San Francisco

ACS NATIONAL MEETING

253rd ACS National Meeting

San Francisco, April 2–6

"Advanced Materials, Technologies, Systems & Processes" will be the theme in San Francisco this April. Many notable symposia are scheduled, including "Communicating Science in the 21st Century to Diversified Audiences" and "Teaching, Researching & Community Building in the Global Chemical Enterprise."

ACS President Allison A. Campbell will host 29 technical divisions and six committees in original programming, including 1,100 half-day oral sessions and 144 poster sessions. More than 14,500 papers and nearly 5,700 posters will be presented.

Campbell will sponsor several presidential events. On Sunday and Monday, April 2–3, the two-day symposium "LGBT Graduate Student & Postdoctoral Scholar Chemistry Research" will include scientific talks by LGBT graduate students and postdoctoral researchers and a panel discussion on issues that affect LGBT students and postdocs. Sunday afternoon, "Holy Grails in Chemistry: Celebrating the 50th Anniversary of Accounts of Chemical Research Journal" will assess the progress made in critical areas of chemistry since they were highlighted in a 1995 issue of the journal. On Monday, April 3, "Science for a Sustainable Energy Future" will focus on scientific advances in energy storage and chemical and biological approaches to energy conversion. Details on these and other presidential events can be found at www.acs.org/sanfran2017.

Many education-focused programs for high school teachers, undergraduate and graduate students, postdocs, and chemical professionals will be offered. A range of professional development courses will be available; ACS Professional Education Short Courses have a separate registration and fee. For job seekers and employers, the career fair will feature on-site interviews, one-on-one career assistance, and workshops.

The exposition will feature more than 250 companies showcasing services, instruments, books, and lab equipment in more than 400 booths.

The San Francisco area offers a mix of culture and natural beauty. Tour the infamous Alcatraz Federal Penitentiary, snack on dim sum in historic Chinatown, stroll through the popular Castro District, or explore natural history at the California Academy of Sciences. —ALEXANDRA TAYLOR

MEETING INFO ON THE WEB

www.acs.org/sanfran2017

REGISTRATION CATEGORY	FEES
MEMBERS	
ACS affiliate	$535
Postdoctoral member	535
Emeritus or retired member	270
50-year member	No fee
Unemployed member (Dues waiver required)	No fee
Precollege teacher	110
Graduate student	225
Undergraduate student	110
One-day registrant	270
NONMEMBERS	
Chemical scientist	$935
Postdoctoral scientist	935
Visitor: Nonchemical scientist or chemical technician	535
Precollege teacher	110
Graduate student	445
Undergraduate student	225
One-day registrant	535
Guest of registrant[a]	45
EXPOSITION-ONLY VISITORS	
Adult	$60
Student	30

a Registration is restricted to a spouse or family member of a registered attendee having no affiliation with the field of chemical science and who is not eligible to become an ACS member. Only one guest registration is allowed per registering attendee, and the guest registration must be completed and paid by the registering attendee at the time of original registration.

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ACS NATIONAL MEETING

General meeting information

Registration

All attendees, including speakers and poster presenters, must register for the meeting to participate in the technical sessions. Sponsored speakers should contact their symposium organizer or division program chair to clarify the terms of their invitation and to determine who will complete the speaker's registration. Attendees must display their badge at all times for admission to all official ACS sessions and events.

Early registration. Attendees in the U.S. who registered before Feb. 20 will receive their badge credentials by mail before the meeting. International registrants must pick up their badge credentials at ACS attendee registration (this includes Canada and Mexico).

Standard & on-site registration. Attendees who register after Feb. 20 must pick up their badge credentials on-site at attendee registration areas. On-site registration will be available at the Moscone Center, North Lobby; the Hilton SF Union Square, Ballroom Level, West Lounge; and the Grand Hyatt San Francisco, Theater Level. Cash transactions will not be available at the satellite registration areas. Only checks and credit cards can be used to make purchases at the satellite registration areas. ACS attendee registration will open at the Moscone Center, North Lobby, on Saturday, 3 to 6 PM; Sunday, 7:30 AM to 7:30 PM; Monday, 7:30 AM to 9 PM; Tuesday, 7:30 AM to 5 PM; Wednesday, 7:30 AM to 4 PM; and Thursday, 7:30 AM to 1 PM. The satellite registration areas will follow the same schedule but are subject to change depending on the activity at the location.

Satellite registration & on-site program pickup. Printed copies of the on-site program book will no longer be available for free. In support of ACS's sustainability efforts, we encourage the use of the ACS San Francisco mobile app and digital program for quick access to the meeting's full technical program, maps, and search features.

Prefer a printed on-site program? The on-site program book will now be available for a $20 fee. The author index will be included in the printed program booklet. Purchase your copy during the registration process or visit the locations listed below. Limited quantities will be available. Replacement copies also cost $20. Cash transactions will not be permitted at the satellite registration areas. Only credit cards or checks can be used to make purchases at the satellite registration areas. Printed programs can be picked up or purchased at the following locations:

- Moscone Center, North Lobby
- Hilton SF Union Square, Ballroom Level, West Lounge
- Grand Hyatt San Francisco, Theater Level

Learn about ACS national meeting sustainability efforts at www.acs.org/greenermeetings. Questions? Contact nationalmeetings@acs.org.

Travel

TRANSPORTATION DISCOUNTS. ACS has negotiated special travel discounts with the following partners. To get the best rates and avoid service fees, it is recommended to make reservations online (except for Amtrak).

AIRLINES:
Delta
delta.com/meeting; (800) 328-1111
Discount code: NMPBR

United Airlines
united.com; (800) 426-1122
Discount code: ZXMC508834

TRAIN:
Amtrak
(800) 872-7245
Discount code: X90C-958 (phone reservations only)

CAR RENTAL:
Avis
avis.com; (800) 331-1600
Discount code: B923099

Hertz
hertz.com; (800) 654-2240
Discount code: 02UZ0016

AIRPORT GROUND TRANSPORTATION. San Francisco International Airport is located 13 miles south of downtown San Francisco.

Public transportation. San Francisco has a comprehensive public transportation system that includes the Bay Area Rapid Transit (BART) system, Caltrain commuter rail, and SamTrans public bus service. For more information, please visit bit.ly/2jueoyY.

Taxi services. Taxis depart from the designated taxi zones located at the roadway center islands, on the arrivals and baggage claim level. Fares range from $46.16–$66.16. A $2.00 exit surcharge is included in all San Francisco taxicab meter fares for rides originating from San Francisco International Airport.

TRAVELING TO MEETING VENUES. The Moscone Center is located at 747 Howard St.

ACS shuttle. Complimentary shuttle service will be provided between the Moscone Center and official ACS hotels, with the exception of hotels within walking distance.

Parking. There is no parking provided at the Moscone Center for attendees or exhibitors. Nearby parking garages are listed on the Moscone Center website.

Events & activities

A variety of organizers will host special events during the meeting. Event participation is open to all interested registrants. **All**

ACS badge reprint policy

First badge reprint: No charge; upon proper identification and confirmation of registration payment, a duplicate badge is issued.
Second badge reprint: Attendee completes a duplicate badge request, shows identification, and pays a charge of $25 (cash/credit card), and a duplicate badge is issued.
Third badge reprint: Attendee completes a duplicate badge request, shows identification, and pays a charge of $50 (cash/credit card), and a duplicate badge is issued.
Beyond third badge reprint: Attendee completes a duplicate badge request, shows identification, and pays a charge of $100 (cash/credit card), and a duplicate badge is issued.

nonticketed events require a visible registration badge for entry.

Tickets are sold on a first-come, first-served basis. Ticket sales will close at 6 PM the evening before the event. Some event organizers may offer a limited number of tickets for sale at the door of the event. The deadline for cancellation and refund requests was March 6.

Locations and times are subject to change. To learn more about these events and to buy tickets or register, visit www.acs.org/sanfran2017.

▶ Friday, March 31

CHAS Laboratory Waste Management
8 AM to 5 PM, Moscone Center, Room 120

CHAS Laboratory Safety Workshop
8 AM to 5 PM, Moscone Center, Room 121

▶ Saturday, April 1

CHAS Cannabis Extraction & Analysis Workshop
8 AM to 5 PM, Moscone Center, Room 120

CHAS How To Be a More Effective Chemical Hygiene Officer
8 AM to 5 PM, Moscone Center, Room 121

CHAS Using ACS Lab Safety Resources in the Classroom
8 AM to 5 PM, Moscone Center, Room 124

CHAS Reactive Chemical Management for Laboratories & Pilot Plants
8 AM to 5 PM, Moscone Center, Room 125

COACh Strong Women in the Art of Strategic Persuasion
8 AM to 5 PM, SF Marriott Union Square, Sutter 1

COACh Upping the Game: Refresher Workshop for Past COACh Alums
8 AM to 5 PM, SF Marriott Union Square, Sutter 2

COACh Reception
5 to 7 PM, SF Marriott Union Square, Russian Hill

FOR UP-TO-DATE EVENT LISTINGS, VISIT
www.acs.org/sanfran2017

▶ Sunday, April 2

Undergraduate Hospitality Center
8 AM to 5 PM, SF Marriott Marquis, Salon 7

Career Pathways Workshops
8 AM to 5:30 PM, W San Francisco, Great Room 2

Career Pathways I
8 AM to 5:30 PM, W San Francisco, Workroom 1

Career Pathways II
8 AM to 5:30 PM, W San Francisco, Workroom 2

Career Pathways III
8 AM to 5:30 PM, W San Francisco, Workroom 3

Making the Most of Your First National Meeting
8:30 to 9:15 AM, SF Marriott Marquis, Salon 7

Graduate School Reality Check, Part 1: Getting In
10 to 11:30 AM, SF Marriott Marquis, Golden Gate Ballroom B

Graduate & Postdoc Focus Group
10 AM to noon, Moscone Center, 2nd floor, Area 2

Chem Demo Exchange: Household Chemicals
11 AM to 12:30 PM, Moscone Center, Hall A

Graduate School Reality Check, Part II: You're In—Now What?
11:30 AM to 12:45 PM, SF Marriott Marquis, Golden Gate Ballroom B

ACS Board Luncheon & Meeting
Noon to 1 PM, Moscone Center, Gateway Ballroom 103/104

CHED High School/College Interface Luncheon/SE-01/$45
Noon to 1 PM, SF Marriott Marquis, Salon 7

POLY Board Meeting
Noon to 1 PM, Moscone Center, Room 132

Developing Communication Strategies
Noon to 5:30 PM, Park Central San Francisco, Commonwealth

BIOT Lunch Seminars
12:30 to 2 PM, InterContinental San Francisco, InterContinental B

CTA Awards Luncheon/SE-02/$45
1 to 3 PM, Hilton SF Union Square, Continental Parlor 3

Networking Social with Graduate School Recruiters
1 to 5 PM, Moscone Center, Hall A

Networking 101
1:30 to 3 PM, SF Marriott Marquis, Golden Gate Ballroom A

Graduate & Postdoc Focus Group
2 to 4 PM, Moscone Center, 2nd Floor, Area 2

Two-Year to Four-Year College Transfer Survival
2:30 to 3:30 PM, SF Marriott Marquis, Golden Gate Ballroom B

Advanced Materials, Technologies, Systems & Processes Plenary Session
3 to 6 PM, Moscone Center, Gateway Ballroom 103 & 104

SciBabe: Chemistry Blogging
4 to 5:30 PM, SF Marriott Marquis, Golden Gate Ballroom A

On-site program book no longer free

Copies of the on-site program book will be available for $20. In response to numerous requests, the author index will be included in the printed program booklet. Satellite registration and on-site program purchase/pickup will be located at the Moscone Center, Hilton Union Square, and Grand Hyatt San Francisco. Credit cards, debit cards, and checks will be accepted at these locations.

In support of ACS's sustainability efforts, we encourage our meeting attendees to download the ACS San Francisco mobile application or access the ACS San Francisco digital meeting program with author index in early April. These digital options will provide quick access to the full technical program, along with special features so you can easily build your schedule.

MEETING INFO ON THE WEB

Registration, housing, technical programming, special events, participating exhibitors, and other meeting details are available at www.acs.org/sanfran2017.

IAC Networking Globally: Helping Chemistry Students Find Success in Careers and Study Abroad/SE-03/no charge
4 to 5:30 PM, Hilton SF Union Square, Yosemite C

Faculty and Postdoc Afternoon Coffee Break
4 to 6 PM, Hotel Nikko San Francisco, Monterey I

Diversity Reception
5 to 7 PM, Hilton SF Union Square, Yosemite A & B

AGFD Poster Session Reception
5 to 7 PM, Moscone Center, West Hall

University of Wisconsin, Madison, Alumni & Friends Social Hour
5 to 7 PM, Park Central San Francisco, Concordia Park

University of California, San Diego, Alumni & Friends Social Hour
5 to 7 PM, SF Marriott Marquis, Salon 1

University of Illinois, Urbana-Champaign, Alumni & Friends Reception
5 to 8 PM, InterContinental San Francisco, Sutter

District I Councilor Caucus
5:30 to 7 PM, Hilton SF Union Square, Union Square 1 & 2

CHED Social Reception
5:30 to 7 PM, Moscone Center, Room 130

COLL Social Hour/Poster Session
5:30 to 8 PM, Moscone Center, Halls B/C

INOR Poster Session
5:30 to 7:30 PM, Moscone Center, Hall D

ORGN Poster Session
5:30 to 7:30 PM, Moscone Center, West Hall

C&EN DIGITAL MEETING PROGRAM AVAILABLE AT

cenm.ag/sanfran2017

Joint Research Corporation Petroleum Research Fund Reception in Honor of the Awardee for Research at an Undergraduate Institution
5:30 to 7:30 PM, Hilton SF Union Square, Golden Gate 4 & 5

International Welcome Reception/SE-04/no charge
5:30 to 7:30 PM, Hilton SF Union Square, Grand Ballroom A

District II Councilor Caucus
6 to 7 PM, Hilton SF Union Square, Union Square 3 & 4

District III Councilor Caucus
6 to 7 PM, Hilton SF Union Square, Union Square 5 & 6

District IV Councilor Caucus
6 to 7 PM, Hilton SF Union Square, Union Square 15 & 16

District V Councilor Caucus
6 to 7 PM, Hilton SF Union Square, Union Square 17 & 18

District VI Councilor Caucus
6 to 7 PM, Hilton SF Union Square, Union Square 19 & 20

SCHB Entrepreneurs' Poster Session
6 to 8 PM, Moscone Center, Halls B/C

University of Washington Alumni & Friends Reception/SE-27/$5.00
6 to 8 PM, W San Francisco, Great Room 1

Attendee Welcome Reception
6 to 8:30 PM, Moscone Center, Halls B/C

CINF Welcoming Reception and Poster Session
6:30 to 8:30 PM, Park Central San Francisco, Franciscan I & II

PROF General Posters
6:30 to 8:30 PM, Moscone Center, Halls B/C

Student Chapter Awards Ceremony
7 to 8:30 PM, Hilton SF Union Square, Grand Ballroom B

ANYL Poster Session
7 to 9 PM, Moscone Center, West Hall

MEDI General Posters
7 to 9 PM, Moscone Center, West Hall

CHED Poster Session
7 to 9 PM, Moscone Center, Hall D

BIOL Poster Session
7 to 9 PM, Moscone Center, West Hall

FLUO Poster Session
8 to 10 PM, Moscone Center, Hall D

Undergraduate Social
8:30 to 11 PM, Hilton SF Union Square, Continental 1–6

▶ Monday, April 3

Women in the Chemical Enterprise Breakfast/SE-05/$40 (regular)/SE-06/$20 (undergraduate)
7:30 to 9 AM, Hilton SF Union Square, Imperial B

YCC Fun Run/SE-07/$30 (regular)/SE-08/$15 (undergraduate)
8 to 10 AM, Moscone Center, outside West Lobby

Engaging Colleagues in Dialogue
8 AM to noon, Park Central San Francisco, Commonwealth

Undergraduate Hospitality Center
8 AM to 5 PM, SF Marriott Marquis, Salon 7

Career Pathways I
8 AM to 5:30 PM, W San Francisco, Workroom 1

Career Pathways II
8 AM to 5:30 PM, W San Francisco, Workroom 2

Career Pathways III
8 AM to 5:30 PM, W San Francisco, Workroom 3

Improving Scientific Communications
9 to 10:15 AM, SF Marriott Marquis, Golden Gate Ballroom B

ACS Exposition
9 AM to 5 PM, Moscone Center, Halls B/C

Women Chemists of Color Networking/SE-09/no charge
10:30 AM to noon, Hilton SF Union Square, Yosemite C

CRC Handbook Discussion Forum
11:30 AM to 3 PM, Moscone Center, Room 134

Committee on Minority Affairs Luncheon/SE-10/$50 (regular)/SE-11/$25 (undergraduate)

11:30 AM to 1:30 PM, Hilton SF Union Square, Grand Ballroom A

CHAL Drug & Power Luncheon/ SE-12/$40
Noon to 1:30 PM, Mourad, 140 New Montgomery St.

Undergraduate Research Poster Session
Noon to 2 PM, Moscone Center, Hall D

BIOT Lunch Seminars
12:30 to 2 PM, InterContinental San Francisco, InterContinental B

Leading Change
1 to 5 PM, Park Central San Francisco, Commonwealth

Women Chemists Committee Open Meeting and 'Just Cocktails' Reception
4 to 5 PM, Hotel Nikko San Francisco, Nikko Ballroom II

The Kavli Foundation Emerging Leader in Chemistry Lecture
4 to 5:10 PM, Moscone Center, Gateway Ballroom 103/104

The Fred Kavli Innovations in Chemistry Lecture
5:15 to 6:30 PM, Moscone Center, Gateway Ballroom 103/104

CHAL Reception
6 to 8 PM, Jillian's, 175 Fourth St.

CACS Dinner Banquet/SE-13/$37
6:30 to 9 PM, Far East Café, 631 Grant Ave.

ACS Graduate & Postdoctoral Scholars Reception/SE-14/no charge
7 to 8:30 PM, Moscone Center, Room 134

UC Berkeley Dept of Chemistry Alumni & Friends Reception
7 to 8:30 PM, InterContinental San Francisco, Grand Ballroom C

Sci-Mix Interdivisional Poster Session/ (drink ticket with registration)
8 to 10 PM, Moscone Center, Hall D

Event participation is open to all interested registrants. Some events require a ticket or registration to participate. Payment and **SE-##** ticket requirements, when applicable, are indicated in the event list. All nonticketed events require a visible registration badge for entry. View an updated listing of events and activities at www.acs.org/sanfran2017.

▶ Tuesday, April 4

University of Minnesota Alumni & Friends Breakfast/SE-16/$5.00
7:30 to 9:30 AM, Moscone Center, Room 2000

Senior Chemists Breakfast/SE-15/$20
7:30 to 9:30 AM, Hilton SF Union Square, Grand Ballroom A

Coaching & Feedback
8 AM to noon, Park Central San Francisco, Commonwealth

Career Pathways I
8 AM to 5:30 PM, W San Francisco, Workroom 1

Career Pathways II
8 AM to 5:30 PM, W San Francisco, Workroom 2

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Career Pathways III
8 AM to 5:30 PM, W San Francisco, Workroom 3

NSF Graduate School Fellowships
9 to 9:45 AM, SF Marriott Marquis, Golden Gate Ballroom A

ACS Exposition
9 AM to 5 PM, Moscone Center, Halls B/C

Women Chemists Committee/Eli Lilly Travel Award Poster Session
11 AM to noon, Hilton SF Union Square, Grand Ballroom A

Alpha Chi Sigma Fraternity Luncheon
11:45 AM to 1:30 PM, John's Grill, 63 Ellis St.

CINF Division Luncheon/SE-20/$30
Noon to 1:30 PM, Park Central San Francisco, Franciscan I

COLL Luncheon/SE-19/$45
Noon to 1:30 PM, W San Francisco, Great Room 1

WCC Luncheon/SE-17/$50 (regular)/SE-18/$25 (undergraduate)
Noon to 1:30 PM, Hilton SF Union Square, Grand Ballroom A

Chemistry & the Environment Film Series
Noon to 2 PM, SF Marriott Marquis, Golden Gate Ballroom B

BIOT Lunch Seminars
12:30 to 2 PM, InterContinental San Francisco, InterContinental B

Leading without Authority
1 to 5 PM, Park Central San Francisco, Commonwealth

Local Section Officers, Outreach Coordinator & Speakers Reception
3:30 to 5:30 PM, Hilton SF Union Square, Continental Ballroom 4

Division Officers & Councilors Caucus
4 to 5:30 PM, Moscone Center, Room 132

ANYL Dinner/SE-21/$25 (regular)/SE-22/$15 (undergraduate)
5 to 7:30 PM, Hilton SF Union Square, Golden Gate 2

Henry Hill & Lou Sacco Award Reception
5 to 7 PM, Hotel Nikko San Francisco, Nikko Ballroom III

UCLA Research Showcase
5 to 7 PM, Moscone Center, Room 135

Sacramento Region Meet & Greet Reception
5 to 7 PM, W San Francisco, Great Room 1

INOR Poster Session
5:30 to 7:30 PM, Moscone Center, Hall D

ORGN Poster Session
5:30 to 7:30 PM, Moscone Center, Hall D

Moissi Kick-Off Reception
5:30 to 7:30 PM, Hotel Nikko San Francisco, Bay View

Division Officers & Councilors Caucus Reception
5:30 to 6:30 PM, Moscone Center, Room 133

POLY/PMSE Joint Poster Session
6 to 8 PM, Moscone Center, Hall A

BIOT Poster Session
6 to 8 PM, Moscone Center, West Hall

COMP Poster Session
6 to 8 PM, Moscone Center, West Hall

ENVR Division Reception/SE-23/$20
6 to 8 PM, ThirstyBear Brewing Co., 661 Howard St.

NUCL Social Hour
6 to 8 PM, Moscone Center, Room 130

CATL Poster Session
6 to 8 PM, Moscone Center, Hall D

ENFL Awards Dinner/SE-24/$60
6:30 to 9 PM, Le Colonial, 20 Cosmo Pl.

CELL Awards Banquet/SE-25/$65
6:30 to 10 PM, The Chart House, Pier 39

ACS National Awards Banquet Ceremony & General Meeting/SE-26/$130
6:30 to 10 PM, SF Marriott Marquis, Salons 8/9

BIOL Poster Session
7 to 9 PM, Moscone Center, West Hall

▶ Wednesday, April 5

Career Pathways I
8 AM to 5:30 PM, W San Francisco, Workroom 1

Career Pathways II
8 AM to 5:30 PM, W San Francisco, Workroom 2

Career Pathways III
8 AM to 5:30 PM, W San Francisco, Workroom 3

Chemical Forensics International Technical Working Group
8:30 AM to 5 PM, Hotel Union Square, Continental Ballroom 4

BIOT Lunch Seminars
12:30 to 2 PM, InterContinental San Francisco, InterContinental B

POLY/PMSE Lecture & Awards Reception
5:30 to 8 PM, Moscone Center, Room 134

ENVR Poster Session
6 to 8 PM, Moscone Center, Hall D

GEOC Poster Session
6 to 8 PM, Moscone Center, Hall D

I&EC Poster Session
6 to 8 PM, Moscone Center, Hall D

PHYS Poster Session
7 to 9 PM, Moscone Center, Hall D

NUCL Poster Session
7 to 9 PM, Moscone Center, Hall D

MEDI & ORGN General Poster Social
7 to 11 PM, Moscone Center, West Hall

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Exposition

SEE WHAT'S NEW INSIDE THE EXPOSITION. Visit the ACS National Exposition at the Moscone Center, Halls B/C, from Sunday, April 2, through Tuesday, April 4. The show hours will be Sunday, 6 to 8:30 PM, and Monday and Tuesday, 9 AM to 5 PM.

Companies will showcase services, instruments, books, computer hardware, scientific software, and an array of chromatographic, lab, and safety equipment. Technical personnel will give demonstrations, answer questions, and discuss your needs and interests.

Visit the revamped ACS Career Fair where you'll meet recruiters from top companies such as KAUST, Merck, Gilead, Georgia Pacific, and many more. Create an online profile and upload your résumé to our database, where recruiters can schedule in-person interviews with you. While at the Career Fair, network with potential employers and drop off your résumé, attend Career Pathways workshops, and meet with ACS Career Consultants.

Also, join us at the ACS booth in the middle of the exposition floor, where ACS staff members will present the many benefits, services, products, and merchandise offered by ACS.

Online exposition. The online exposition is a component within the exhibitor directory that enables attendees to view videos, press releases, brochures, and flyers of participating exhibitors. Access the online exposition at www.acs.org/sanfran2017 to learn more about exhibiting companies and download product information that meets your needs.

Free exhibitor workshops. Free workshops will be hosted by exhibitors on the exposition floor and in private rooms inside the Moscone Center. These workshops will introduce new products and services, build skills with specific tools and techniques, and highlight innovative applications that may improve your productivity. Register at www.acs.org/sanfran2017 to reserve your seat.

Presentations & special events. Join us on Sunday from 6 to 8:30 PM for the attendee welcome reception. Take an afternoon break on Tuesday from 3 to 5 PM and visit the exhibitors before the exposition closes. Access the mobile app, play a game with participating exhibitors, and win special prizes!

Internet & technology. Get free internet access and leave messages for one another at the meeting mail terminals located throughout the meeting. Enjoy free Wi-Fi service at designated areas in the Moscone Center.

Admission requirements & expo-only registration. Exposition admission is complimentary for all national meeting registrants; however, you are required to wear your badge. Individuals who want to visit the exhibits without registering for the technical component of the national meeting can obtain an expo-only badge for $60. Students with school identification can obtain an expo-only badge for $30. Registration can be handled online or in person at ACS attendee registration at the Moscone Center, North Lobby, and at our satellite registration areas at the Hilton San Francisco Union Square and Grand Hyatt San Francisco.

Exhibitor workshops

▶ Sunday, April 2

McGraw-Hill Education Learning Technologies Workshop. *Sponsor:* McGraw-Hill Education, 3:30 to 6 PM, Moscone Center, Room 250. Join McGraw-Hill Education to learn about the technology available to provide a unique learning experience for every student. Learn about ALEKS, Connect, SmartBook, and more!

▶ Monday, April 3

Teaching Laboratory Safety in the Undergraduate Chemistry Curriculum. *Sponsor:* Flinn Scientific Inc., 9:30 AM to noon, Moscone Center, Room 250. Many faculty and lab managers at undergraduate institutions often find it difficult to incorporate laboratory safety throughout their courses. Join us as we discuss how to integrate Flinn Scientific's new, engaging online student laboratory safety course and other valuable safety resources into your curriculum, and learn how these resources can be used to build a positive safety culture in your department and school.

Solutions for Innovation. *Sponsor:* JEOL USA, Inc., 9:30 AM to noon, Moscone Center, Hall B, Exhibitor Workshop Room 2. Ambient ionization mass spectrometry, scanning electron microscopy, and NMR structure: Learn how the latest innovations from JEOL integrate to enhance your science.

Advancing Material Science Research through Spectroscopy. *Sponsor:* ThermoFisher Scientific, 9:30 AM to noon, Moscone Center, Hall B, Exhibitor Workshop Room 1. New materials present new analytical challenges. Like many labs today, you need to stay ahead of the curve. This workshop will show you how FTIR and Raman spectroscopy can be applied in your lab, from the discovery of new materials to solving production problems and ensuring product quality. An industry expert will guide you through the latest trends and techniques to solve your toughest challenges.

How To Make LC Method Development and Peptide Mapping Simpler; Tackle Interferences with Advanced Triple Quadrupole Technology. *Sponsor:* ThermoFisher Scientific, 12:30 to 3 PM, Moscone Center, Hall B, Exhibitor Workshop Room 1.

Part I: How to Make LC Method Development and Peptide Mapping Simpler. Why should method development and peptide mapping be a challenge? Come and see how the latest developments in UHPLC afford method transfer from any LC with higher levels of reproducibility as well as resolution, and how when it comes to peptide mapping, we haven't just revolutionized one part of your workflow, we have revolutionized them all!

Part II: Tackle Interferences with Advanced Triple Quadrupole Technology.

Getting Real with Organic Chemistry. *Sponsor:* CAS, 12:30 to 3 PM, Moscone Center, Hall B, Exhibitor Workshop Room 3. Students are often left wondering, "Why should I care? How does this apply to me and my future career?" Professors are tasked with trying to connect the real world with the concepts taught in textbooks. Come hear how Chemistry Class Advantage™, a new digital learning solution from CAS, will help you teach the relevance of organic chemistry, as well as bridge the gap between memorization and conceptual understanding.

What Can NMR Do for the Chemist? Introduction to Experiments Beyond 1D Proton and Carbon Spectra. *Sponsor:* Bruker, 12:30 to 3 PM, Moscone Center, Room 250. With the modern NMR hardware and software available today, many of the experiments that used to be considered complicated and unnecessary are now quite routine and extremely beneficial to the chemist. This workshop will present an introduction to the alphabet soup of NMR experiments and explain what they are, what information can be obtained from them, and when to use one over another.
Topics will include the following:

- 2-D experiments commonly used for structure verification and elucidation such as COSY, TOCSY, HSQC, and HMBC.
- Examination of NMR active nuclei that might be of interest to the inorganic chemist and important things to consider when running these experiments.
- Brief introduction to magic angle spinning (HR-MAS and MAS) methods.
- A quick look into the possibilities of triple resonance biomolecular NMR.

Wiley Workshop: Technology in the Modern General Chemistry Classroom. *Sponsor:* Wiley, 12:30 to 3 PM, Moscone Center, Hall B, Exhibitor Workshop Room 2. Please join Wiley as we explore the trends and challenges of teaching general chemistry utilizing technology. Collaborate with your peers on what's working well and what's needed to improve student engagement and performance in this course. Share your feedback on a forthcoming, digital general chemistry project from Jason Kautz of the University of Nebraska, Lincoln. Lunch will be served.

Seamless Integration of 2-D to 3-D SAR to Guide Multi-Parameter Optimization. *Sponsor:* Optibrium Ltd., 3:30 to 6 PM, Moscone Center, Hall B, Exhibitor Workshop Room 1. This hands-on workshop in collaboration with BioSolveIT will explore how the combination of 2-D structure activity relationships (SAR) with 3-D structure-based design can be used to guide the optimisation of novel, high-quality compounds. Practical examples will be illustrated using both Optibrium's StarDrop and BioSolveIT's SeeSAR software.

McGraw-Hill Education Learing Technologies Workshop. *Sponsor:* McGraw-Hill Education, 3:30 to 6 PM, Moscone Center, Room 250. Join McGraw-Hill Education to learn about the technology available to provide a unique learning experience for every student. Learn about ALEKS, Connect, SmartBook, and more!

▶ Tuesday, April 4

Mass Spec Inlet Versatility to Maximize Productivity. *Sponsor:* Advion, 9:30 AM to noon, Moscone Center, Hall B, Exhibitor Workshop Room 1. With the daily need to analyze liquids, solids, vapor-phase compounds, and even air-sensitive samples, the ability to change sample inlets is indispensable. Learn how a single instrument can be adapted to each of these sample requirements and rapidly changed to accommodate back-to-back assays. Listen to users in the field speak about the innovative sample inlets that have cut down on prep and streamlined their everyday workflow.

Innovative HPLC Solutions to Increase Efficiency and Productivity in the Lab. *Sponsor:* Agilent Technologies, 9:30 AM to noon, Moscone Center, Hall B, Exhibitor Workshop Room 2. This workshop will focus on two topics: increasing productivity of biotherapeutic characterization in drug development and developing rapid HPLC methods with sufficient resolution and speed. Details of using novel HPLC instrumentation, software, and column chemistries will be discussed with time for Q&A with Agilent application scientists.

Engaging Millennials in the Classroom: A Panel Discussion with Dr. Neil Garg. *Sponsor:* Top Hat, 11 AM to noon, Moscone Center, Hall B, Exhibitor Workshop Room 3. With millennials demanding a more engaging learning experience, higher education instructors have had to evolve their teaching methods. Through this lively panel discussion moderated by Dr. Neil Garg, hear about tips and tricks that experts in the field are using to foster active learning both inside and outside the classroom.

Raman inVia Qontor and LiveTracking. *Sponsor:* Renishaw, 12:30 to 3 PM, Moscone Center, Exhibit Hall B, Exhibitor Workshop Room 3. inVia Qontor: Accurate Raman imaging of rough samples and/or those with complex surface topographies is now even faster with the new Renishaw ultra-fast Centrus detector. RA802 is a dedicated pharmaceutical analyser for imaging tablets to determine API size and distribution metrics from coatings and particles.

Advancing HPLC and GC Separations. *Sponsor:* Agilent Technologies, 12:30 to 3 PM, Moscone Center, Hall B, Exhibitor Workshop Room 2. QbD solutions for analytical method development in HPLC: Real-world data will be presented demonstrating unique ways to overcome analytical challenges. Plus, Agilent will provide an introduction to modern 2-D HPLC for multiple sample types. See the latest developments on this exciting workflow that you can implement today. Also witness a new era in gas chromatography, the Intuvo 9000 GC. Resolve your search for more ions by discovering the advantages of Agilent's GCMS solutions.

Vibrational Spectroscopy for Pharmaceutical Applications. *Sponsor:* Bruker, 12:30 to 3 PM, Moscone Center, Hall B, Exhibitor Workshop Room 1. The latest advances in the FTIR and Raman instrumentation and applications will be reviewed in this seminar, with a thorough discussion of the following topics:

- Contaminations in pharmaceutical products.
- Reverse engineering.
- Structural changes in proteins.
- Maximization of protein stability.
- Chemical imaging of biological tissues.

Examples of applications will include analysis of protein secondary structure, protein melting point determination, bacteria recognition, and analysis of tablets.

The seminar will include a live demonstration of the new Bruker FTIR microscope and a hands-on session. Attendees are encouraged to bring samples of interest for analysis during the hands-on session.

▶ Wednesday, April 5

Electrochemistry 101: Experiments for Use in Undergraduate Labs. *Sponsor:* Gamry Instruments, 9:30 AM to noon, Moscone Center, Room 250. Gamry Instruments has developed a complete laboratory course in electrochemistry for undergraduate facilities. The course includes experiments designed to engage students and provide them the opportunity to explore various disciplines in chemistry, such as analyte characterization, aqueous sample testing, digital simulations, electrosynthesis, sensors, batteries, and corrosion. The complete educational bundle includes the instrument, teaching and student manuals with eleven separate experiments, as well as all cells and electrodes needed to complete a semester course for 20 students. This workshop will be an introduction to all aspects of the course material via the performance of select experiments.

Structure-Based Drug Design and Ligand Modification. *Sponsor:* Chemical Computing Group, 3:30 to 6 PM, Moscone Center, Room 250. The course covers MOE applications for interactive, structure-based design. Examples include active site visualization, protein-ligand contact analysis, and ligand modification/optimization in the receptor pocket. Conformational searching and analysis of the ligand to assess ligand flexibility will be discussed. A protocol for aligning and superposing protein complexes in the context of protein selectivity will be studied.

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ACS Career Navigator, 1155 16th Street, NW, Washington, DC, United States 20036, 202-872-6031, e-mail: k_redmond@acs.org, Internet: https://www.acs.org/content/acs/en/careers/career-navigator.html **725**

ACS Committee on Chemical Health & Safety, P.O. Box 152329, San Diego, CA, United States 92195, 619-990-4908, Internet: www.acs.org/safety *The ACS Committee on Chemical Safety and the Division of Chemical Health and Safety provide this opportunity for you to learn more about chemical safety within the ACS and to have chemical safety experts answer your questions.* **1125**

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PolyK Technologies, LLC
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dielectric constant test vs temperature and frequency
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Proton OnSite
Booth # 401
G200, G400, G600, G600-HP
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T421M
A2,A5,A10,A20,A30

Rapp Polymere GMBH
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Regis Technologies
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Whelk-O 1
IAM HPLC Columns
IAM Calibration Mix
3.0 N HCl in n-Butanol
D-Luciferin

Semichem
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AMPAC
Codessa

Sheldon Manufacturing Inc.
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Bactron
SMO

Software for Chemistry & Materials
Booth # 721
Quantum ESPRESSO with integrated user interface
Faster visualization of large systems
non-linear optical properties: SEHRS, TPA, THG
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StellarNet Inc.
Booth # 1425
Handheld Radiometer
NIR Material Composition Analyzer
Raman Material ID Analyzer

Strem Chemicals
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46-0935: Mor-Dalphos Palladacycle Gen. 3
77-6580: Iridium Photocatalyst [500295-52-3]
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96-4050: Biocatalyst Kit - Immobilized Enzymes

TA Instruments
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WPrep-2XY
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HF2LI Lock-in Amplifier
UHFLI Lock-in Amplifier

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SY021760 5-Chloro-[1,2,4]triazolo[4,3-a]pyridine
SY021954 (S)-3-Aminochroman Hydrochloride
SY020529 (S)-2-Aminobutanamide Hydrochloride
SY020391 (R)-(+)-1-Benzyl-3-(Boc-amino)pyrrolidine

Ace Glass, Inc.
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Bench Top Reactor Swing Latch Clamp
50L Low Profile Reactor with Heat Seal
Dual Bench Top Reactor Stand
Ace Glass Temperature Controller Lineup
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ACS Member Insurance Program
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Advanced Polymer Materials Inc.
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functional polymers
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poly(ethylene glycol) block copolymers

AgileBio LLC - LabCollector
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Nanalysis Corp.
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Prometheus

COMPANIES LISTED BY BROAD CATEGORIES

A more detailed product listing can be found by visiting the National Exposition at www.acs.org/sanfran2017. In addition to Meeting Mail stations in the convention center, product categories, along with companies supplying the products, can be searched using this free service.

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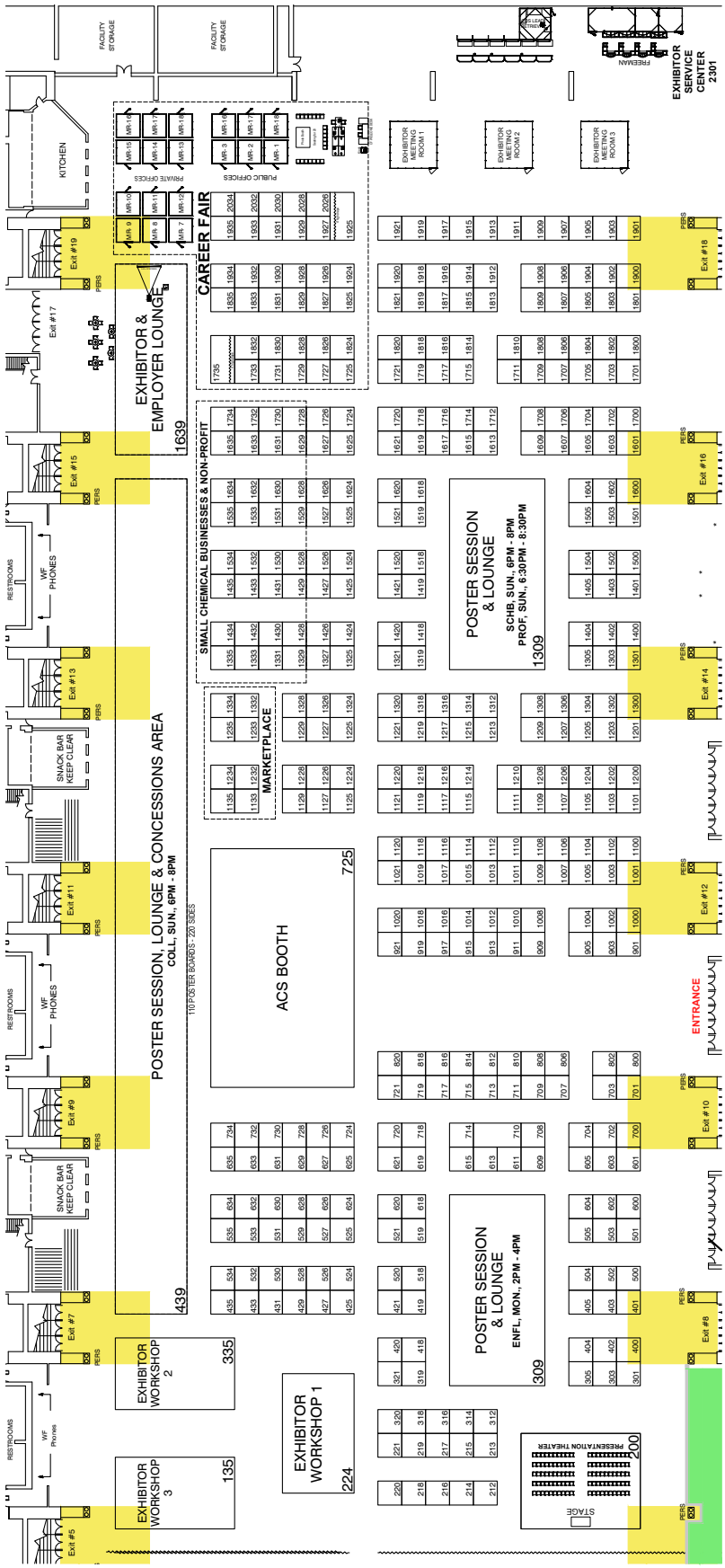
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SUNDAY, 6PM - 8:30PM
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