Newsletter

Volume 36 No. 9



SEPTEMBER 2014 NEWSLETTER TOPICS

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September Seminar Meeting Sequence-based Exploration of Microbial Communities

Abstract:

Microbial communities are critical to biogeochemical cycling in all parts of the biosphere as well as plant and animal health, but are difficult to study due to their complexity and our inability to culture most organisms. DNA sequencing is a

valuable tool for characterizing microbial community membership and functional potential, and the dramatic increases in sequencing capacity that have come with next-generation technologies allow us to explore these communities at unprecedented depth. I will discuss the history of metage-

Connect with Chemists

Meet fellow, local chemists for an early morning coffee Look for Ean at a table with CH4 and CO2 molecular models

Tuesday, September 16 at 7 a.m. Specialty's Cafe 3399 Bowers Avenue, Santa Clara Thursday, September 18 at 7 a.m. La Boulange 151 University Avenue, Palo Alto

Chair's Message

I have been running Connect with Chemists (CwC) for over 6 months now. As you may have read in previous newsletters, CwC is where chemists meet over coffee and tea in the morning before work to discuss anything that comes up. I have scheduled these meetings on

different days of the month in the morning for those members who cannot attend the seminars and dinners in the evening. Many of the members who come are unemployed or looking for a different job. All of these members were looking for positions in the local area because they have ties keeping them here. Restricting a search to local positions means that many fewer positions are available for

which to apply.

The ACS devotes considerable resources towards helping members find jobs. If you went to the National Meeting in San Francisco (which is free for unemployed members), you might have attended the ACS Career

Navigator (www.acs.org/content/acs/ en/meetings/fall-2014/career-development. *html*) where you could participate in career development workshops, classes and the career fair. The fair provides registrants with the opportunity to have people review applications and resumes, meet employers, get personal career counseling, and more.

The ACS also offers help on a national continued on next page



nomics and its applications to environmental, host-associated and engineered microbial communities of importance to industry, agriculture, climate and medicine.

Biography:

Dr. Tringe is head of the Metagenome Program at the Department of Energy Joint Genome

Institute, where she oversees research using DNA sequence data to study communities of microbes from diverse environmental niches. Her major research interests relate to microbial influences on greenhouse gas uptake and

continued on next page

September Seminar Meeting

Date:	Thursday, September 25, 2014			
Time:	6:00 p.m. Social Hour			
	7:00 p.m. Dinner			
	8:00 p.m. Presentation			
Speakers: Dr. Susan Tringe				
	DOE Joint Genome Institute			
	Sequence-based Exploration of			
	Microbial Communities			
Locatio	n: Biltmore Hotel & Suites			
	2151 Laurelwood Boulevard			
	Santa Clara, CA			
Cost:	\$26.00, Teriyaki Steak or			
	Pasta Primavera			

Reservations: www.scvacs.org or Sally Peters 650-854-4614

Reservations should be made by Monday. September 22nd stating your name, address, company/school affiliation, number of people in party. Watch the web site for more information. If you are unable to honor your reservation, please cancel by Wednesday, September 24th.

September Seminar, continued from front page

release in wetlands and how microbes interact with plants to affect growth, health and disease resistance.

Dr. Tringe received her undergraduate degree in Physics from Harvard University then went on to a Ph.D. in Biophysics from Stanford University. From there she spent a few years in a yeast genetics lab at the University of New Mexico before joining Dr. Edward Rubin's group at Berkeley Lab as a

Chair's Message, continued from front page

scale (*www.acs.org/content/acs/en/careers. html*) by offering professional development and leadership classes, career services, and job market research. For local searches, they have an interactive map with job locations (*http:// chemistryjobs.acs.org/jobs/explore*). As of August 11, 2014, there are 179 jobs listed for California. Unfortunately, you cannot limit your search to the Bay Area. However, you can further refine your search with job function, type (i.e., full-time, part-time, contract, postdoc in 2003. There she developed techniques for using DNA sequence data for comparative analysis of whole microbial communities, rather than individual organisms, a field now known as metagenomics. In 2011, she was awarded an Early Career Research grant from the Department of Energy to study microbial communities in wetlands and the potential for wetland restoration to serve as an effective carbon sink.

fellowship) or level of experience.

Despite all these resources, chemists can still have a difficult time finding positions. I think the local section may be able to help. I am looking for people to help us help our members. I would like to convene a task force to work on this issue. Would you like to participate? Send me an email at ewarren@scvacs.org.

Connect with Chemists for September will be on Tuesday, September 16 at 7 a.m. at Specialty's Cafe, Santa Clara and Thursday,



September 18 at 7 a.m. at La Boulange, Palo Alto. Look for me there – I'll have molecular models of methane and carbon dioxide in front of me.

Welcome to the Santa Clara Valley Section of ACS

Each month the section receives a spreadsheet from national ACS with the names of members new to our section. The members are either new to ACS, have transferred in from other areas, or are the newest members -- students. To welcome you to the section and get to know you, the Executive Committee offers new members a free dinner! To encourage you to attend a monthly section seminar meeting, we would like you to be our guest. When you register, make certain to mention that you are a new member and you and a spouse (or friend) will be our guests. The seminar meetings are often the 3rd Thursday of the month at a local spot, somewhat convenient to the entire section. If you are unable to attend in the evening, perhaps you would join us for an outreach event, like judging a science fair, participating in the Chemistry Olympiad, or a National Chemistry Week event in October. Then, there is our annual wine tasting and awards picnic in July. The local section is a volunteer organization. Please attend an event, volunteer to help, and get to know your local fellow chemists. Welcome!

James Archbell Kaitlyn Baab James Barry Danial Beaudry Borislava Bekker Oren Berger Lars Boettger Dr. Stephen Carroll Brian Chang Xi-Jun Chen Jawahar Chigurupati Andrei Chtchemelinine Evan Cohen Alexander Colbert Paul Vincnt Contreras Dr. Nick Cox Dr. Lina Cui Sneha Dugar Dr. Joshua R. Dunetz Jacob Greenberg Englander Dr. Edgar G. Estupinan Justin A. Fisher Courtney Fox Michael Ghebreab Dr. Dipankar Ghosh Jingli Hu Niveen Ismail

New Members for August

Dr. Gunilla B. Jacobson Dr. Gavin O. Jones Dr. Velvet Journigan Mallory Kato Dr. Yong-Jae Kim **Emily Kong** Anna Koster Jae Kvoo Lee Hailian Li Dr. Wen Li Miss Winnie Liang Diana Lin Dr. Yue Iulie Liu Alicia Luhrs Nikhil Malkani Sueann L. Mazer Sarah Karen McKee Dr. Mukund M. Mehrotra William Mitch Dr. Michael Morelli Chris Murphy Kashi Nath Mary Noe Ayako Ohoka Kanwal Palla Axel Palmstrom Lauren Porter

Tyler P. Price Baixin Qian Scott Savage Michael V. Schaefer **Richard Schneeberger** Stephanie Shaw Dr. Bernard G. Sheldon Oi Shen Dr. Tatiana Y. Shvareva Dr. David A. Siler Navid Singhrao Jack Leider Sloane Paige Solomon Dr. Robert Street Jennifer Tang John W.F. To Chad Townsend Benjamin Ueng Anna Wagner Dr. Peter Wagner Louise Wallace Arif Wibowo Mengling Wong Nicholas Wong Weiwei Wu Michiharu Yamamoto Dr. Xiongwei Yan

Councilor's Update From the 248th ACS Meeting

By Ean Warren

The 248th Fall ACS Meeting in San Francisco went smoothly last month. Attendance was high, symposia were especially good, the exhibition was well attended, and the weather was, well, typical for San Francisco! **Council Election Results**

- The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the Committee on Committees beginning in 2015: Spiro D. Alexandratos, Mark A. Benvenuto, Mitchell R.M. Bruce, Judith N. Currano, Jetty L. Duffy-Matzner, Kathleen Gibboney, Helen A. (Bonnie) Lawlor, Zaida Morales-Martinez, Robert A. Pribush, and Patricia A. Redden. By electronic ballot, the Council elected Mitchell R.M. Bruce, Judith N. Currano, Helen A. (Bonnie) Lawlor, Zaida Morales-Martinez, and Robert A. Pribush for the 2015-2017 term.
- The Committee on Nominations and Elections presented to the Council the following slate of candidates for membership on the Council Policy Committee beginning in 2015: Lawrence Barton, Dwight W. Chasar, Lynne P. Greenblatt, Martha G.

Hollomon, Peter C. Jurs, Pamela D. Kistler, Doris I. Lewis, Christopher Masi, Andrea Twiss-Brooks, and Linette M. Watkins. By electronic ballot, the Council elected Lawrence Barton, Lynne P. Greenblatt, Peter C. Jurs, and Linette M. Watkins, for the 2015-2017 term, and Andrea Twiss-Brooks for the remainder of a 2014-2016 term.

 The Council Policy Committee presented to the Council the following slate of candidates for membership on the Committee on Nominations and Elections beginning in 2015: Anthony W. Addison, John W. Finley, Lydia E.M. Hines, Roland F. Hirsch, Robert L. Lichter, Mamie W. Moy, Anne T. O'Brien, Eleanor D. Siebert, Herbert B. Silber, and Ralph A. Wheeler. By electronic ballot, the Council elected Lydia E.M. Hines, Robert L. Lichter, Mamie W. Moy, Anne T. O'Brien, and Eleanor D. Siebert for the 2015-2017 term.

Nominations and Elections (N&E)

N&E announced the candidates for the fall 2014 ACS national election as follows: *Candidates for President-Elect, 2015*

• Peter K. Dorhout, Dean of Arts & Sciences

and Professor of Chemistry, Kansas State University, Manhattan, KS

- *William A. Lester, Jr.*, Professor of the Graduate School, Department of Chemistry, University of California, Berkeley, CA
- *Donna J. Nelson*, Professor, Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK

Candidates for Directors-at-Large, 2015-2017

- Dawn A. Brooks, Director, Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN
- *William F. Carroll, Jr.*, Vice-President, Occidental Chemical Corporation, Dallas, TX
- *Barbara A. Saurey*, Associate Vice Chancellor, Academic Affairs, and Dean of Undergraduate Education, University of California, San Diego, La Jolla, CA
- *Ellen B. Stechel*, Deputy Director, ASU-LightWorks, Tempe, AZ, Arizona State University

Candidates for District VI Director, 2015-2017

- *Paul W. Jagodzinski*, Dean, College of Engineering, Forestry & Natural Sciences, Northern Arizona University, Flagstaff, AZ
- Lee H. Latimer, Consultant, Oakland, CA
 *

CHEMPLOYMENT ABSTRACTS SEPTEMBER 2014 For a complete list of current abstracts, please visit: www.scvacs.org/Local_Folder/abstract.htm

CHEMPLOYMENT ABSTRACT 3969

Position Title: Research Associate/Senior Research Associate

Job Description: Genentech is seeking a Research Associate/Senior Research Associate to support drug discovery and development in the Small Molecule Discovery Chemistry department. Incumbent will join a high energy team that is responsible for all aspects of small molecule analysis from routine analyses using LCMS and 1H NMR to detailed structural analysis using high resolution accurate mass LCMS.

QUALIFICATIONS DESIRED:

Education: B.S. or M.S. degree in Chemistry

Experience: Candidates must have at least 2 years' experience in the pharmaceutical industry. Candidates must have good theoretical knowledge of analytical chemistry, hands-on experience in LCMS and other analytical techniques (NMR, GCMS, Ion Chromatography, Karl Fischer, DSC, TGA) as well as excellent computer and analytical instrumentation skills

LOCATION, SALARY, EMPLOYER:

Job Location: South San Francisco, CA

Salary: DOE

Employer Description: For more than 30 years, Genentech has been at the forefront of the biotechnology industry, using innovative science to develop breakthrough medicines that improve the lives of people with serious or life-threatening diseases.

Application Instructions: Join us as we continue to tackle medicine's most challenging problems and live a life inspired. To apply visit gene.com/careers/find-a-job and search job # 432904.

Chemistry Quiz

What is the only letter of the alphabet that does not appear in the periodic table?

*

In 1934, this professor emigrated to work at Stanford University. His work on "the development of new ways and methods for nuclear magnetic precision measurements" earned him the 1952 Nobel Prize, shared with Edward Mills Purcell.

– Felix Bloch

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2014 Sect	ion Officers			
Chair	Ean Warren	650-329-4554	ewarren@scvacs.org	
Chair Elect	Ashley Piekarski	408-855-5269	ashley@scvacs.org	Sep 16
Past Chair	Peter Rusch	650-961-8120	pfrusch@aol.com	
Secretary	Karl Marhenke	831-688-4959	karlmar@armory.com	Sep 18
Treasurer	Ihab Darwish	650-594-1654	darwishis@yahoo.com	5.00 10
Councilors				
2012-2014	Abby Kennedy	209-640-2005	akennedycali2007@yahoo.com	Sep 25
2012-2014	Ean Warren	650-329-4554	ewarren@scvacs.org	
2013-2015	Linda Brunauer	408-554-6947	lbrunauer@scu.edu	
2013-2015	Sally Peters	650-854-4614	sallybrownpeters@gmail.com	
2013-2015	Peter Rusch	650-961-8120	pfrusch@aol.com	
2014-2016	George Lechner	408-226-7262	glechner@aol.com	Oct 4
2014-2016	Herb Silber	408-924-4954	hbsilber@science.sjsu.edu	0001
Alternate Councilors				
2012-2014	David Parker	408-615-4961	drdrparker@comcast.net	www.bayar
2014-2014	Howard Peters	408-854-4614	peters4pa@sbcglobal.net	Oct 10
2014-2014	Ashley Piekarski	408-855-5269	ashley@scvacs.org	0010
2013-2015	Stephanie Bachmann	408-429-9681	s_gehling@hotmail.com	
2013-2015	Lois Durham	650-322-3507	ldurham9398@gmail.com	
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ChemPloyment Abstracts				
Director:		Liang Cao	liang.cao@aol.com	

FUTURE MEETINGS

Sep 16	Connect with Chemists Specialty's Cafe, Santa Clara
Sep 18	Connect with Chemists La Boulange, Palo Alto
Sep 25	September Seminar and Dinner Dr. Susannah Tringe DOE Joint Genome Institute Biltmore Hotel & Suites Santa Clara, CA
Oct 4 mu bavareascience	CuriOdyssey's Lift Off Festival Coyote Point Recreation Center San Mateo, CA corg/calendar/index.php?eID=13000
Oct 10	29th Annual Johnson Symposium Department of Chemistry Stanford University https://chemistry.stanford.edu/story/ annual-william-s-johnson-symposium
Oct 11	Teach the Teachers Workshop Juanita Ryan and RAFT Mission College, Santa Clara, CA