

SCALACS

November/December 2019

A Joint Publication of the Southern California and San Gorgonio Sections of the American Chemical Society

Southern California Section



Announcing the 2019
Agnes Ann Green Award Recipient for
Distinguished Service to the Section:
Veronica Jaramillo

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Annual Meeting and 70th Anniversary
Celebration Finale
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ACS President
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SCALACS

A Joint Publication of the Southern California and San Gorgonio Sections of the American Chemical Society

Volume LXXIV November/December 2019 Number 7

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Chair's Message

Hello Fellow Members of the SCALACS

This is my last report as Chair for 2019 and I take the opportunity to wish you all a very happy holiday season ahead and for the upcoming New Year. We had a really busy schedule in 2019 with a number of events organized through the coordinated efforts of all our Executive Committee Members and my sincere thanks to all of

them. We had the Tolman Award presentation on May 20th in San Diego to Prof. Clifford Kubiak, the Undergraduate Research Conference on April 13th at Mount Saint Mary's University, the Senior Chemists Luncheon on September 14th, Earth Day celebration at California Science Center on April 22, and the High School Chemistry Olympiad on April 27th/award presentations on May 17th. In addition, the ACS Fall meeting was held in San Diego during August 25-29, in which some of our Executive Committee Members participated. The Agnes Ann Green Award presentation is still to come during the second half of November this year.

During this year, we have established collaborations with the Los Angeles Unified School District (LAUSD) and the Science History Institute, Philadelphia, PA. We organized five seminars, one of them by Syft Technologies of New Zealand on February 22nd, a scintillating seminar on climate change by Dr. Tamitha Skov of the Aerospace Corporation on March 16th, two seminars on October 26th under the Science Café Grant/National Chemistry Week celebrations by Prof. Surya Prakash of USC and Dr. Paul Rochelle of the Southern California Metropolitan Water District and a seminar on October 28th by Dr. Frederique Cunin of France.

There were a couple of award winners from our Executive Committee, Dr. Brian Brady (ACS Fellow Award) and Michael Morgan (James Bryant Conant Award). In addition, Dr. Dennis Dougherty of Cal Tech got the Arthur C. Cope Award and Sarah Reisman of Cal Tech got the E.J. Corey award for Outstanding Original Contribution in Organic Synthesis by a Young Investigator. Congratulations to all of them. Our congratulations also go to the Nobel Prize in Chemistry winners for 2019 (for details see C&E News, October 9, 2019).

We also had sad news during the year in the passing away of Rita Boggs, one of the pioneers of our SCALACS. Our condolences to her family.

I am looking forward to a dynamic 2020 for SCALACS under the guidance of Chair Brian Brady. I am also sure that more of the SCALACS general membership will participate in our activities and also offer suggestions for serving the community better.

Krishna Kallury (kkallury@socal.rr.com)

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Announcing the 2019 Agnes Ann Green Award Recipient for Distinguished Service to the Section: Veronica Jaramillo

We are pleased to announce that Veronica Jaramillo has been selected to receive our Section's Agnes Ann Green Award. Details about the dinner will be announced on our website, www.scalacs.org.

Veronica exemplifies the level of outstanding and sustained service and commitment to our local ACS section that this award was designed to honor. She joined the ACS in 1997 during her graduate school years at the University of Arizona and contributed to the ACS by presenting at local and national meetings and helping the undergraduate student chapter with their activities including doing outreach to local elementary schools. She really fell in love with this aspect of the ACS - to communicate chemistry to the community.

Since 2006, she has been an advisor to two ACS student affiliate chapters, at East Los Angeles College (ELAC) and Pasadena City College. Her Chemistry Clubs have been active in promoting chemistry on campus, at local elementary schools and in the community. For their work, they have been regularly recognized by the ACS with Outstanding and Commendable Awards.

In 2011 she was elected to the SCALACS executive committee. She also was part of the 2011 Western Regional Meeting steering committee and, along with the ELAC student chapter planned the undergraduate portion. Their theme was "Discover your Chemical Pathway!" and they had a unique career-focused "speed dating" event that allowed students to speak informally to chemists from academia, industry, and government. This event was a finalist for an ACS ChemLuminary award and has been replicated at national meetings. She was awarded a Salutes to Excellence Award by SCALACS for this programming.

In 2012, she became the chair of the Women Chemists Committee and arranged dinner meetings, arranged women chemists panels and helped at science outreach events. In 2013, she was elected as Chair of SCALACS. During her tenure as chair she hosted dinner meetings across the local section and on campuses to further expand the reach of the section. In 2016, she was elected as an Alternate Councilor and has represented the section at Council and learned more about the governance structure of ACS.

Veronica's arc of local section involvement is exemplary and sets the bar for our future leaders. She has been helpful and engaged since the beginning of this involvement with local section leadership, has risen to the challenges of increased responsibility, and has contributed in ways that have been of great benefit to the Southern California Section of the American Chemical Society.

CSUN NGSS Palooza Fall 2019

Saturday, November 2, 2019

CSUN Education Building

1811 Nordhoff Street Northridge, CA 91330 9:00 am to 3:00 pm Coffee and Continental Breakfast at 8:30 am Free Lunch

CSLC is presenting the Fall 2019 NGSS-Palooza at CSUN on November 2nd. We will have a full day of great science workshops, prizes and free food with many new topics (high altitude balloons) and a few classics. Some of the groups presenting include Project WET and American Chemical Society. See the RSVP page for the list. Come out and get your NGSS in gear. CSUN Faculty and expert teachers will share 3-Dimensional lessons that utilize collaborative technology. Learn more at csunscience.com.

Science teachers are invited to come to our annual event to explore and celebrate NGSS teaching. This year's theme is **Environmental Literacy**: How to use the environment to engage students in the Science and Engineering Practices.

The event is free for all science teachers, but space in the best sessions is limited.

RSVP early to ensure your spot: bit.ly/ngsspalooza2019

Parking: Park in Lot 5. Parking is \$8 by cash/credit card at the kiosk near the elevator. Please note that they do ticket on weekends.

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2019 Occidental College High School Chemistry Teachers Meeting

This is a meeting for Chemistry Teachers by Chemistry Teachers!

November 9, 2019

Occidental College

1600 Campus Road Los Angeles, CA 90041 Mosher Room 1

Registration opens at 8 AM, Program 9 AM to 3 PM, Lunch Included Free parking on campus

Featuring presentations by:

Barry Vella, Venice High School, Susannah Hall, Hollywood STEM Academy, Paul Groves (retired), South Pasadena High School and Michael Morgan and Caroline Morgan, Francisco Bravo Medical Magnet High School and more...

The fee is \$30 (nonrefundable) payable to SCALACS. Pre-service teachers can attend for just \$5! Paypal registration is now open. To register and pay by Paypal, please go to https://scalacs.org/?page_id=2855. Please remember that your registration is not complete until you pay. You will receive a confirmation from Paypal. **The deadline to register is October 31, 2019.**

Reservations can be made via email to Nancy Paradiso at office@scalacs.org. The registration link is available on our website, www.scalacs.org. Questions about the program or to volunteer to give a presentation, contact Michael A. Morgan (Education Chair) at mmorgan@lausd.net.

Sponsored by the Southern California Section of the American Chemical Society and the Occidental College Department of Chemistry

Call for Nominations 2019 Richard C. Tolman Medal

The Tolman Medal is awarded each year by the Southern California Section of the American Chemical Society in recognition of outstanding contributions to chemistry. These contributions may include achievements in fundamental studies; achievements in chemical technology; significant contributions to chemical education; or outstanding leadership in science on a national level. The nominee need not be a Southern California resident; however, most of the award-related accomplishments must have been made in this area.

The Southern California Section of the American Chemical Society and the Tolman Award Committee are now seeking nominations for the **2019** award. There is no official nominating form for this award; nominations are accepted from any member of this section or of neighboring sections. The nomination package should include:

- an up-to-date curriculum vitae or resume of the candidate
- letters of support from colleagues in the profession describing the candidate's major achievements
- if the candidate is being considered for outstanding teaching, letters of support from former students should be included.

Please submit nomination packages electronically to the Chair of the Tolman Committee at **office@scalacs.org**. Rather than submitting copies of publications, a list of representative publications would suffice. *The deadline for receipt of nominations is December 16, 2019*. Inquiries should be directed to the Chairperson via email at office@scalacs.org. A list of winners appended here demonstrates the caliber of awardee sought by the committee.

	0 0		
1960	William G. Young	1980	Herbert D. Kaesz
1961	Anton B. Burg	1981	Paul D. Boyer
1962	Ernest H. Swift	1982	Donald T. Śawyer
1963	W. Conway Pierce	1983	James N. Pitts
1964	A.J. Haagen-Schmidt	1984	Donald C. Cram
1965	Thomas Doumani	1985	Arnold O. Beckman
1966	Arthur W. Adamson	1986	M. Frederick Hawthorne
1967	Ulric B. Bray	1987	Clifford A. Bunton
1968	Francis E. Blacet	1988	John D. Baldeschwieler
	Robert Vold	1989	Mustafa A. El-Sayed
	Robert L. Pecsok	1990	Linus Pauling
1971	Roland C. Hansford	1991	George A. Olah
1972	James Bonner	1992	Peter C. Ford
1973	Howard Reiss	1993	Charles L. Wilkins
1974	John D. Roberts	1994	Jacqueline K. Barton
1975	Corwin Hansch	1995	Christopher S. Foote
1976	F. Sherwood Rowland	1996	Larry R. Dalton
	Sidney W. Benson	1997	Ahmed H. Zewail
1978	Гhomas С. Bruice	1998	Kendall N. Houk
1979	Harry B. Gray	1000	Peter Dervan

000 001	William A. Goddard III Peter M. Rentzepis
002	Robert H. Grubbs
003	Arieh Warshel
004	Christopher Reed
005	Fred Wudl
006	G. K. Surya Prakash
007	Barbara Finlayson-Pitts
800	Joan S. Valentine
009	Richard B. Kaner
010	Dennis Dougherty
011	Karl O. Christie
012	John E. Bercaw
013	Mark E. Thompson
014	William J. Evans
015	Michael E. Jung
016	Paul S. Weiss
017	Jeffrey I. Zink
018	Clifford P. Kubiak

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Call for Nominations Paul Shin Memorial High School Chemistry Teacher of the Year Award

If you know of a local high school chemistry teacher who is making a difference, please make the effort to show how important his/her work is to you and the students. Self-nominations from those who feel they fit the requirements are accepted as well. It's teachers like the recipients of this award who make learning chemistry rewarding. Plus, there is a financial component of \$500. The \$500 will be an unrestricted award directly to the teacher. The winner of the Section Award will also be entered at the National ACS level for the James Conant Bryant Award and the Western Regional High School Teacher of the Year Award. Having won a previous award does not necessarily exclude a nominee; however, the nomination would need to be based on different criteria than the first award.

Nomination Package should include: Biographical sketch of nominee with date of birth, list of any publications, statement (no more than 1,000 words) of nominee's achievements as a high school chemistry teacher including quality of teaching, effective methods, nominee's ability to challenge and inspire students, extracurricular work (science fairs, clubs, etc.). Seconding letters are not essential, but up to five may be included. **Nominating documents should be submitted via email to office@scalacs.org.** Note that signed documents that have been scanned are acceptable.

The deadline for nominations is **November 15th, 2019**. Please feel free to contact Michael Morgan of the Educational Affairs Committee at mmorgan@lausd.net if you have any questions.

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Thanks to all 2019 Volunteers

The many programs and services that your Section provides are accomplished by the volunteers of the various committees. We would like to acknowledge and thank all of you who volunteered your time and talents during this year.

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Bradv

Secretary/Treasurer: Coordinator MSMU

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Thomas Mathew Michael Morgan

Sofia

Pappatheodorou

(Continued on Page 9)

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Thank You List (Continued from Page 6)

Community Activities: (Continued)

Armando Rivera Eleanor Siebert Barbara Sitzman

Organizations Supporting Section Community Activities:

ACS Office of Science Outreach CSULB Chem. Dept. CSUN Chem. Dept. LACC PCC

MSMU Occidental College California Science Center—Evelyn Serrano

ACS Student Chapters:

- MSMU
- CSUDH
- CSULB
- CSUN - LACC
- Pasadena City College
- Occidental College

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Nominations & Elections

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Krishna Kallury
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Tolman Award

Dr. Catharine Larsen, Chair. Confidential committee, but you know who you are!

Webmaster

Barbara Belmont

It takes a lot of people's time and efforts to make our programs work. We as a Section, and the community at large, sincerely appreciate the dedication of these people and invite you to participate if you haven't already! This Section would be nothing without your volunteer efforts.

Edve Udell

We tried to get everyone on the list, if we missed you, please accept our thanks for a job well done!



This Month in Chemical History Harold Goldwhite, California State University, Los Angeles hgoldwh@calstatela.edu

I recently acquired another of those nineteenth century books that invariably tempt me when I see them advertised at reasonable prices on-line. The listing was not forthcoming; it was simply "Science Record. 1874". I received commendably promptly a marron cloth bound volume, in good condition, with a splendid goldembossed picture of what seems to be a Newcomen steam engine (long obsolete by 1874) on the front cover. The nearly 600 closely printed pages were edited by Alfred E. Beach and published in New York by Munn and Company.

Off to Wikipedia to research Mr. Beach who turns out to be a fascinating person. He was born in Massachusetts in 1826, son of a publisher and apparently well-off. He worked for his father but then, with his friend Orson Munn (aha!) he bought a struggling new magazine called "Scientific American" (aha! again). That magazine, under the care of Beach and Munn, became successful and continued to be owned by their descendants for several generations. It is published to this day.

Beach is known as an author, a publisher, an inventor, and a patent lawyer. His best-known invention was the first subway system in Manhattan. Inspired by London's new Underground, but trying to avoid the use of smelly coal-fired engines, Beach invented a new tunneling machine, and used pneumatic propulsion for his subway train. After years of legislative wrangling (this was the era of Tammany Hall) he received legislative agreement for a pilot line that ran underground for only 300 feet. The train operated for three years and was supplanted by other investors who reverted to conventional steam-powered trains. Beach also pioneered the use of pneumatic tubes to transport goods and documents in stores and offices, and he invented a typewriter for the blind. Beach and Munn's patent agency was another successful enterprise. After the Civil War Beach founded a school in Savannah for freed slaves.

Now let me return to the subject of this column, "Science Record" for 1874 subtitled "A Compendium of Scientific Progress and Discovery during the past year With Illustrations". The preface makes it clear that "Science Record" is a continuing series that began in 1872 and has been so successfully received by the public that the publishers have reprinted all the earlier volumes. The book is fully indexed and covers chemistry and metallurgy in 83 pages; technology in 110 pages; electricity, light, heat, and sound in 60 pages; mechanics and engineering in 90 pages; botany and horticulture in 20 pages; agriculture and rural economy in 25 pages; domestic economy in 15 pages; materia medica, therapeutics, and hygiene in 50 pages; pisciculture in 40 pages; natural history and zoology in 40 pages; geography in 20 pages; geology and mineralogy in 20 pages; astronomy in 15 pages; miscellaneous in 15 pages; and, finally, 5 pages covering two biographies. (Continued on Page 11)

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This Month in Chemical History

(Continued from Page 10)

This admirable volume clearly has something for everyone.

I will start with the section on chemistry and metallurgy that opens appropriately on a full-page portrait of Baron Justus von Liebig, one of the most distinguished and versatile of nineteenth century chemists. If you are unaware of Liebig's achievements I refer you (WARNING: ADVERTISEMENT) to "Creations of Fire" by Cathy Cobb and Harold Goldwhite; or "A Chemical Chrestomathy" by Harold Goldwhite. However the section begins with an essay by Henry Armstrong, a well-known English chemist, on "The Artificial Formation of Organic Substances" Chemistry has come a long way from the vitalistic doctrines that were common enough in the early 19th Century, and in 1874 chemists can synthesize many naturally occurring organic compounds. Armstrong starts with simple compounds derived from alcohols including aldehydes and fatty acids "identical with those which enter into the composition of the natural fats".

I will do some "daisy-picking" among the hundreds of interesting articles, each summarized in a short paragraph, that make up this section. Eilhardt Mitscherlich, famed in crystallography and chemistry, has devised a direct method to determine quantitatively not only carbon and hydrogen, but also halogens, phosphorus, and – probably - nitrogen in organic compounds.

The usual reagent employed to destroy chlorine used as a bleach on fabrics and paper is sodium hyposulfite, that has the unfortunate side-effect of leaving some elemental sulfur in the substrate. This slowly oxidizes to sulfurous and sulfuric acids that weaken and even eventually destroy the fabric or paper. Sulfite of soda, that does not lead to sulfur deposits in the bleached objects, is a superior antichlor.

Under the title "New Explosive Compound" Messrs. Noirbin and Ohlson of Stockholm have discovered that if simple ammonium nitrate, a compound not usually considered an explosive, is ignited by another explosive primer, it becomes a powerful explosive itself. The abstract gives the recipe; I will not report it here, but it is worth recalling that the bomb in the Oklahoma City explosion was largely the agricultural chemical ammonium nitrate.

More to follow from this fascinating glimpse at science 140 years ago.

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Insights Into IP Law Keith Orso*, Irell & Manella LLP

KOrso@irell.com

As a general matter, "prior art" is publicly-accessible information against which the subject matter of an invention is compared in order to determine whether the invention is patentable. In the United States, an invention is said to be subject to the "on sale" variety of prior art—creating what is known as an "on-sale bar"—if it was sold or offered for sale for a period of time before the inventor filed a corresponding patent application.

One policy underlying the "on-sale bar" is to discourage inventors from making their inventions public—other than through patenting—thereby suggesting to the world that their inventions are freely available, and then turning around and withdrawing their inventions from the public domain by patenting them.

The on-sale bar also encourages inventors to promptly disclose their inventions to the public via patent applications. This leads to prompt issuance of patents and earlier additions to the accumulated body of public knowledge and experience, upon which further improvements can be made, promoting the progress of science and the useful arts.

Another rationale for the on-sale bar is that inventors should not be allowed to commercially exploit their inventions too long before filing for patent protection, delaying the onset and—consequently—the expiration of such protection. Such delays would extend their monopolies and prevent the public from using the inventions sooner. But how long is too long to be selling an invention before filing for patent protection?

The Patent Act of 1839 specified that the limit was two years, stating the "no patent shall be held to be invalid by reason of [a] purchase, sale, or use prior to the application for a patent . . . except on proof of abandonment of such invention to the public; or that such purchase, sale, or prior use has been for more than two years prior to such application for a patent." This rule was characterized at the time as being somewhat harsh in its operation on individual rights. And yet, in 1939, Congress amended the "on sale bar" to shorten the grace period from two years to one year. A Senate Report explained that 2 years may have been a proper length of time for an inventor to make up his or her mind whether to file an application for patent back in 1839, but 2 years had come to be viewed as unduly long, operating to handicap industry. One year, the report stated, was believed to be a very fair period for all concerned. And so the on-sale bar applies to subject matter that was on sale more than one year before the inventor filed for a patent.

* The author earned engineering and chemical engineering undergraduate and graduate degrees, and is a patent attorney and partner at the law firm of Irell & Manella LLP. This column does not constitute legal advice and does not necessarily reflect the views of the firm or its clients.

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Chair's Message

The San Gorgonio September meeting was a celebration of the Section's past, present and future. 50-year and 60-year member honorees, friends, family and students from local chemistry clubs gathered at Eddie's Italian Eatery in Claremont for camaraderie and a delicious luncheon. Over 400 years of distinguished chemical experience and knowledge was commemorated.

The Section continued to celebrate its past 70 years by sharing inspirational ACS stories of four long-time members who have recently passed.:

Dr. Kathy Webster, 39-year member, was the founding dean of the School of Pharmacy & Health Science at the Keck Graduate Institute in Claremont. She was involved with the establishment of four schools of pharmacy during her career. A practical feminist, Kathy promoted STEM education, introducing a middle-school lab and chemistry program for girls. Her first priority was always the students, ensuring their success. David Webster, her husband of 40 years, described how they met as a result of a minor organic chemistry lab accident.

Dr. Mitsuru Kubota, 60-year member, spent his entire professional career at Harvey Mudd College. It was his influence and inspiration of students that led Dr. Kubota to receive the 1992 American Chemical Society Award for Research at an Undergraduate Institution. Kubota's leadership in undergraduate research and his exemplary research mentorship of undergraduates at the College were honored in 2015 with an endowed research fellowship. His daughter, Lynne Kubota Hanamoto, shared his love of orchids, developing a hybrid cymbidium orchid that he named Cymbidium Waimea in honor of his Hawaiian high school.

Dr. Julian Roberts, 61-year member, spent his entire professional career at the University of Redlands. He was presented with the Mortarboard Faculty Recognition Award as the outstanding teacher on campus. He authored a lab manual that is still in print and reviewed articles for the Journal of Chemical Education. His wife of 53 years, Jane Roberts, shared his courageous use of the California's End of Life Option Act.

Dr. Walter Maya, 63-year member, divided his career between industry and academia. Some of his experiences as a rocket scientist in the 1960's at Rocketdyne are described in the book "Ignition! An Informal History of Liquid Rocket Propellants." With the conclusion of the Saturn missions, projects became increasingly military, and he left Rocketdyne. He taught at Cal Poly Pomona in the chemistry department for 30 years, helping to found the graduate program, serving as union president and in the faculty senate. Karen Maya, his wife, shared his love of family and music. He played the flute throughout his life and studied classical guitar with Theodore Norman.

(Continued on Page 14)

Chair's Message (Continued from Page 13)

Student members of chemistry clubs from California Baptist University, University of La Verne, U.C. Riverside, Cal Poly Pomona and College of the Desert represent both the present and the future of the Section. Each club shared their plans and goals for the current school year. Planned activities include a National Chemistry Week event and a field trip to the Getty museum. Lively networking occurred between students and senior ACS members as educational and employment opportunities were discussed.

Also regarding the Section's future; the annual election of officers will occur in the next eight weeks. The available offices are; Chair-elect, Treasurer and Councilor. If you are interested in running for one of the available offices or have any questions, please contact Dr. Ernie Simpson (jesimpson@cpp.edu).

Ernie Simpson, Chair

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6. Belmont

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Total Distribution	1233	1188
Copies Not Distributed	167	212
Total	1400	1400
Percent Paid Circulation	98	98
Paid Electronic Copies	1965	1979
Total Paid Print + Electronic	3173	3142
Total Print Distribution + Electronic	3198	3167
Percent Paid (Print & Electronic)	99	99

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San Gorgonio Section

Annual Meeting and 70th Anniversary Celebration Finale

Saturday, November 16, 2019 10:00 – 3:00 p.m.

Chemical Sciences Building, Room 231

University of California, Riverside 900 University Avenue Riverside, CA 92521

In addition to our normal annual meeting activities, this year's meeting is the finale of our 70th anniversary celebration. The Chemistry program at UCR continues to expand and an update will be given. ACS President Dr. Bonnie Charpentier will be on hand to help us celebrate. The upcoming election for 2020 officers will be discussed and additional nominations solicited. There will also be drawings for a variety of door prizes. Come celebrate 70 years of our successful San Gorgonio Section and help plan the new year!

Bonnie Charpentier, PhD, is President of the American Chemical Society. She previously served on the ACS Board of Directors, including as Chair, and has held many other governance positions in ACS. Locally, she has been instrumental in establishing chemistry workshops for teachers, interviewing skills for students, and outreach for hands-on chemistry with children in homeless shelters. She is currently Senior Vice President of Regulatory and Compliance at Cytokinetics, where she is responsible for Regulatory, Quality and Drug Safety. Bonnie has extensive experience in drug research and development, and previously, in analytical chemistry. Bonnie's 2019 ACS focus is on collaboration, emphasizing advocacy, and safety and the environment.

(Program Continues on Page 16)

Luncheon Meeting (Continued from Page 15)

Program:

Welcome – Dr. Ernie Simpson, Section Chair San Gorgonio Section Stories/Histories Distinguished guests

What's new in Chemistry at UCR "U.N. Sustainable Development Goals and How ACS Fits In" **Dr. Bonnie Charpentier, ACS President**

Lunch

Recognition of Previous Section Officers and VIPs Overview of Planned 2020 Section Activities Visit to UCR Botannical Garden

Lunch, Cost and Reservations: Please RSVP to dennis.pederson@gmail.com, no later than Monday, November 11. There is no cost for students; \$10 for everyone else; payment at the door. Lunch consisting of a variety of sandwiches, salads, and soft drinks will be provided. Please indicate any special dietary requirements with your RSVP. We must also submit names of anyone who will need a parking pass for the meeting.

Parking: The UCR Chemistry Department will pick up the parking cost for participants at this meeting; THANK YOU! Carpools are encouraged. Get to the campus and go to the information kiosk at the main entrance on West Campus Drive. Tell the parking person that you are a participant in the ACS meeting in the Chemical Sciences Bldg. and obtain a parking permit and directions to the meeting site, the Parking Lot where you are to park, and a campus map.

Directions: UCR is located off the 215/60 freeways in Riverside at the University Avenue exit. Consult the campus website for a detailed area map, showing various ways of getting to the campus. http://campusmap.ucr.edu/imap/index.html.

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IMPORTANT Do Not Delay!

Contains Dated Meeting Announcement

Bi-Section Chemists' Calendar

For more information on these events, please check our website at www.scalacs.org

November

- 2 SC CSUN NGSS Palooza for Science Teachers—see page 4
- 9 SC High School Chemistry Teachers Meeting—see page 5
- 16 SG Annual Meeting and 70th Anniversary Finale—see page 15

Happy Holidays and we hope to see you at an event in 2020!

Check our websites for activities:

www.scalacs.org

www.sangorgonio.sites.acs.org.