears, M.D.
 The Microbiota & Inflammatory Bowel Disease: Clinical Aspects
Judy Cho, M.D.
 The Microbiota & Inflammatory Bowel Disease: Insights from Disease Models
Deanna Nguyen, M.D.
Fusobacterium & Its Association with Colon Cancer
Robert A. Holt, Ph.D.
- 1145-1315 **LUNCH / EXHIBITS / COMMITTEE MEETINGS STUDENT COMPETITION PRESENTATIONS**
Moderator: David M. Aronoff, M.D.
- 1315-1345 **STATE-OF-THE-ART LECTURE I**
 Cultivating the Uncultivable: How Can We Make Progress?
Slava Epstein, Ph.D.
- 1345-1445 **ORAL MICROBIOTA & DISEASE**
Moderator: Purnima S. Kumar, D.D.S.
 Oral Microbiota & Emerging Disease Associations
Emmanuel Mongodin, Ph.D.
 The Links Between the Oral Microbiota & Pulmonary Disease
Frank Scannapieco, M.D.
- 1445-1545 **POSTER SESSION I / EXHIBITS**
- 1545-1635 **ORAL PRESENTATIONS: MICROBIOTA IN HEALTH & DISEASE**
Moderator: Sydney M. Finegold, M.D.

Identification & Characterization of Bacterial Biofilms of Sporadic Colorectal Cancer

Christine Dejea

Isolation of Novel, Non-*Bacteroides fragilis* Strains Containing the *Bacteroides fragilis* Toxin (*bft*) Locus from Colorectal Cancer Patients

Andrew Goodwin, Ph.D.

Human Intestinal Microbial Ecologies of Indigenous Communities

Paul Lawson, Ph.D.

Gut Microbiota in Obesity: Preliminary Results

Gayane Martirosian, M.D., Ph.D.

1635-1735 SCIENTIFIC FORUM

What's Hot in the Anaerobic Literature?

Bennett Lorber, M.D.

Carl Erik Nord, M.D.

1735-1800 ANAEROBE SOCIETY MEMBERSHIP MEETING

1800-1900 WINE & CHEESE RECEPTION

SATURDAY JUNE 30

0700 REGISTRATION / BREAKFAST / EXHIBITS

0800-0845 STATE-OF-THE-ART LECTURE II

Vaginal Health: Ecology & Disease

Jeanne Marrazzo, M.D.

0845-0945 POSTER SESSION II / EXHIBITS

0945-1045 THE GENITAL MICROBIOTA

Moderator: David Fredricks, M.D.

Clostridium Vaginal Infections

Brandi Limbago, Ph.D.

Anaerobes in Pelvic Inflammatory Disease: An Update

Sharon Hillier, Ph.D.

1045-1100 DISCUSSION

1100-1145 STATE-OF-THE-ART LECTURE III

Fidaxomicin & New Agents in the Treatment of *Clostridium difficile* Recurrences

Thomas J. Louie, M.D.

1145-1200 DISCUSSION

1200-1315 LUNCH / EXHIBITS

ANAEROBE JOURNAL AUTHORSHIP WORKSHOP

1315-1445 CLOSTRIDIUM DIFFICILE: PATHOGENESIS, EPIDEMIOLOGY & THERAPY

Moderators: Dale N. Gerding, M.D.

Development of a Murine Infection Model to Understand *Clostridium difficile* Disease and Transmission

Trevor D. Lawley, Ph.D.

Community-Associated *Clostridium difficile*: How Real Is It?

Fernanda Lessa, M.D., M.P.H.

Point-Counterpoint: *Clostridium difficile*: Is it a Food-borne Disease?

Jane Marsh, Ph.D.

J. Glenn Songer, Ph.D.

1455-1500 **BREAK**

1500-1630 **ORAL PRESENTATIONS:
CLOSTRIDIUM DIFFICILE**

Moderators: Stuart Johnson, M.D.

The Changing Faces of *Clostridium difficile*: A Personal Reflection of the Past 34 Years

Ian Poxton, Ph.D.

Colonization Resistance: Interactions between *Clostridium difficile* and the Indigenous Gut Microbiota

Vincent B. Young, M.D., Ph.D.

Epidemiology of Community-Associated *Clostridium difficile* Infection (CA-CDI): Emerging Infections Program, 2009-2011

Amit Chitnis, M.D.

The Importance of Toxin A in Virulence of an Epidemic *Clostridium difficile* Strain

Sarah Kuehne, Ph.D.

Phenotypic Characterization of *Clostridium difficile* Clinical Isolates

Paul E. Carlson, Jr., Ph.D.

Severe *Clostridium difficile* Associated Diarrhea: Impact of High Dose Vancomycin Therapy

Marina Claros, Ph.D.

1615-1730 **CLINICAL FORUM**

Unknown Cases

Gonzalo Ballon-Landa, M.D.

Ellen Jo Baron, Ph.D.

Ellie J.C. Goldstein, M.D.

1800 **CONGRESS BANQUET RECEPTION:
NIEMAN-MARCUS**

1900 **CONGRESS BANQUET**

0905-0915 **DISCUSSION**

0915-1000 **POSTER SESSION III / EXHIBITS**

1000-1110 **OTHER CLOSTRIDIAL INFECTIONS**

Moderator: Dennis L. Stevens, M.D., Ph.D.

Botulism: New Aspects

Steve S. Arnon, M.D.

Clostridium spp.: Mechanisms of Disease

David M. Aronoff, M.D.

1110-1200 **ORAL PRESENTATIONS: CLOSTRIDIUM SPP.**

Moderator: Glenn Songer, Ph.D.

Recent Progress in Understanding the Action of *Clostridium perfringens* Enterotoxin

Bruce McClane, Ph.D.

Evidence that the agr Quorum Sensing System is a Regulator of *Clostridium perfringens* Toxin Production and Virulence

Jianming Chen, Ph.D.

Highly Sensitive Cell Model for Botulinum Neurotoxin Detection Using Human Neurons from Induced Pluripotent Stem Cells

Eric Johnson, M.D.

Phenotype Microarrays and Cytotoxicity-Based Clostridial Toxin Assay

Xiang Lei, Ph.D.

1200-1315 **LUNCH / EXHIBITS**

1315-1445 **PROBIOTICS: MECHANISMS
& HEALTH BENEFITS**

Moderator: Andrew B. Onderdonk, Ph.D.

Probiotics in Vaginal Infection Prevention

Raina N. Fichorova, M.D.

Antibiotic-Associated Diarrhea: Are Probiotics the Answer?

Mark Wilks, M.D.

Regulation: How Will Probiotics Make It to the Consumer

Marika Mikelsaar, M.D.

1445-1545 **ORAL PRESENTATIONS**

Moderator: Bennett Lorber, M.D.

Geographic Signatures of Anaerobes to Study Human-Microbe Co-Migration & Co-Evolution

Georg Conrads, Ph.D.

Polysaccharide Biosynthesis Loci Diversity Amongst *Bacteroides fragilis* Isolates

Sheila Patrick, Ph.D., D.Sc.

A Unique Homologue of Eukaryotic Ubiquitin Produced by *Bacteroides fragilis* with the Potential for Significant Host Interaction

Kelly Jobling

Effect of Antiretroviral Treatment on Selected Gut Microbiota in South African HIV Positive Patients

Valerie R. Abratt, Ph.D.

Gut Microbiota in Preterm Infants Throughout the First Year of Life

Marie-Jose Butel, Pharm.D., Ph.D.

1500-1515 **DISCUSSION & CLOSING REMARKS**

Cynthia L. Sears, M.D.



SUNDAY JULY 1, 2012

0730 **REGISTRATION / BREAKFAST / EXHIBITS**

0815-0905 **STATE-OF-THE-ART LECTURE IV**

Anaerobic Diagnostic Microbiology: *Clostridium difficile* & Beyond

Diane Citron

Is MALDI-TOF MS Superior to Commercially Available Identification Kits for Identification of Anaerobic Bacteria in Routine Laboratories?

Elisabeth Nagy, M.D., Ph.D., D.Sc.

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CONGRESS INFORMATION

THE SETTING

ANAEROBE 2012 takes place in America's favorite city by the bay. San Francisco is the home to a little bit of everything, a feast for all the senses. From its sweeping vistas to its culinary delights, it offers a tapestry of cultural diversity.

Within walking distance from the Congress hotel is Chinatown, the Museum district, the Financial district, and the Cable Car going over the hill to Fisherman's Wharf. For shopping, you will be surrounded with options, from the major department stores to boutiques, from art galleries to the discount outlets. Or for a little baseball, slip on over to AT&T Park to watch the San Francisco Giants host the Los Angeles Dodgers (June 25-27) and the Cincinnati Reds (June 28-July 1). And with a short drive, you can find yourself surrounded by ancient Redwoods or tasting the fruit of the vine in Wine Country (Napa/Sonoma).

For more information about San Francisco, visit the web site: www.welcometosf.com.

ACCOMMODATIONS

The Congress hotel is the **Grand Hyatt San Francisco**, located at 345 Stockton Street, just off the city's famed Union Square. This luxury hotel has just undergone a major renovation, with guest rooms featuring the most avant-garde amenities. The Grandviews Restaurant and Lounge on the 36th Floor offers stunning views of the city and across the bay. For information on the hotel, visit the web site: www.grandsanfrancisco.hyatt.com or call: (415) 398-1234.

Rooms are available for Congress delegates at an amazing discount room rate of \$149 + tax per night. The deadline for room reservations booked on-line is June 7, 2012. The Congress discount is available at the web site: <https://resweb.passkey.com/go/FINE>, or (888) 421-1442, using the Group Code: *g-finf*, or link directly from the Anaerobe Society website.

Students might consider the Hostelling International-Downtown (www.hihostels.com) or USA Hostels (www.usahostels.com). There are also a number of low budget hotels around Union Square, which cater to students (Park Hotel, Herbert Hotel, Touchstone Hotel, Grant Hotel). Check the internet for reviews and information.

Hotel accommodations for attendees of the **Pre-Congress Workshop** will be in San Jose, CA. Hotel reservation instructions will be forwarded to Workshop registrants with registration confirmation. Hotel rates are \$149 + tax, including transportation from hotel to university. **Important: Workshop registrants should not make reservations at the Grand Hyatt for these nights.**

SOCIAL EVENTS

Wine & Cheese Reception (Friday, June 29)—Congress participants and spouses are invited to socialize at the *Wine & Cheese Reception*, following the *ASA Organizational Meeting*.

Congress Banquet (Saturday, June 30)—The Congress Banquet will be held in The Rotunda at Nieman-Marcus department store. Only steps from the Congress hotel, the restaurant is set beneath the landmark stained-glass dome and overlooks Union Square.

The evening will include a reception with hors d'oeuvres to socialize and a dinner. Over dessert, Congress awards will be presented, including *The Finegold Award for Best Abstract* and the *Young Investigator's Awards*. In addition, *Lifetime Achievement Awards* will be presented to Dr. Elisabeth Nagy and Dr. Ian Poxton.

TRANSPORTATION

Air Travel: San Francisco Bay Area is served by three airports. Attendees of the Anaerobe Workshops at Santa Clara University should fly into San Jose Airport (SJI) or San Francisco Airport (SFO). Congress-only attendees can fly into San Francisco Airport (SFO) or Oakland Airport (OAK).

United Airlines and its Star Alliance members United Express, Continental, Continental Express, Luftansa, and All Nippon Airways are offering up to 10% discounts on airfares, valid for travel June 22-July 6, 2012. Reservations can be made through a travel agent or by calling the United Airlines Convention Desk at (800) 521-4041. Use Meeting ID Code 587LN.

Transportation: Airport transportation options will be provided in the Information Packet, to be emailed in early June.



REGISTRATION INFORMATION

You can register for **Anaerobe 2012** at the web site—www.anaerobe.org or use the Registration Form on the back page. Registration fees, as stated on the form, must be paid in U.S. dollars. Discounts are offered to Members of the Anaerobe Society of the Americas, students (with submission of current identification), and for pre-registration received by June 1, 2012.

Congress Registration includes Delegate Packet, Abstract Book, admission to Congress sessions and poster areas, continental breakfasts, coffee breaks, and Thursday evening reception. Full registration also includes the Congress Banquet on Friday evening in The Rotunda at Nieman-Marcus. Additional dinner tickets may be purchased separately.

Confirmation packets will be sent out in mid-June. No advance registrations will be accepted after June 18, 2012. Registration fees at the door must be paid in cash (U.S. Dollars).

3 WAYS TO REGISTER

On-Line: You can register for **Anaerobe 2012** via the Internet, using a credit card, at our web site: www.anaerobe.org by June 18, 2012.

By Fax: Registration forms, with credit card information can be faxed to: +310-216-9274 by June 18, 2012.

By Mail: Registration forms, with credit card information or checks, can be mailed (and received by June 18, 2010) to:

Anaerobe Society of the Americas
P.O. Box 452058
Los Angeles, CA 90045 USA

CANCELLATION POLICY

Congress registration and banquet fees will be refunded (minus \$20 service fee) if written notification is received by June 18, 2012.

