



ACS MEETING NEWS

Stalled. Regrouped. Returned.

What a difference 3 years make. As COVID-19 grabbed hold of the global community in 2020, chemists in the US and across the world canceled airline and hotel reservations and had to forego plans to connect with colleagues in San Francisco at ACS Fall 2020. But all was not lost. The COVID-19 pandemic motivated ACS to expand its meeting portfolio and host its first fully virtual meeting and expo that August. This Aug. 13–17, ACS returns to San Francisco for the in-person component of ACS Fall 2023 while continuing with a virtual platform.

With the theme of “Harnessing the Power of Data,” ACS Fall 2023 will be an interactive experience for the combined thousands of in-person and virtual attendees. Students learning about the many aspects of chemistry, academicians sharing their knowledge

of chemistry, researchers exploring the ever-changing impact of chemistry on daily life, and exhibitors of innovative technologies to better share the science of chemistry

will be among the attendees. The meeting will offer diversity of content through oral sessions, poster presentations, and special events. All will be complemented by a wide-ranging number of networking opportunities sponsored by divisions and ACS.

If career development is your focus, ACS Fall 2023 comes with an extensive list of opportunities to shape your decision-making. Whether you have not started your career path or are looking into new employment opportunities in chemistry, you can benefit from the meeting’s student-specific events, professional and leadership development courses, and career workshops.

More online

To download a PDF of the preliminary program for the hybrid ACS 2023 meeting in San Francisco from Aug. 13–17, visit cenm.ag/fall2023.

Program by the numbers

- ▶ Original programming by **33** technical divisions and **6** committees
- ▶ **12,415 accepted papers**, including 8,457 oral presentations, 3,953 poster presentations, and 1,057 Sci-Mix presentations
- ▶ For the half-day sessions, **820** oral sessions (765 hybrid and 55 virtual), **249** poster sessions (171 in-person and 78 virtual), and **42** Sci-Mix sessions (28 in-person and 14 virtual)
- ▶ Online technical program available on **July 20, 2023**

General meeting information

If you are a presenter

SciMeetings archive and publishing options

For a wider audience reach, consider uploading your abstract to SciMeetings. Benefits include:

- ▶ A citable DOI
- ▶ An open access license
- ▶ The ability to add supplemental information to your upload
- ▶ Personal analytics to track engagement
- ▶ Increased discoverability on SciFinder, Google Scholar, and the ACS Publications platform

You can find more information at the SciMeetings website.

Registration

The first step to taking advantage of all that ACS Fall 2023 has to offer is to register. Offered in hybrid format, ACS Fall 2023 gives you registration options.

All attendees must register. Participating in the full meeting, you must register; attending one day, you must register; giving an oral presentation, you must register; presenting a poster, you must register; exhibiting in the expo hall, you must register.

Presenters who fail to register for the meeting will have their abstracts withdrawn from the official meeting program, technical programming archive, and CAS database.

Join ACS and save

Not a member of ACS? Join before you register and save up to \$400. As an ACS member, you can book your housing at the same time that you register for the meeting.

Sponsored speakers should contact their symposium organizers or division program chairs to clarify the terms of their invitation and to determine who will complete the meeting registration. Presenters who fail to register for the meeting will have their abstracts withdrawn from the official meeting program, technical programming archive, and CAS database.

Hybrid registration (in-person and virtual)

- ▶ Attend in-person only, live hybrid, and live virtual sessions
- ▶ Live in-session Q&A opportunities
- ▶ In-person networking opportunities
- ▶ Full access to all in-person, virtual, and on-demand sessions included in your full registration
- ▶ 24/7 access to programming; on-demand content available through Sept. 1, 2023
- ▶ Enjoy all that San Francisco has to offer in August

Virtual registration

- ▶ Attend live hybrid and 100% live virtual sessions via the meeting platform
- ▶ 24/7 access to programming; on-demand content available through Sept. 1, 2023
- ▶ Interactive sessions with live chats and Q&A
- ▶ Digital networking opportunities to connect with others without leaving your home

Your meeting registration gives you entry to a range of programming activities:

- ▶ Exposition Hall and Career Navigator LIVE!
- ▶ Technical symposia
- ▶ Scientific poster sessions
- ▶ Special lectures, workshops, and events

Presentations uploaded for on-demand access will be available to view within 24 h after the live presentation time. These sessions will remain available for all registrants through Sept. 1, 2 weeks after the live event.

For more details on the attendance options, go to the meeting's Ways to Attend page at cenm.ag/attendfall2023.

International attendees

International attendees must have a valid visa to enter the US. Detailed information on the process to obtain a visa is available in the "Attendee Resource" section on the registration page of the meeting website at www.acs.org/meetings.

If you have specific questions about your visa application, please email nationalmeetings@acs.org.

All international attendees, including

those from Canada and Mexico, must pick up their registration materials on-site.

On-site registration

Registration for ACS Fall 2023 will remain open through the last day of the meeting. There will be two on-site registration sites.

Satellite registration: Hilton San Francisco Union Square, Golden Gate Foyer, lobby level

Hours of operation (in Pacific Time):

- ▶ Saturday, Aug. 12, 7:00 a.m.–5:00 p.m.
- ▶ Sunday, Aug. 13, 7:00 a.m.–5:00 p.m.
- ▶ Monday, Aug. 14, 7:00 a.m.–5:00 p.m.
- ▶ Tuesday, Aug. 15, 7:00 a.m.–5:00 p.m.
- ▶ Wednesday, Aug. 16, 7:00 a.m.–noon

REGISTRATION CATEGORY	IN PERSON/VIRTUAL	VIRTUAL ONLY
MEMBERS		
Member or society affiliate	\$399	\$199
Student	99	49
Emeritus or retired	199	99
50-year or unemployed	0	0
NONMEMBERS		
Regular	\$799	\$399
Student	199	149
ONE-DAY ACCESS		
ACS member, society affiliate, emeritus, or retired (premium package)	\$199	\$99
ACS member (standard package), community associate (basic package), or nonmember	399	199
K-12 TEACHERS		
AACT member and/or ACS member (standard or premium package)	\$99	\$49
ACS community associate (basic package) or nonmember	199	149
GUEST OF FULL CONFERENCE REGISTRANT		
Guest of full conference registrant	\$99	N/A
ACS community associate (basic package) or nonmember	199	149
EXPO & CAREER NAVIGATOR LIVE!		
Expo & Career Navigator LIVE!	\$10	N/A

Main registration: Moscone Center, South Lobby

Hours of operation (PT):

- ▶ Saturday, Aug. 12, 1:00 p.m.–6:00 p.m.*
- ▶ Sunday, Aug. 13, 7:00 a.m.–8:00 p.m.
- ▶ Monday, Aug. 14, 7:00 a.m.–9:00 p.m.
- ▶ Tuesday, Aug. 15, 7:00 a.m.–8:00 p.m.
- ▶ Wednesday, Aug. 16, 7:00 a.m.–8:00 p.m.
- ▶ Thursday, Aug. 17, 7:00 a.m.–noon

***Exhibitor registration** is available Saturday, Aug. 12, 7:00 a.m.–6:00 p.m. at main registration, Moscone Center, South Lobby.

Ticketed social and special events

Organizers have planned a variety of social and special events that will take place during the meeting. Event participation is open to all interested meeting attendees. If you did not purchase your ticket when you registered, you can upgrade your registration at any time through the registration resource center linked in your registration confirmation email.

Tickets will remain on sale until the evening before the event, if available. All tickets are sold on a first-come, first-serve basis. Remember, ACS Fall 2023 is a cashless meeting, so all payments must be made by credit card.

Registration cancellation

You can cancel your registration and social events or request a refund before the meeting in accordance with the ACS registration cancellation policy.

- ▶ Registration cancellations received by July 31, 2023, are entitled to a full refund, less a \$50 administrative fee.
- ▶ Cancellation notices must be submitted to the ACS registration customer service center by phone or email by July 31, 2023.
- ▶ Contact the ACS registration customer service center Monday through Friday, 9:00 a.m.–5:00 p.m. (ET) at 800-251-8629 (U.S. registrants), 508-743-0192 (international registrants), or email acs@xpressreg.net.
- ▶ All refunds are issued via the same

method used for payment.

- ▶ Refunds are processed within 30 days after the conclusion of the meeting.
- ▶ Requests for registration refunds, upgrades, or category changes made after July 31, 2023, will not be honored.

What to do before the meeting

Virtual attendees: Explore the meeting virtual platform

- ▶ Log in using the ACS ID and credentials that you used to register for the meeting.
- ▶ Take a tour of the virtual platform.
- ▶ Clear your browser cache.
- ▶ Prepare your device to access Zoom; if Zoom is blocked on your device, contact ACS Membership Services at service@acs.org.
- ▶ Go to Image Resources to find Zoom backgrounds, customizable meeting graphics, a presentation template, and more.

In-person participants: Things to do before you arrive in San Francisco

- ▶ Download the ACS Meetings & Events mobile app for quick access to the ACS Fall 2023 program using the included QR code.

▶ On the app, you can build your on-site schedule, search for exhibitors, and navigate using the MAPS feature.

▶ The mobile app syncs one-way with the virtual meeting platform itinerary. (Build your itinerary in the virtual platform first before using the mobile app on site.)

- ▶ Registrants can use their ACS ID to do a one-time sync between their virtual platform schedule and the mobile app.

Register your little ones for Camp ACS!, the society-sponsored, no-cost onsite childcare.

- ▶ Available for children 3 years or older.
- ▶ Pre-registration is required by Aug. 4; go to the meeting's Camp ACS! page for more details.



Venue

The Moscone Center will be the primary venue for ACS Fall 2023. Located in the heart of the SOMA/Yerba Buena district, the Moscone Center is surrounded by world-class dining, shopping, and cultural destinations.

Travel

The San Francisco International Airport is located less than 15 miles from the Moscone Center.

San Francisco International Airport (SFO)

- ▶ Airport phone: 650-821-8211
- ▶ Major airlines serving SFO include American Airlines, Alaska Air, Southwest, and United Airlines.

Parking

- ▶ Information on parking at San Francisco International Airport can be found at flightsfo.com/passengers/parking
- ▶ Information on parking at the Moscone Center can be found at moscone.com/directions-and-parking-moscone-center

Traveling to meeting venues

ACS shuttle bus

Most of the official hotels are within walking distance of the Moscone Center. ACS will provide complimentary shuttle bus service between the convention center and official hotels that are not within walking distance.

Review the Campus Map to familiarize yourself with the shuttle bus schedules and technical session locations. Also noted on the map are hotels within walking distance of the Moscone Center.

On-site attendee health and safety

The health and safety of meeting attendees, exhibitors, and staff is the number one priority for ACS. As COVID-19 and its variant strains continue to hover over our daily activities, ACS will continue to follow the guidance and requirements of the CDC, California Department of Public Health, San Francisco Department of Public Health, the Moscone Center, and other local regulations regarding COVID-19 safety practices.

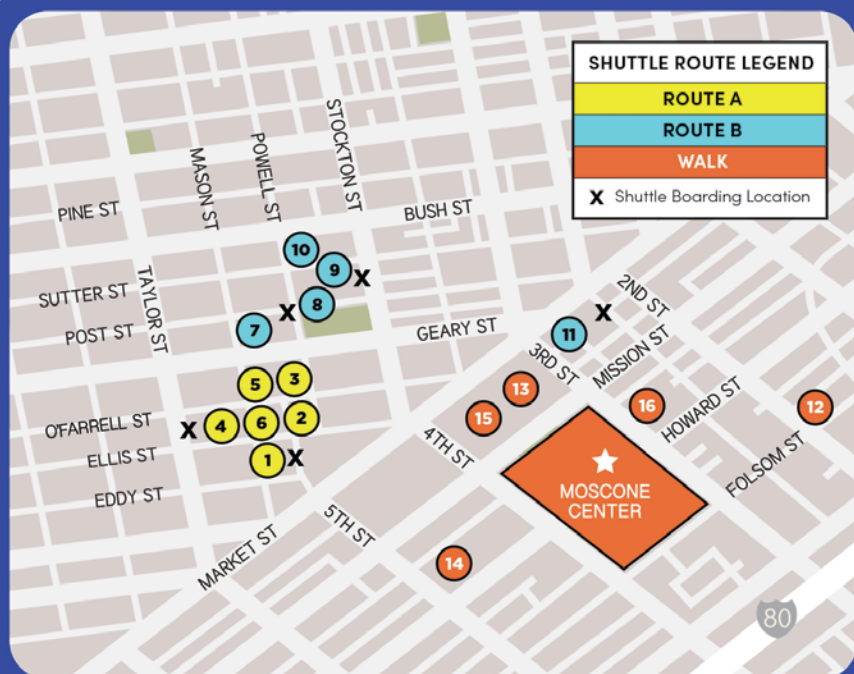
Though ACS continues to take every reasonable precaution to keep in-person attendees safe, ACS cannot fully

Canceling your meeting registration will not automatically cancel your housing reservation; however, ACS reserves the right to cancel the room(s). To cancel your hotel room(s), please contact acshousing@conferencedirect.com. ACS will not reimburse cancellation or no-show fees charged by the hotel.

ACS FALL 2023

HARNESSING THE POWER OF DATA

#ACSFall2023



SHUTTLE HOURS OF OPERATION

SUNDAY, AUGUST 13

7:00 AM – 10:00 AM.....Every 10 minutes
10:00 AM – 4:00 PM.....Every 30 minutes
4:00 PM – 8:00 PM.....Every 8 minutes
8:00 PM – 10:00 PM.....Every 10 minutes

MONDAY, AUGUST 14

7:00 AM – 10:00 AM.....Every 8 minutes
10:00 AM – 4:00 PM.....Every 30 minutes
4:00 PM – 8:00 PM.....Every 8 minutes
8:00 PM – 11:00 PM.....Every 10 minutes

TUESDAY, AUGUST 15

7:00 AM – 10:00 AM.....Every 8 minutes
10:00 AM – 4:00 PM.....Every 30 minutes
4:00 PM – 8:00 PM.....Every 8 minutes
8:00 PM – 10:00 PM.....Every 10 minutes

EVENING SPECIAL EVENT

10:00 PM – 12:00 AM.....Service from Marriott Marquis to Rte A, Rte B, Walking Hotels

WEDNESDAY, AUGUST 16

7:00 AM – 10:00 AM.....Every 10 minutes
10:00 AM – 4:00 PM.....Every 30 minutes
4:00 PM – 10:00 PM.....Every 10 minutes

THURSDAY, AUGUST 17

7:00 AM – 1:00 PM.....Every 15 minutes

MAP NUMBER	HOTEL AND SHUTTLE BOARDING LOCATION	SHUTTLE ROUTE
1	HILTON PARC 55 • (X) Shuttle Boarding – Curbside on Cyril Magnin St. near entrance • Technical Sessions – CHAS, HIST, NUCL, PROF, TOXI, WCC	A
2	HOTEL ABRI • (X) Shuttle Boarding – Use the Hilton Parc 55 stop on Cyril Magnin St.	A
3	HANDLERY UNION STATION HOTEL • (X) Shuttle Boarding – Use the Hilton Parc 55 stop on Cyril Magnin St.	A
4	HILTON SAN FRANCISCO UNION SQUARE • (X) Shuttle Boarding – Curbside on the Taylor Street side of the hotel • Technical Sessions – CMA	A
5	KING GEORGE • (X) Shuttle Boarding – Use the Hilton stop on Taylor Street	A
6	HOTEL NIKKO SAN FRANCISCO • (X) Shuttle Boarding – Use the Hilton stop on Taylor Street • Technical Sessions – CINF	A
7	WESTIN ST. FRANCIS • (X) Shuttle Boarding – Curbside on Post Street	B
8	BEACON GRAND • (X) Shuttle Boarding – Use the Westin St. Francis stop on Post Street	B
9	GRAND HYATT SAN FRANCISCO • (X) Shuttle Boarding – Curbside on Stockton St.	B
10	MARRIOTT UNION SQUARE • (X) Shuttle Boarding – Use the Grand Hyatt stop on Stockton St.	B
11	PALACE HOTEL • (X) Shuttle Boarding – Curbside near entrance on New Montgomery St.	B

MAP NUMBER	HOTEL AND TECHNICAL SESSIONS	SHUTTLE ROUTE
12	THE CLANCY HOTEL	WALK
13	HYATT REGENCY SOMA	WALK
14	INTERCONTINENTAL SAN FRANCISCO	WALK
15	SAN FRANCISCO MARRIOTT MARQUIS • Technical Sessions – BIOT, POLY, PMSE	WALK
16	W SAN FRANCISCO	WALK



MOSCONE CENTER

• Technical Sessions – AGFD, AGRO, ANYL, BIOL, BMGT, CARB, CATL, CELL, CHAL, CHED, COLL, COMP, COMSCI, CTA, ENFL, ENVR, FLUO, GEOC, I&EC, INOR, MEDI, MPPG, ORGN, PHYS, PRES, SCC, SCHB, YCC



For all shuttle inquiries and wheelchair assistance, please call SEAT Planners: 619-952-7012

eliminate all risks of harm to attendees or guarantee their safety, especially from risks posed by COVID-19 or its variant strains. Ultimately, you are responsible for your own safety.

ACS Fall 2023 will be a fulfilling and stimulating experience. Our goal is to make sure you enjoy your time in San Francisco.

Participants attending in person will see the official San Francisco Welcome Ambassadors throughout the city. They are ready to help improve your visitor experience. They are knowledgeable and can help you find an attraction or make restaurant recommendations. You can find them out and about, 7 days a week, from 8:00 a.m.–8:00 p.m. in some of San

Francisco’s most popular neighborhoods, including Chinatown, North Beach, and SoMa. Just look for their bright orange jackets—the same color as the Golden Gate Bridge!

As a reminder, no city or town is exempt from the problem of crime. Be mindful of your surroundings as you enjoy the meeting and San Francisco. Follow the same safety precautions in San Francisco that you would at home.

For emergencies such as danger to life, property, or environment, a crime in progress, or medical emergencies, call 911, available 24/7. For any non-emergency assistance such as noise complaints, loitering, wellness checks, etc., call 415-553-0123, available 24/7.

The Attendee Safety Plan is detailed with information on attendee health and safety on site.

Attendee engagement

ACS Fall 2023 is anchored in the society’s commitment to promote chemistry and the chemistry enterprise in a manner that is inclusive, ethical, and safe. The meeting will offer an engaging experience for attendees at all educational and professional levels and in all disciplines of chemistry. Chemistry and mechanical learning will be a consistent focus of exploration within the theme of “Harnessing the Power of Data.”

Program highlights:

DATE	TIME (PT)	EVENT	LOCATION
Sunday, Aug. 13	2:00 p.m.–4:00 p.m.	It’s About Trust in Science and Scientists Workshop	Moscone Center – Room 211, South Building
	5:00 p.m.–7:00 p.m.	ACS DEIR Reception Celebrating SACNAS’s 50th Anniversary	Hilton San Francisco Union Square – Continental Ballroom 5-6
Monday, Aug. 14	8:00 a.m.–noon	Effect of AI on Science: Classroom to Publication to Boardroom and Panel Discussion	Moscone Center – Room 24/25, South Building
	8:00 a.m.–11:00 a.m.	The POWER of Chemistry: Opportunities and Challenges and Panel Discussion Cosponsors: AGFD, AGRO, ANYL, BIOL, BIOT, CARB, CHAL, CHAS, CHED, COMP, ENVR, I&EC, INOR, MEDI, ORGN, PMSE, POLY & TOXI	Moscone Center – Room 152, South Building
	9:00 a.m.–11:55 a.m.	ACS Presidential and Kavli Symposium Toward Autonomous Continuous-Flow Chemical Discovery and Processing Sponsor: INOR Cosponsors: PRES, BMGT, MPPG & ORGN	Moscone Center – Room 151, South Building
	9:00 a.m.–11:55 a.m.	ACS Presidential and Kavli Symposium Toward Autonomous Continuous-Flow Chemical Discovery and Processing Sponsor: INOR Cosponsors: PRES, BMGT, MPPG & ORGN	Moscone Center – Room 151, South Building
Tuesday, Aug. 15	8:00 a.m.–5:50 p.m.	Mentorship, ACS, and Us Cosponsors: CELL, ETHX, M ACS Presidential Symposium on Machine Learning for the Chemical Sciences and Engineering Sponsor: MPPG and The CAMille and Henry Dreyfus Foundation Cosponsors: PRES, BIOT, CINF & COMP PPG & PROF	Moscone Center – Room 152, South Building
	10:00 a.m.–3:55 p.m	ACS Presidential Symposium on Machine Learning for the Chemical Sciences and Engineering Sponsor: MPPG and The CAMille and Henry Dreyfus Foundation Cosponsors: PRES, BIOT, CINF & COMP	Moscone Center – Room 24/25, South Building
	2:00 p.m.–5:00 p.m.	Chemical Angels Network Innovation Track and Panel Discussion Sponsor: BMGT Cosponsor: PRES	Moscone Center – Hall B/C, Expo Theater
	5:30 p.m.–7:30 p.m.	ACS Presidential LGBTQ+ Reception	Hotel Nikko San Francisco – Golden Gate
Wednesday, Aug. 16	2:00 p.m.–5:25 p.m.	Mentorship, ACS, and Us Cosponsors: CELL, ETHX, MPPG & PROF	Moscone Center – Room 152, South Building

ACS Kids Zone

Begin the meeting a day early. Bring your inner kid to the Children's Creativity Museum (221 4th St, San Francisco, CA 94103) on Saturday, Aug. 12, 11:00 a.m.–1:00 p.m.. At ACS Kids Zone, you can engage with residents of San Francisco. This will be an afternoon of chemistry and fun. Activities will include Cloudy with a Chance of Clear Color, Make-and-Take Lotion, Connect with Slime, and Fruit Juice Sleuth. Visit <http://www.acs.org/kidszone> for more information.

ACS member lounge

The ACS member lounge is a must visit for all during the meeting. The place to chat with friends, take a break, refuel, and much more.

Moscone Center – South Lobby

ACS member lounge hours

- ▶ Sunday, Aug. 13–Wednesday, Aug. 16: 8:00 a.m.–6:00 p.m.
- ▶ Thursday, Aug. 17: 8:00 a.m.–noon

Zumba with immediate past president Angela Wilson

A fun and invigorating way to start your meeting

- ▶ Sunday, Aug. 13, 7:00 a.m.–8:00 a.m.
- ▶ Hilton San Francisco Union Square, Franciscan C-D

Plenary Session: “Harnessing the Power of Data”

- ▶ Sunday, Aug. 13, 2023, 5:00 p.m.–7:00 p.m.
- ▶ Moscone Center, Room 24/25, South Building

ACS Fellows ceremony

- ▶ Monday, Aug. 14, 2:00 p.m.–3:00 p.m.
- ▶ Hilton San Francisco Union Square, Grand Ballroom B

The Kavli Foundation Emerging Leader in Chemistry Keynote Lecture

- ▶ Monday, Aug. 14, 5:00 p.m.–6:00 p.m.
- ▶ Moscone Center, Room 24/25, South Building

The Fred Kavli Innovations in Chemistry Keynote Lecture

- ▶ Tuesday, Aug. 15, 5:00 p.m.–6:00 p.m.
- ▶ Moscone Center – Room 24/25, South Building

25th Annual ChemLuminary Awards

- ▶ Tuesday, Aug. 15, 8:00 p.m.–midnight
- ▶ San Francisco Marriott Marquis, Salon 8-9

The ChemLuminary Awards banquet and ceremony is an opportunity for ACS to say, “Thank you.” to its volunteers.

The ceremony is a primary platform to recognize local sections, technical divisions, regional meetings, and international chemical sciences chapters for their tireless efforts and work in promoting chemistry and the chemical sciences. The event will begin with a poster session and reception at 8:00 p.m., and the awards presentation will follow at 9:00 p.m. The after party from 10:00 p.m. until midnight will close out the festive evening.

Come out to celebrate and recognize our volunteers together!

Sci-Mix posters virtual and in-person

- ▶ Moscone Center, Hall B/C, South Building
- ▶ Monday, Aug. 14, 8:00 p.m.–10:00 p.m.

Expo hall

The expo hall is the place for connecting. Catch up with friends over a cup of coffee, learn about new tools in the study and research of chemistry, take advantage of the professional development coursework, and consult with professionals about your career path. The expo hall will also be home for the Industry Thought Leader sessions, where attendees and exhibitors can engage in stimulating discussions on trends in the chemistry enterprise.

Moscone Center, Hall B/C, South Building
Expo show hours

- ▶ Monday, Aug. 14: 11:00 a.m.–5:00 p.m.
- ▶ Tuesday, Aug. 15: 11:00 a.m.–5:00 p.m.
- ▶ Wednesday, Aug. 16: 10:00 a.m.–2:00 p.m.

Exclusive networking hours:

ACS will continue the practice of exclusive networking hours from noon–2:00 p.m.. in the expo hall. Join friends in the expo hall and catch up while enjoying complimentary snacks and beverages.

Exhibitors

It is not too late to join the list of exhibitors at ACS Fall 2023. Nowhere else can you find and build relationships with so many of the industry's top thought leaders and decision makers. ACS Fall 2023 makes it easy to showcase your brand and make impactful connections. As an exhibitor, you will have a prime opportunity to connect with an audience of more than 10,000 chemistry professionals, including many with purchasing power.

Visit the Exhibitors & Sponsors page at www.acs.org/Fall2023 to learn more about how to boost your exposure.

Exhibitors move-in

- ▶ Saturday, Aug. 12: 8:00 a.m.–4:30 p.m.
- ▶ Sunday, Aug. 13: 8:00 a.m.–4:30 p.m.

Exhibitors move-out

- ▶ Wednesday, Aug. 16: 2:00 p.m.–8:00 p.m.
- ▶ Thursday, Aug. 17: 8:00 a.m.–noon

Career development

There is an overflow of opportunities for career development at ACS Fall 2023. ACS offers comprehensive tools that allow you to explore varying career options, find employment opportunities in your field, and develop your skills to grow in your career.

Career development courses and workshops

The ACS Institute, ACS Leadership Development, and ACS Career Pathways™ programs will offer courses and workshops in person at the ACS Fall 2023 meeting. You can review the available offerings at www.acs.org/Fall2023CareerDevelopment.

Courses and workshops can be added during registration. Current meeting registrants can access the Registration Resource Center using the link and badge number provided in the registration confirmation email.

ACS Career Navigator LIVE!

Career Navigator LIVE! (CNL) provides job seekers and businesses with a more thorough version of a standard “résumé drop” fair, ensuring hiring managers have access to the top talent they need to fill openings. These events give pre-registered job searchers the chance to submit their résumés and potentially meet with recruiters from top chemical companies. ACS members may upload résumés to the Career Navigator LIVE! database to apply for open positions. Our diverse team of consultants provides personalized career advice through résumé and LinkedIn profile reviews, mock interviews, and general career counseling sessions.

ACS members with a premium package can book an appointment with a certified ACS Career Consultant. CNL also offers free professional headshots sponsored by C&ENJobs throughout the event days—Monday to Wednesday. No appointment is necessary.

Board and council meetings

ACS Board of Directors

The ACS Board of Directors meeting, open to members who wish to participate, will be held at the Moscone Center, Room 24/25, South Building on Sunday, Aug. 13, noon–1:00 p.m.

Join the ACS Board in San Francisco as they hold a conversation with Nobel laureate Carolyn Bertozzi.

ACS Council

The ACS Hybrid Council meeting will begin at 8:00 a.m., Wednesday, Aug. 16 at the Hilton San Francisco Union Square Hotel, Grand Ballroom A/B. A continental breakfast for councilors will precede the meeting and begin at 7:00 a.m. Councilors are asked to arrive at the meeting room beginning at 7:00 a.m. to ensure their personal devices can connect to the meeting and vote, keeping in mind that the meeting starts promptly at 8:00 a.m.

Space will be available for ACS members and nonmembers to observe the Council in action. We hope that many will take advantage of this opportunity to learn firsthand about the society's operation. Alternate councilors and division and local section officers are particularly urged to attend. Please contact the Office of the Secretary (secretary@acs.org) for the link to join the Council meeting virtually as an observer.

Committee meeting and Councilor Caucus information

The listing of the committees and Councilor Caucuses that plan to meet in the fall can be found at cenm.ag/governancemeetings.

ACS governance committees generally operate in one of three formats described below. These formats can change during the course of a meeting as discussions and deliberations change. It is the responsibility of the committee chair and the staff liaison to ensure that only the appropriate people are present during a meeting.

Open meetings

Any ACS member may attend an open meeting. At these meetings, members are encouraged to voice concerns, issue compliments, offer suggestions, and express interest in or raise questions about matters over which the committee has purview. The assumption is that participation is welcomed and will be orderly and courteous. Only committee members may vote.

Closed meetings

The committee chair must declare any executive meeting closed when confidential or sensitive personnel, financial, or legal matters of the society are discussed. At that point, only officially appointed or elected committee members, associates, consultants, staff liaisons, and the appointed Committee on Committees (ConC) liaison shall remain in the meeting. Others may stay in the meeting at the discretion of the chair. Once these discussions have been completed, the committee should return to executive mode.

Executive meetings

Attendance and participation are limited to officially appointed or elected committee members, associates, advisers, consultants, staff liaisons, and the appointed ConC liaison. Liaisons from other groups and both ex officio and elected councilors may attend; active participation by these groups is at the invitation of the chair. Only committee members may vote.

If you cannot attend the particular committee meeting of interest or for further information, contact the committee directly using the corresponding email address, which can be found at cenm.ag/governancemeetings.

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recruit.cenjobs.org**

Presidential Events

PRES

Judith Giordan, program chair

Moscone Center	S	M	Tu	W	Th
Effect of AI on Science: Classroom to Publication to Boardroom		A			
The POWER of Chemistry: Opportunities and Challenges		D			
Mentorship, ACS, and Us **			D	P	
History of Energy and Fuels: Opportunities and Challenges *(HIST)	P	D			
ACS Presidential and Kavli Symposium Toward Autonomous Continuous-Flow Chemical Discovery and Processing *(INOR)		P			
Emerging Therapeutics Developments at the Intersection of Biology and Chemistry *(MPPG)			A		
ACS Presidential Symposium on Machine Learning for the Chemical Sciences and Engineering *(MPPG)			D		

Multidisciplinary Program Planning Group

MPPG

Kenneth Merz, program chair

Moscone Center	S	M	Tu	W	Th
Harnessing the Power of Data Plenary Session	E				
C&EN's Talented 12		A			
The Kavli Foundation Emerging Leader in Chemistry Keynote Lecture		P			
ACS Nano Lectureship Award			A		
Emerging Therapeutics Developments at the Intersection of Biology and Chemistry **			A		
ACS Presidential Symposium on Machine Learning for the Chemical Sciences and Engineering **			D		
The Fred Kavli Innovations in Chemistry Keynote Lecture			P		
ACS Presidential and Kavli Symposium Toward Autonomous Continuous-Flow Chemical Discovery and Processing *(INOR)		A			
Mentorship, ACS, and Us *(PRES)			D	P	
COMP Poster Session *(COMP)			E	E	
Structural Biology and Harnessing the Power of Data *(BIOL)				A	

Division of Agricultural and Food Chemistry

AGFD

Jonathan Beauchamp, Jason Soares, program chairs

Moscone Center	S	M	Tu	W	Th
Chemistry of Wine	D	A			
Food Security: The Role of Alternative Protein Sources in Addressing World Hunger **	D	P			
Methods, Data, and their Usage Towards Solving the Food Allergy Problem	D				
General Posters	E		P		
Forever Chemicals in the Environment, Distribution and Risk **		A			
Advances in Food Chemical Informatics, Knowledge Bases and Databases		A			
Biotechnology and Synthetic Biology for Sustainable Foods, Food Ingredients, and Flavor **		D			
Bioproducts from Biomass		P	A		
Virtual Graduate Students Symposium in Asia-Pacific Region on Agricultural and Food Chemistry		P	P		
Artificial Intelligence (AI) Applications for Food and Agriculture **		P			
AGFD Sci-Mix		E			
JAFCS Best Paper and AGFD Young Scientists Awards Symposium			A		
ACS Microbiome Consortium Kick off Symposium			D	A	A
Nutraceutical Lipids, Proteins and Biopeptides			D		
Sustainable Agriceuticals **			P	A	A
Award for the Advancement of Application of Agricultural and Food Chemistry in honor of Liangli (Lucy) Yu			P		
Renewable Polymer Materials: Preparation, Processing, Application, and Disposal				D	A
Chemical Intervention Technology to Improve Microbial Stability of Food **				D	
Food Toxicants: Occurrence, Detection, Formation Mechanism and Mitigation **				P	A
Oat Bioactives and their Health Benefits					A
Smart Food Safety **					A
General Papers					A

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Division of Agricultural and Food Chemistry (continued)

AGFD

Jonathan Beauchamp, Jason Soares, program chairs

Moscone Center	S	M	Tu	W	Th
Residue Analysis of Plant Protection Products - Advancements in Analytical Methodologies Over the Decades *(AGRO)	A		P		
Wildfires: Chemistry and Environmental Impacts on Air, Water, and Soil *(ENVR)	A			P	
Materials Development to Address Environmental and Sustainability Challenges *(ENVR)	D	D	D	P	
Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals *(AGRO)	D		P		
Technological Solutions to Address Food Insecurity, Trade Challenges and Food Waste *(AGRO)	D		P		
Biorational Technologies for Control of Invasive Pests in a Changing Climate *(AGRO)	P		P		
Agrochemical Formulations and Application Technology: Challenges and Innovation *(AGRO)	P		P		
Epidemiology: A Growing Field in Agrochemistry and Agrochemical Regulation *(AGRO)	P				
Environmental Monitoring Data Collection, Utility, and Use in Pesticide Risk Assessment and Registration *(AGRO)		A	P		
Zero Waste Strategies: Valorizing Undervalued Agricultural Coproducts and Food Waste *(AGRO)		D	D		
AGRO International Award: Symposium in Honor of Dr. Thomas M. Stevenson for His Contributions to the Discovery of New Fungicides, Herbicides and Insecticides *(AGRO)		D	D		
Portable and Compact Separation Technologies *(ANYL)		D			
Adapting Agricultural Chemistry and Practices to a Changing Climate *(AGRO)		P	P		
Pesticide Runoff Mitigation: Characterization, Quantification, and Implementation *(AGRO)		P	P		
Transitioning from the Laboratory to the Landscape: Challenges and Opportunities *(AGRO)		P			
Innovative Materials for Environmental Sustainability *(ENVR)			A	D	A
Electrified Water Treatment Processes *(ENVR)			D	D	A

Division of Agricultural and Food Chemistry (continued)

AGFD

Jonathan Beauchamp, Jason Soares, program chairs

Moscone Center	S	M	Tu	W	Th
Uses of HPLC-Mass Spectrometry in Support of Agricultural Research and Development - Trends and Best Practices *(AGRO)			D		
The Role of Chemistry in Addressing Hunger and Food Security *(AGRO)			D		
Early Career Symposium: Harnessing Chemical Ecology to Achieve Food Security *(AGRO)			P	A	
New Strategies in Process Research and Development in Crop Protection *(AGRO)			P		
Trace Analysis of Substances of Concern (SoC) for Safer Materials *(ANYL)				D	
Extracting and Engineering a Lifetime of Accomplishments: Honoring the Career of Dr. Jerry King *(CHAS)				D	
Electrocatalysts and Electrochemical Processes for Water Reuse *(ENVR)				P	

Division of Agrochemicals

AGRO

Aaron Gross, program chair

Moscone Center	S	M	Tu	W	Th
Residue Analysis of Plant Protection Products - Advancements in Analytical Methodologies Over the Decades **	A		P		
Data-Driven Approaches to Reduce Uncertainties in Water Exposure Assessments	A		P		
Back to the Basics: GLP Training for Study Personnel	A				
Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals **	D		P		
Technological Solutions to Address Food Insecurity, Trade Challenges and Food Waste **	D		P		
Agrochemical Formulations and Application Technology: Challenges and Innovation	P		P		
Biorational Technologies for Control of Invasive Pests in a Changing Climate **	P		P		
Epidemiology: A Growing Field in Agrochemistry and Agrochemical Regulation **	P				

Division of Agrochemicals (continued)

AGRO
Aaron Gross, program chair

Moscone Center	S	M	Tu	W	Th
Environmental Monitoring Data Collection, Utility, and Use in Pesticide Risk Assessment and Registration **		A	P		
<i>In Vitro</i> Comparative Animal Metabolism of Agrochemicals		A	P		
Zero Waste Strategies: Valorizing Undervalued Agricultural Coproducts and Food Waste **		D	D		
AGRO International Award: Symposium in Honor of Dr. Thomas M. Stevenson for His Contributions to the Discovery of New Fungicides, Herbicides and Insecticides **		D	D		
Adapting Agricultural Chemistry and Practices to a Changing Climate **		P	P		
Pesticide Runoff Mitigation: Characterization, Quantification, and Implementation **		P	P		
Transitioning from the Laboratory to the Landscape: Challenges and Opportunities **		P			
AGRO Sci-Mix		E			
Innovations in Vector Control: New Tools and Strategies **			D	A	
Uses of HPLC-Mass Spectrometry in Support of Agricultural Research and Development - Trends and Best Practices **			D		
Pesticides and Other Organics in Urban Environments **			D		
The Role of Chemistry in Addressing Hunger and Food Security **			D		
Early Career Symposium: Harnessing Chemical Ecology to Achieve Food Security **			P	A	
Unmanned Aerial Systems (aka Drones): Pesticide Spraying and Other Agricultural Applications **			P	A	
Chemistry For and From Agriculture: AGRO Division Legacy and Future Opportunities			P	P	
Effect of EPA's Endangered Species Enforcement on the Future of Agrochemicals **			P	P	
New Strategies in Process Research and Development in Crop Protection **			P		
Protection of Agricultural Productivity, Public Health and the Environment (General Session)			P		

Division of Agrochemicals (continued)

AGRO
Aaron Gross, program chair

Moscone Center	S	M	Tu	W	Th
Advancing Public Engagement in Effective Pesticide ESA Education and Regulation **				A	
Wildfires: Chemistry and Environmental Impacts on Air, Water, and Soil *(ENVR)	A			P	
Materials Development to Address Environmental and Sustainability Challenges *(ENVR)	D	D	D	P	
Food Security: The Role of Alternative Protein Sources in Addressing World Hunger *(AGFD)	D	P			
Methods and Modeling for Evaluating and Mitigating Plastic Pollution in Air, Land, and Water *(ENVR)	D			P	
Advanced Materials and Technologies for Detection and Treatment of PFAS and Other Emerging Contaminants *(ENVR)	P	D	P	P	
Biorational Technologies for Control of Invasive Pests in a Changing Climate *(AGRO)	P		P		
Forever Chemicals in the Environment, Distribution and Risk *(AGFD)		A			
Zero Waste Strategies: Valorizing Undervalued Agricultural Coproducts and Food Waste *(AGRO)		D	D		
AGRO International Award: Symposium in Honor of Dr. Thomas M. Stevenson for His Contributions to the Discovery of New Fungicides, Herbicides and Insecticides *(AGRO)		D	D		
Biotechnology and Synthetic Biology for Sustainable Foods, Food Ingredients, and Flavor *(AGFD)		D			
Portable and Compact Separation Technologies *(ANYL)		D			
Adapting Agricultural Chemistry and Practices to a Changing Climate *(AGRO)		P	P		
Artificial Intelligence (AI) Applications for Food and Agriculture *(AGFD)		P			
Innovative Materials for Environmental Sustainability *(ENVR)			A	D	A
The Role of Chemistry in Addressing Hunger and Food Security *(AGRO)			D		

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Division of Agrochemicals
(continued)

AGRO

Aaron Gross, program chair

Moscone Center	S	M	Tu	W	Th
Sustainable Agriceuticals *(AGFD)			P	A	A
Early Career Symposium: Harnessing Chemical Ecology to Achieve Food Security *(AGRO)			P	A	
New Strategies in Process Research and Development in Crop Protection *(AGRO)			P		
Chemical Intervention Technology to Improve Microbial Stability of Food *(AGFD)				D	
Trace Analysis of Substances of Concern (SoC) for Safer Materials *(ANYL)				D	
Food Toxicants: Occurrence, Detection, Formation Mechanism and Mitigation *(AGFD)				P	A
Electrocatalysts and Electrochemical Processes for Water Reuse *(ENVR)				P	
Smart Food Safety *(AGFD)					A

Division of Analytical Chemistry

ANYL

Mirlinda Biba, program chair

Moscone Center	S	M	Tu	W	Th
Nanozymes for Bioanalysis and Beyond	D				
Advances in Separations	DE	A		E	A
Advances in Mass Spectrometry	DE	A			
Advances in Electrochemistry	DE				
Advances in Applied Nonlinear Spectroscopy	E		D	D	A
Advances in Spectroscopy	E		D	DE	
Division of Analytical Chemistry Poster Session	E			E	
ACS Award in Analytical Chemistry		D	A		
Portable and Compact Separation Technologies **		D			
Wearable and Implantable Technologies		D			
Virtual Graduate Students Symposium in Asia-Pacific Region on Analytical Chemistry		P	P		
Advances in Measurement Science Lectureship Awards		P			
ANYL Sci-Mix		E			
Mass Spectrometry for Protein Glycosylation			A		

Division of Analytical Chemistry
(continued)

ANYL

Mirlinda Biba, program chair

Moscone Center	S	M	Tu	W	Th
Francis P. Garvan-John M. Olin Medal Award Symposium			A		
Capillary Electrophoresis-Mass Spectrometry for Omics			P		
ACS Division of Analytical Chemistry Award Symposium			P		
Application of Predictive Sciences in Pharmaceutical Industry			P		
A Diverse Path to Success in Analytical Chemistry				A	
Imaging the Future of Imaging **				D	
ACS Award in Chromatography				D	
Trace Analysis of Substances of Concern (SoC) for Safer Materials **				D	
Lessons Learned in Chemical Education from the Pandemic **					A
Precompetitive Collaborations on Enabling Technologies for Pharmaceutical Research and Development					A
Wildfires: Chemistry and Environmental Impacts on Air, Water, and Soil *(ENVR)	A			P	
Materials Development to Address Environmental and Sustainability Challenges *(ENVR)	D	D	D	P	
Remediation of Contaminated Water for Reuse *(ENVR)	D	D		P	
Food Security: The Role of Alternative Protein Sources in Addressing World Hunger *(AGFD)	D	P			
Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals *(AGRO)	D		P		
Technological Solutions to Address Food Insecurity, Trade Challenges and Food Waste *(AGRO)	D		P		
Advanced Materials and Technologies for Detection and Treatment of PFAS and Other Emerging Contaminants *(ENVR)	P	D	P	P	
Biorational Technologies for Control of Invasive Pests in a Changing Climate *(AGRO)	P		P		
Environmental Monitoring Data Collection, Utility, and Use in Pesticide Risk Assessment and Registration *(AGRO)		A	P		
Zero Waste Strategies: Valorizing Undervalued Agricultural Coproducts and Food Waste *(AGRO)		D	D		

Division of Analytical Chemistry (continued)

ANYL
Mirlinda Biba, program chair

Moscone Center	S	M	Tu	W	Th
AGRO International Award: Symposium in Honor of Dr. Thomas M. Stevenson for His Contributions to the Discovery of New Fungicides, Herbicides and Insecticides *(AGRO)		D	D		
Biotechnology and Synthetic Biology for Sustainable Foods, Food Ingredients, and Flavor *(AGFD)		D			
Adapting Agricultural Chemistry and Practices to a Changing Climate *(AGRO)		P	P		
Artificial Intelligence (AI) Applications for Food and Agriculture *(AGFD)		P			
Transitioning from the Laboratory to the Landscape: Challenges and Opportunities *(AGRO)		P			
Innovative Materials for Environmental Sustainability *(ENVR)			A	D	A
Uses of HPLC-Mass Spectrometry in Support of Agricultural Research and Development - Trends and Best Practices *(AGRO)			D		
Pesticides and Other Organics in Urban Environments *(AGRO)			D		
The Role of Chemistry in Addressing Hunger and Food Security *(AGRO)			D		
Sustainable Agriceuticals *(AGFD)			P	A	A
Early Career Symposium: Harnessing Chemical Ecology to Achieve Food Security *(AGRO)			P	A	
Unmanned Aerial Systems (aka Drones): Pesticide Spraying and Other Agricultural Applications *(AGRO)			P	A	
Effect of EPA's Endangered Species Enforcement on the Future of Agrochemicals *(AGRO)			P	P	
New Strategies in Process Research and Development in Crop Protection *(AGRO)			P		
Chemical Intervention Technology to Improve Microbial Stability of Food *(AGFD)				D	
Extracting and Engineering a Lifetime of Accomplishments: Honoring the Career of Dr. Jerry King *(CHAS)				D	
Exposome Meets Chemistry - Assessing Exposures to Complex Chemical Mixtures and their Impacts *(ENVR)				D	
Sensors for Water Quality Monitoring in Resource Limited Environments *(ENVR)				D	

Division of Analytical Chemistry (continued)

ANYL
Mirlinda Biba, program chair

Moscone Center	S	M	Tu	W	Th
Food Toxicants: Occurrence, Detection, Formation Mechanism and Mitigation *(AGFD)				P	A
Separation, Destruction, and Monitoring of Per- and Polyfluoroalkyl Substances (PFASs) and Fluorinated Alternatives *(ENVR)				P	A
Electrocatalysts and Electrochemical Processes for Water Reuse *(ENVR)				P	
Smart Food Safety *(AGFD)					A

Division of Biological Chemistry

BIOL
Phoebe Glazer, Kate Carroll, program chairs

Moscone Center	S	M	Tu	W	Th
ACS Infectious Disease Award	A				
Emerging Areas and New Methods in Biological Chemistry	P		PE	A	
Bristol Meyers Squibb Award in Enzyme Chemistry	P				
Graduate Student Symposium		A		P	A
Abeles & Jencks Award Symposium		A			
Postdoctoral Fellow Symposium		P			
Hammes Award Symposium		P			
BIOT Sci-Mix		E			
Diversity in Biological Chemistry: Rising Stars **			A		
The Intersection of Biological and Medicinal Chemistry			D		
Structural Biology and Harnessing the Power of Data **				A	
Early Career Investigators				P	
Linking Toxicology and Human Health Through the Exposome *(TOXI)			P		
Endogenous Metabolites in Aging and Disease *(TOXI)				A	
Imaging the Future of Imaging *(ANYL)				D	

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MCSC: Macromolecular Chemistry: The Second Century

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Division of Biochemical Technology (continued)

BIOT

Hadley Sikes, Elizabeth Goodrich, program chairs

San Francisco Marriott Marquis	S	M	Tu	W	Th
Downstream Processing	A	A			
Biomolecular Engineering & Biophysical Processes: New Technologies in Biomolecule Design & Engineering	A				
Cell and Gene Therapies	D	A			
Upstream Processing	D	P		A	A
Biomedical Technologies: New Technologies In Cell and Microbiome Engineering	D				
Downstream Processing: Chromatographic Separations Using Novel Stationary Phases and Approaches	P	P			
Biomolecular Engineering & Biophysical Processes: Biomolecule Structure and Function	P				
General Papers		A	PE	E	
Upstream Processing: Innovative Technologies and Next-Generation Therapeutics		A			
BIOT Spotlight: Sustainability in Bioprocessing		A			
Biomedical Technologies		D		A	
Bioprocessing 4.0: Breakthrough Technologies for Continuous Manufacturing		P		P	
Biomolecular Engineering & Biophysical Processes: Protein Engineering for Therapeutic, Diagnostic, and Sensor Applications		P			
BIOL Sci-Mix		E			
Upstream Processing: Case Studies and Advances in Upstream Processing			A		
Biomolecular Engineering & Biophysical Processes: Enzyme Engineering for Biocatalysis			A		
Bioprocessing 4.0: Integrated Bioprocess Development - Case Studies in Integrated Process Design, Process Intensification and Tech Transfers			A		
Downstream Processing: Membrane-Based Separations			D		
Biomedical Technologies: New Technologies for the Delivery and Targeting of Therapeutics			D		
Biomolecular Engineering & Biophysical Processes: Biotherapeutic Developability and Stability			P		

Division of Biochemical Technology (continued)

BIOT

Hadley Sikes, Elizabeth Goodrich, program chairs

San Francisco Marriott Marquis	S	M	Tu	W	Th
Bioprocessing 4.0: Applying High-Throughput Approaches from Discovery through Launch			P		
Downstream Processing: In Silico and Mechanistic Modeling of Bioseparations				A	
Bioprocessing 4.0: Digitization in Bioprocessing & Machine Learning				A	
Downstream Processing: Non-Antibody Modalities				P	
Biomolecular Engineering & Biophysical Processes: Emerging Biophysical and Analytical Characterization Technologies (BPAC)				P	
Biomedical Technologies: Bioelectricity of Living Matter				P	
Downstream Processing: Case Studies in Tech Transfer, Scaleup, and Bioanalytical Process Analytical Technologies (PAT)					A
BIOT Spotlight: Drug Products - Fill and Finish					A
Simulation and Data Science Approaches to Design Biologically Relevant Polymers and their Applications *(POLY)	D		P		
Plastic Pollution and E-Waste: Treatment and Valorization *(ENVR)		A		P	
Harnessing Data to Improve Oxidation and Disinfection Processes *(ENVR)		P		P	
ACS Presidential Symposium on Machine Learning for the Chemical Sciences and Engineering *(MPPG)			D		
Early Career Symposium: Harnessing Chemical Ecology to Achieve Food Security *(AGRO)			P	A	
Role of Chemistry in Developing Sustainable Infrastructures *(ENVR)				P	

Division of Business Development and Management

BMGT

Matthew Grandbois, program chair

Moscone Center	S	M	Tu	W	Th
Chemical Angel Network			P		
ACS Presidential and Kavli Symposium Toward Autonomous Continuous-Flow Chemical Discovery and Processing *(INOR)		A			

Division of Business Development and Management (continued)

BMGT
Matthew Grandbois, program chair

Moscone Center	S	M	Tu	W	Th
Zero Waste Strategies: Valorizing Undervalued Agricultural Coproducts and Food Waste *(AGRO)		D	D		
Biorefinery at the Crossroads *(PRES)		A	D		
Chemical Business at the Crossroads *(SCHB)			A		

Division of Carbohydrate Chemistry and Chemical Glycobiology

CARB
Danielle Dube, program chair

Moscone Center	S	M	Tu	W	Th
New Advances for Synthesis of Complex Oligosaccharides and Glycoconjugates in Memory of Raymond Lemieux for his 100 Year-Old Birthday	D				
CARB General Poster Session	E		P		
Advances in Carbohydrate Synthesis Lead to New Research & Therapeutic's Opportunities in the Glycosciences **		D			
CARB Sci-Mix		E			
New Advances in the Therapeutic Applications of Glycans			D		
Advancing Women's Health Through Glycoscience				D	
Advances in Glycomaterials for Biomimicry and Biomedicine *(PMSE)	D				
Natural Polymers - A Back to the Future Approach to Deal with the Plastics Issues *(POLY)			DE	A	
Tetrahedron Prize Symposium *(ORGN)				P	

Division of Catalysis Science and Technology

CATL
Shaama Mallikarjun Sharada, Michele Sarazen, program chairs

Moscone Center	S	M	Tu	W	Th
Fundamentals of Catalysis and Surface Science **	A	A	D	D	
Field-Enhanced Catalysis for the Decarbonization of Chemical Production	A				

Division of Catalysis Science and Technology (continued)

CATL
Shaama Mallikarjun Sharada, Michele Sarazen, program chairs

Moscone Center	S	M	Tu	W	Th
Molecular and Heterogeneous Photocatalysts: Advances in Experiments and Theory **	D	P			
Electrocatalysis for Sustainable Energy: Fundamental, Applications, & Perspective **	D		D	D	A
Chemical Deconstruction and Upcycling of Polymer Waste **	D				
Multiscale Modeling in Catalysis **	D				
Developments and Future Challenges in Environmental Catalysis **	P	A			
Catalyst Dynamics of Active Sites, Catalyst Structure, and Reaction Environment **	P	P	A	P	
General Catalysis	P		E	D	A
Data Science for Catalysis: Structural Evolution, Reaction Kinetics, and Catalysis Informatics **		D	A	D	A
Open-Source Software and Databases for Simulations and Machine Learning in Catalysis and Kinetics **		D			
Honoring Mary P. Watson: 2023 ACS Catalysis Lectureship Award		D			
CATL Sci-Mix		E			
Honoring Prof. Andrew J. Medford: 2023 CATL Early Career Award			A		
Conversion of Biomass and Waste Carbon Sources to Fuels and Products **			P	D	A
Improving Rigor and Reproducibility of Measurements in Catalysis and Materials Research **			P		
Honoring Prof. Fabio H. Ribeiro: 2023 CATL Exceptional Achievement Award			P		
Circular Economy of Polymers *(POLY)	D	P	PE		
Plastic Pollution and E-Waste: Treatment and Valorization *(ENVR)		A		P	
6th CME NASA Symposium: Advancing Materials for Space Exploration *(POLY)		D	D		
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	

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Division of Catalysis Science and Technology (continued)

CATL

Shaama Mallikarjun Sharada, Michele Sarazen,
program chairs

Moscone Center	S	M	Tu	W	Th
Electrified Water Treatment Processes *(ENVR)			D	D	A
Chemical Recycling and Upcycling of Polymers *(POLY)			DE	D	A
Separation, Destruction, and Monitoring of Per- and Polyfluoroalkyl Substances (PFASs) and Fluorinated Alternatives *(ENVR)				P	A

Division of Cellulose and Renewable Materials

CELL

Falk Wolfgang Liebner, Glenn Larkin, program chairs

Moscone Center	S	M	Tu	W	Th
Recent Progress in Lignin-Containing Processes and Developing Lignin-Derived Products	A	A			
Advances in Renewable Materials	P	P	P	A	
CELL Sci-Mix		E			
Inaugural ACS CELL Division Symposium on Industrial Renewable Materials			A		
Virtual Graduate Students Symposium in Asia-Pacific Region on Cellulose and Renewable Materials			P	P	
General Poster Session			PE		
Emerging Technologies and Applications of (Nano)Cellulose				A	A
Circular Economy of Polymers *(POLY)	D	P	PE		
Plastic Pollution and E-Waste: Treatment and Valorization *(ENVR)		A		P	
Adapting Agricultural Chemistry and Practices to a Changing Climate *(AGRO)		P	P		
Mentorship, ACS, and Us *(PRES)			D	P	
Natural Polymers - A Back to the Future Approach to Deal with the Plastics Issues *(POLY)			DE	A	

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Division of Chemistry and the Law

CHAL

Matthew Hlinka, program chair

Moscone Center	S	M	Tu	W	Th
Patents: What, When, Why?	A				
Practice Tips to Strengthen Your Patents Based on Recent High Court Decisions	P				
Markush@100		A			
Hot Topics in Chemistry and the Law		P			
Chemistry and the Law General Posters		P			
CHAL Sci-Mix		E			
Epidemiology: A Growing Field in Agrochemistry and Agrochemical Regulation *(AGRO)	P				
Advancing Public Engagement in Effective Pesticide ESA Education and Regulation *(AGRO)				A	

Division of Chemical Health and Safety

CHAS

Debbie Decker, program chair

Hilton Parc 55	S	M	Tu	W	Th
What I Learned from my Lab Incident **	P				
EHS Leadership and Diversity **	P				
Chemical Health and Safety General Papers **		A			
Division of Chemical Health and Safety Awards **		P			
Cannabis Extractions and Formulations **		P			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status **		E	D	A	
Chemical Health and Safety General Posters **		E			
CHAS Sci-Mix		E			
Advances and Perspectives of Cannabis Research in Medicinal Chemistry, Analysis and Bioanalysis **			D		
Extracting and Engineering a Lifetime of Accomplishments: Honoring the Career of Dr. Jerry King **				D	
Chemical Safety Information in the 21st Century *(CINF)			P		

Division of Chemical Education

CHED

Mitzy Erdmann, Patrick Daubenmire, program chairs

Moscone Center	S	M	Tu	W	Th
General Papers	D	A		D	A
Celebrating 100 Years of the Journal of Chemical Education	D				
Successful Student Chapters	P	P			
Undergraduate Research Posters	P	P			
General Posters	E		E		
Research in Chemistry Education		D	A		
Effective Approaches to Student Engagement		D		A	
NMR Spectroscopy in the Undergraduate Curriculum		P			
CHED Sci-Mix		E			
Bridging the Gap Between Machine Learning, Computational Modeling, and Experimental Chemistry for Catalyst Design			D		
Teaching Chemistry to Students with Disabilities **			D		
Research in Chemistry Education: Research to Practice			P		
Introducing Materials Chemistry at the Freshman Level Through a Context-first Approach				A	
Remediation of Contaminated Water for Reuse *(ENVR)	D	D		P	
Chemical Safety Information in the 21st Century *(CINF)			P		
C. Ellen Gonter Graduate Student Award Symposium *(ENVR)			P		
Lessons Learned in Chemical Education from the Pandemic *(ANYL)					A

Division of Chemical Information

CINF

Margaret Lafferty, Michelle Nolan, Ye Li, program chairs

Hilton Nikko San Francisco	S	M	Tu	W	Th
Helping Chemists Manage their Data	A	A			
Algorithm Development and Data Analysis in Chemical Space	A				
Chemical informatics (R)evolution: Towards Democratization and Open Science	D	D			
Past, Present and Future of AI and Predictive Analytics for Chemical Reactions **	P	D			

Division of Chemical Information (continued)

CINF

Margaret Lafferty, Michelle Nolan, Ye Li, program chairs

Hilton Nikko San Francisco	S	M	Tu	W	Th
Enhance your Data - Smart Ways to Metadata and Knowledge Graphs	P				
Chemical Information Across the Chemistry Enterprise	P				
Machine Learning and AI for Organic Chemistry **		P		D	A
CINF Sci-Mix		E			
Combating Science Mis- and Dis-Information **			A		
FAIR Management of Spectroscopic Data in Chemistry – Solutions and Standards			A		
Herman Skolnik Award Symposium Honoring Dr. Patrick Walters			D		
Chemoinformatics in the Cloud			P		
Chemical Safety Information in the 21st Century **			P		
Cross-Disciplinary Data Exchange				A	
Taking a Deep Dive into Chemical Space **				D	A
Chemical Data Interoperability, Validation & Evaluation				P	A
Application of Augmented Artificial Intelligence in Toxicology Metabolism Prediction *(TOXI)	P				
Data Science for Catalysis: Structural Evolution, Reaction Kinetics, and Catalysis Informatics *(CATL)		D	A	D	A
Open-Source Software and Databases for Simulations and Machine Learning in Catalysis and Kinetics *(CATL)		D			
ACS Presidential Symposium on Machine Learning for the Chemical Sciences and Engineering *(MPPG)			D		
Improving Rigor and Reproducibility of Measurements in Catalysis and Materials Research *(CATL)			P		

Division of Colloid and Surface Chemistry

COLL

Steven Tait, Daniel Miller, program chairs

Moscone Center	S	M	Tu	W	Th
Structure, Properties, and Applications of Porous Liquids	A	P			
Nanomaterials	DE	D	A	D	A
Surface, Interface and Coating Materials	DE	D	D		

Division of Colloid and Surface Chemistry (continued)

COLL
Steven Tait, Daniel Miller, program chairs

Moscone Center	S	M	Tu	W	Th
ACS Award in Surface Chemistry 2023 - Symposium in honor of Joachim Sauer	DE	D			
Nano- and Microstructured Materials and Interfaces for Human Health	DE	D			
Symposium in Honor of Prof. Nicholas D. Spencer	DE	D			
Basic Research in Colloids, Surfactants and Interfaces	PE	D	D	D	A
Biomaterials and Biointerfaces	E	D	P	A	
Surface Chemistry	E	P	A	D	A
Colloidal Networks	E	P	D	D	A
Fundamental Research in Colloids, Surfaces and Nanomaterials	E	P			
Mentoring Undergraduate Surface Science Research	E		A	P	A
Nanohybrid Materials for Diverse Applications	E		A	P	A
Biosurfactants	E		D	D	
Nanoscience and Nanotechnology for Defense and Security	E		P	D	A
COLL Sci-Mix		E			
Symposium in Honor of Cynthia M. Friend			P	D	A
Langmuir Lectures and ACS Applied Materials and Interfaces Award Lecture			P		
Impact of PFAS on Environment and Health *(ENVR)	D			P	
Agrochemical Formulations and Application Technology: Challenges and Innovation *(AGRO)	P		P		

Division of Computers in Chemistry

COMP
Alex Dickson, Henry Woodcock, Maria Nagan, Kira Armacost, program chairs

Moscone Center	S	M	Tu	W	Th
Molecular Mechanics	A				A
Symposium in honor of the 80th Birthday of Prof. Kendall N. Houk: Pushing Back the Frontiers of Computational Organic Chemistry and Chemical Biology	D	D			
Free and Open-Source Software: Harnessing the Power of Data	D	D			
Machine Learning in Chemistry **	D	P	A	P	A

Division of Computers in Chemistry (continued)

COMP
Alex Dickson, Henry Woodcock, Maria Nagan, Kira Armacost, program chairs

Moscone Center	S	M	Tu	W	Th
Symposium in honor of the 60th Birthday of Prof. Carlos Simmerling: Molecular Dynamics, from Force Field Development to Biological Applications	P	D			
Data Science for Catalysis: Automated-Synthesis, Process Optimization & Catalyst Discovery **		D			
Virtual Graduate Students Symposium in Asia-Pacific Region on Computational Chemistry		P	P		
COMP Sci-Mix		E			
Quantum Mechanics			A	D	A
Tack Kuntz Symposium on Structures, Energetics & Dynamics of Protein Binding: From Theory to Drug Design			D	A	
Emerging Techniques to Quantify Biomolecular Conformational Ensembles			D	D	
Drug Design **			D	P	A
Material Science			P	D	A
ACS Computers in Chemistry Awards			P		
COMP Poster Session **			E	E	
Chemical Computing Group Graduate Student Travel Awards			E		
NVIDIA GPU Award			E		
Open-Eye Outstanding Junior Faculty Award			E		
Wiley Computers in Chemistry Outstanding Postdoc Award			E		
Advances in Macrocyclic Design: Computational and Biophysical Methods **				D	
Past, Present and Future of AI and Predictive Analytics for Chemical Reactions *(CINF)	P	D			
Data Science for Catalysis: Structural Evolution, Reaction Kinetics, and Catalysis Informatics *(CATL)		D	A	D	A
Open-Source Software and Databases for Simulations and Machine Learning in Catalysis and Kinetics *(CATL)		D			
Machine Learning and AI for Organic Chemistry *(CINF)		P		D	A
ACS Presidential Symposium on Machine Learning for the Chemical Sciences and Engineering *(MPPG)			D		
Taking a Deep Dive into Chemical Space *(CINF)				D	A

Division of Energy and Fuels

ENFL

Feng Jiao, Yingwen Cheng, program chairs

Moscone Center	S	M	Tu	W	Th
ENFL Future Investigator Spotlight	A				
Energy Storage in Chemical Bonds: Challenges and Opportunities from Theory to Applications for Hydrogen Technology	D	A			
Symposium on Materials for Lithium and Sodium Batteries	D	D	A		
Advances in Carbon Capture, Utilization, and Storage for a Sustainable Energy Future	D	D	E		
Energy Summit: Finding Solutions for Sustainable Energy Transition **	D	D			
ENFL Mid-Career Award in Honor of Michelle K. Kidder	D				
ENFL Distinguished Researcher Award	D				
Electrochemical and Biological Hybrid Systems for CO ₂ Utilization	D				
ACS Henry H. Storch Award in Energy Chemistry in Honor of Sarah H. Tolbert	D				
Organic, Perovskite and Hybrid Solar Cells	P	D	A		
High Entropy Nanomaterials and Emerging Applications		D	A		
Solid-State Batteries: Materials, Interfaces, Characterizations and Simulations		D	D	D	A
George A. Olah Award in Hydrocarbon or Petroleum Chemistry in Honor of S. Ted Oyama		D	D	D	
A Symposium in Honor of 45 Years of Research Contributions from Randall E. Winans in Chemistry and Energy		D	D		
Electrocatalysis for Energy and Sustainability		D	DE	D	A
ACS Women in Energy Symposium		P	AE		
Sustainable Aviation Fuel: Current State and Research Needs		P	D		
Accelerating Materials Development for Photocatalysis and Photoelectrocatalysis		P	DE	D	A
Ionic Liquids Across Scales and their Modern-Era Applications		P	P	D	A
Virtual Graduate Students Symposium in Asia-Pacific Region on Hydrogen Energy and CO ₂ Conversion		P	P		
Advances in Energy and Fuel		P	E		
Chemistries and Technologies to Enable Hydrogen and Ammonia as Alternative Energy Carriers		P		D	A

Division of Energy and Fuels
(continued)

ENFL

Feng Jiao, Yingwen Cheng, program chairs

Moscone Center	S	M	Tu	W	Th
Direct Air Capture of CO ₂ and its Conversion		P		D	A
Advancements in Detailed Fuel Characterization by Gas Chromatography		P			
Advanced Analytical Tools for Energy Transition Initiatives: Challenges & Opportunities		P			
The Advent of Data and Machine Learning for Electrochemical Applications		P			
ENFL Sci-Mix		E			
Women in Battery Research			P	D	A
Aqueous-Based Energy Storage: From Fundamentals to Applications			P	D	A
Emission Control Catalysis for Greenhouse Gas Reduction			P		
Properties, Catalysis, Combustion, and Environmental Impacts of Low-Net Carbon Liquid Fuels: Harnessing the Power of Artificial Intelligence/Machine Learning				A	A
Fundamentals of Catalysis and Surface Science *(CATL)	A	A	D	D	
Critical Materials: Perspectives from the Industry, Government, and Research Communities *(COMSCI)	D	D			
Molecular and Heterogeneous Photocatalysts: Advances in Experiments and Theory *(CATL)	D	P			
Electrocatalysis for Sustainable Energy: Fundamental, Applications, & Perspective *(CATL)	D		D	D	A
Multiscale Modeling in Catalysis *(CATL)	D				
History of Energy and Fuels: Opportunities and Challenges *(HIST)	P	D			
Catalyst Dynamics of Active Sites, Catalyst Structure, and Reaction Environment *(CATL)	P	P	A	P	
Plastic Pollution and E-Waste: Treatment and Valorization *(ENVR)		A		P	

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Division of Energy and Fuels
(continued)

ENFL

Feng Jiao, Yingwen Cheng, program chairs

Moscone Center	S	M	Tu	W	Th
Understanding and Reducing Anthropogenic Emissions of Methane: Harnessing the Power of Data *(I&EC)		A			
Data Science for Catalysis: Structural Evolution, Reaction Kinetics, and Catalysis Informatics *(CATL)		D	A	D	A
Zero Waste Strategies: Valorizing Undervalued Agricultural Coproducts and Food Waste *(AGRO)		D	D		
Adapting Agricultural Chemistry and Practices to a Changing Climate *(AGRO)		P	P		
Conversion of Biomass and Waste Carbon Sources to Fuels and Products *(CATL)			P	D	A
Role of Chemistry in Developing Sustainable Infrastructures *(ENVR)				P	

Division of Environmental Chemistry

ENVR

Virender Sharma, Mallikarjuna Nadagouda, program chairs

Moscone Center	S	M	Tu	W	Th
General Session: Advances in Environmental Chemistry	A	A		D	
Interfacial PFAS Processes and Mechanisms	A			P	
Wildfires: Chemistry and Environmental Impacts on Air, Water, and Soil **	A			P	
Materials Development to Address Environmental and Sustainability Challenges **	D	D	D	P	
Remediation of Contaminated Water for Reuse **	D	D		P	
Aquatic Science and Technology at Environmental, Disciplinary, and Societal Interfaces: A Symposium Honoring the Career of Janet Hering **	D	D			
Impact of PFAS on Environment and Health **	D			P	
Electrochemical Materials and Interfaces for Environmental and Sustainability Challenges	D			P	
Methods and Modeling for Evaluating and Mitigating Plastic Pollution in Air, Land, and Water	D			P	

Division of Environmental Chemistry (continued)

ENVR

Virender Sharma, Mallikarjuna Nadagouda, program chairs

Moscone Center	S	M	Tu	W	Th
Radiation Chemistry, Aquatic Photochemistry, and Advanced Oxidation Processes in Environmental Chemistry in Honor of William J. Cooper	P	D	A		
Advanced Materials and Technologies for Detection and Treatment of PFAS and Other Emerging Contaminants **	P	D	P	P	
Plastic Pollution and E-Waste: Treatment and Valorization **		A		P	
Processes and Risks of Micro- & Nano-Plastics in the Environment		D	A	P	
Environmental Chemistry and Nanotechnology: A Tribute to Joel Pedersen		D	D	P	
Virtual Graduate Students Symposium in Asia-Pacific Region on Current Environmental Issues		P	P		
Harnessing Data to Improve Oxidation and Disinfection Processes **		P		P	
ENVR Sci-Mix		E			
Innovative Materials for Environmental Sustainability **			A	D	A
Women in Science and Engineering (WISE) **			D	A	
Electrified Water Treatment Processes **			D	D	A
Advances in Isolation, Removal, Sensing, Detection, Degradation, and Replacement of PFAS and Future Outlook			D	D	
Improving Water Quality by Understanding Environmental Chemical Processes: A Symposium in Honor of Richard G. Luthy			P	D	A
C. Ellen Gonter Graduate Student Award Symposium **			P		
Exposome Meets Chemistry - Assessing Exposures to Complex Chemical Mixtures and their Impacts **				D	
Sensors for Water Quality Monitoring in Resource Limited Environments **				D	
Separation, Destruction, and Monitoring of Per- and Polyfluoroalkyl Substances (PFASs) and Fluorinated Alternatives **				P	A
Electrocatalysts and Electrochemical Processes for Water Reuse **				P	
Role of Chemistry in Developing Sustainable Infrastructures **				P	

Division of Environmental Chemistry (continued)

ENVR

Virender Sharma, Mallikarjuna Nadagouda, program chairs

Moscone Center	S	M	Tu	W	Th
United Nations Sustainable Development Goal #6-Clean Water and Sanitation: Current Progress, Challenges, and Future Outlook **				P	
Wildfires: Chemistry and Environmental Impacts on Air, Water, and Soil *(ENVR)	A			P	
Materials Development to Address Environmental and Sustainability Challenges *(ENVR)	D	D	D	P	
Critical Materials: Perspectives from the Industry, Government, and Research Communities *(COMSCI)	D	D			
Food Security: The Role of Alternative Protein Sources in Addressing World Hunger *(AGFD)	D	P			
Molecular and Heterogeneous Photocatalysts: Advances in Experiments and Theory *(CATL)	D	P			
Electrocatalysis for Sustainable Energy: Fundamental, Applications, & Perspective *(CATL)	D		D	D	A
Environmental Fate, Transport, and Modeling of Agriculturally-related Chemicals *(AGRO)	D		P		
Technological Solutions to Address Food Insecurity, Trade Challenges and Food Waste *(AGRO)	D		P		
Developments and Future Challenges in Environmental Catalysis *(CATL)	P	A			
Biorational Technologies for Control of Invasive Pests in a Changing Climate *(AGRO)	P		P		
Epidemiology: A Growing Field in Agrochemistry and Agrochemical Regulation *(AGRO)	P				
Environmental Monitoring Data Collection, Utility, and Use in Pesticide Risk Assessment and Registration *(AGRO)		A	P		
Forever Chemicals in the Environment, Distribution and Risk *(AGFD)		A			
Understanding and Reducing Anthropogenic Emissions of Methane: Harnessing the Power of Data *(I&EC)		A			
Zero Waste Strategies: Valorizing Undervalued Agricultural Coproducts and Food Waste *(AGRO)		D	D		

Division of Environmental Chemistry (continued)

ENVR

Virender Sharma, Mallikarjuna Nadagouda, program chairs

Moscone Center	S	M	Tu	W	Th
AGRO International Award: Symposium in Honor of Dr. Thomas M. Stevenson for His Contributions to the Discovery of New Fungicides, Herbicides and Insecticides *(AGRO)		D	D		
Biotechnology and Synthetic Biology for Sustainable Foods, Food Ingredients, and Flavor *(AGFD)		D			
Portable and Compact Separation Technologies *(ANYL)		D			
Adapting Agricultural Chemistry and Practices to a Changing Climate *(AGRO)		P	P		
Pesticide Runoff Mitigation: Characterization, Quantification, and Implementation *(AGRO)		P	P		
Artificial Intelligence (AI) Applications for Food and Agriculture *(AGFD)		P			
Transitioning from the Laboratory to the Landscape: Challenges and Opportunities *(AGRO)		P			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	
Innovative Materials for Environmental Sustainability *(ENVR)			A	D	A
Uses of HPLC-Mass Spectrometry in Support of Agricultural Research and Development - Trends and Best Practices *(AGRO)			D		
Pesticides and Other Organics in Urban Environments *(AGRO)			D		
The Role of Chemistry in Addressing Hunger and Food Security *(AGRO)			D		
Natural Polymers - A Back to the Future Approach to Deal with the Plastics Issues *(POLY)			DE	A	
Sustainable Agriceuticals *(AGFD)			P	A	A
Early Career Symposium: Harnessing Chemical Ecology to Achieve Food Security *(AGRO)			P	A	

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Division of Environmental Chemistry (continued)

ENVR

Virender Sharma, Mallikarjuna Nadagouda, program chairs

Moscone Center	S	M	Tu	W	Th
Unmanned Aerial Systems (aka Drones): Pesticide Spraying and Other Agricultural Applications *(AGRO)			P	A	
Effect of EPA's Endangered Species Enforcement on the Future of Agrochemicals *(AGRO)			P	P	
New Strategies in Process Research and Development in Crop Protection *(AGRO)			P		
Linking Toxicology and Human Health Through the Exposome *(TOXI)			P		
Chemical Intervention Technology to Improve Microbial Stability of Food *(AGFD)				D	
Trace Analysis of Substances of Concern (SoC) for Safer Materials *(ANYL)				D	
Food Toxicants: Occurrence, Detection, Formation Mechanism and Mitigation *(AGFD)				P	A
Electrocatalysts and Electrochemical Processes for Water Reuse *(ENVR)				P	
Smart Food Safety *(AGFD)					A

Division of Fluorine Chemistry

FLUO

Andrii Matsnev, program chair

Moscone Center	S	M	Tu	W	Th
Organofluorine Chemistry: Theoretical Approach and Practical Application **	DE				
FLUO Sci-Mix		E			

Division of Geochemistry

GEOC

Eric Pierce, Lynn Katz, Nadine Kabengi, program chairs

Moscone Center	S	M	Tu	W	Th
Emerging Geochemistry Topics: Permafrost Geochemistry, Artificial Intelligence, Machine Learning and Novel Methods	P				
Reactivity at the Mineral-Water Interface: Validation through Modeling and Experiments at the Pore Scale		D			
GEOC Sci-Mix		E			

Division of Geochemistry (continued)

GEOC

Eric Pierce, Lynn Katz, Nadine Kabengi, program chairs

Moscone Center	S	M	Tu	W	Th
Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes			D	A	
Promoting Diversity in Geochemistry: Bridging People and Science to Communities				P	
General Geochemistry				E	A
Critical Materials: Perspectives from the Industry, Government, and Research Communities *(COMSCI)	D	D			
Aquatic Science and Technology at Environmental, Disciplinary, and Societal Interfaces: A Symposium Honoring the Career of Janet Hering *(ENVR)	D	D			
Impact of PFAS on Environment and Health *(ENVR)	D			P	

Division of the History of Chemistry

HIST

Nicolay Tsarevsky, program chair

Hilton Parc 55	S	M	Tu	W	Th
General Papers and Tutorial	A		P		
History of Energy and Fuels: Opportunities and Challenges **	P	D			
HIST Sci-Mix		E			
HIST Award			D		
History of Organometallic Chemistry				D	

Division of Industrial and Engineering Chemistry

I & EC

Thomas Calloway, Steven Serkiz, Erich Molitor, Anna Ivashko, Richard Mayes, program chairs

Moscone Center	S	M	Tu	W	Th
Separations Chemistry for Critical Materials	A	P	P	D	A
Future of Manufacturing: I&EC General Papers	A				
I&EC Graduate Student Symposium	A				
Molten Salt Symposium	D	A	A	A	A
Understanding and Reducing Anthropogenic Emissions of Methane: Harnessing the Power of Data **		A			

Division of Industrial and Engineering Chemistry (continued)

I & E C

Thomas Calloway, Steven Serkiz, Erich Molitor, Anna Ivashko, Richard Mayes, program chairs

Moscone Center	S	M	Tu	W	Th
Virtual Graduate Students Symposium in Asia-Pacific Region on Industrial and Engineering Chemistry		P	P		
Future of Manufacturing: I&EC General Posters		P			
I&EC Sci-Mix		E			
Data Analytics and AI for Soft Materials: Manufacturing and Healthcare **				D	A
Circular Economy of Polymers *(POLY)	D	P	PE		
Plastic Pollution and E-Waste: Treatment and Valorization *(ENVR)		A		P	
6th CME NASA Symposium: Advancing Materials for Space Exploration *(POLY)		D	D		
Extracting and Engineering a Lifetime of Accomplishments: Honoring the Career of Dr. Jerry King *(CHAS)				D	
Role of Chemistry in Developing Sustainable Infrastructures *(ENVR)				P	

Division of Inorganic Chemistry

I N O R

Ana de Bettencourt-Dias, Claus Lugmair, program chairs

Moscone Center	S	M	Tu	W	Th
Coordination Chemistry: Catalysis and Applications	D	A			
Solid-State Inorganic Chemistry: Materials and Design	D	D	A		
Coordination Chemistry: Lanthanide and Actinide Chemistry	D	D			
Organometallic Chemistry: Main Group Chemistry	D		P		
Organometallic Chemistry: Structure & Bonding	D				
Catalysis Goes to Eleven	D				
Strong Bond Activation and Transformation	D				

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Division of Inorganic Chemistry (continued)

I N O R

Ana de Bettencourt-Dias, Claus Lugmair, program chairs

Moscone Center	S	M	Tu	W	Th
Sustainable Catalysis for C1 Valorization Supported by the PRF	P	A			
Tailored Precursor Design for Inorganic Material Synthesis	P	D	A		
Coordination Chemistry: Ligand Design, Synthesis, and Reactivity	P	D	D		
Bioinorganic Chemistry, Energy, and the Environment	P	D			
Bioinorganic Chemistry from Cell to Organism	P		A		
Sustainable Energy and Environment: Environmental Remediation and Monitoring	P		A		
Nanosience: Synthesis, Characterization and Properties of Nanomaterials and their Hierarchical Structures	P		D	D	
Organometallic Chemistry: Earth-Abundant Metal Catalysis	P		D		
Advances in Photo- and Electrochemical Reduction of Carbon Dioxide: Symposium Honoring Etsuko Fujita	P		D		
Medicinal Applications of Bioinorganic Chemistry	P		P		
Solid-State Inorganic Chemistry: Catalysis and Sustainability	P		P		
Nanosience: Applications of Nanomaterials	P			A	A
Organometallic Chemistry: Applications to Materials and Polymer Science	P			A	
Nanosience: Molecular Frameworks and Cages	P			D	A
Coordination Chemistry: Electronic Structure, Magnetism, and Spectroscopy	P			D	
Electrochemistry	P			D	
Sustainable Energy and Environment: Electrochemical Energy Storage and Conversion	P			P	
Organometallic Chemistry: Applications to Organic Transformations	P			P	
Sustainable Energy and Environment: Chemical Transformations and Catalytic Conversions	P				A
Organometallic Chemistry: New Design Concepts & Reactivity Patterns	P				A
Organometallic Chemistry: Experimental & Computational Mechanistic Investigation	P				A

Division of Inorganic Chemistry
(continued)

INOR

Ana de Bettencourt-Dias, Claus Lugmair, program chairs

Moscone Center	S	M	Tu	W	Th
Solid-State Inorganic Chemistry: Energy production and remediation	P				
Inorganic Young Investigator Awards	P				
ACS Presidential and Kavli Symposium Toward Autonomous Continuous-Flow Chemical Discovery and Processing **		A			
The Jonathan L. Sessler Fellowship for Emerging Leaders in Bioinorganic and Medicinal Inorganic Chemistry: Symposium Honoring Marie Heffern		D			
Inorganic Chemistry Lectureship		P			
INOR Sci-Mix		E			
Inorganic Nanoscience Award: Symposium in Honor of Jon Owen			D		
Molecular and Heterogeneous Photocatalysts: Advances in Experiments and Theory *(CATL)	D	P			

Division of Medicinal Chemistry

MEDI

Amjad Ali, program chair

Moscone Center	S	M	Tu	W	Th
General Orals I	A				
New Approaches in Immunology: Small Molecule Cytokine Modulators	A				
MEDI Award Session I	P				
Non-traditional Pharmacophores in Drug Discovery	P				
General Posters I	E				
MEDI Award Session II		A			
Integrating Artificial Intelligence and Computational Modeling to Accelerate Drug Discovery		A			
General Orals III		P			
General Posters III		P			
Medicinal Chemist's Toolbox: Nonclassical Interactions in Drug Design		P			
Unnaturalizing Natural Amino Acids for Therapeutic Discovery		P			
MEDI Sci-Mix		E			
Lessons Learned from Not-Progressed Drug Campaigns			A		
Recent Advances in Antimicrobials			A		

Division of Medicinal Chemistry
(continued)

MEDI

Amjad Ali, program chair

Moscone Center	S	M	Tu	W	Th
Enabling Technologies for Next Generation of Antibody Drug Conjugates (ADC)			P		
Drugging pre-mRNA Splicing			P		
General Orals II				A	
First Time Disclosures I				A	
First Time Disclosures II				P	
Young Investigator Symposium				P	
General Posters II				E	
Machine Learning in Chemistry *(COMP)	D	P	A	P	A
Past, Present and Future of AI and Predictive Analytics for Chemical Reactions *(CINF)	P	D			
Application of Augmented Artificial Intelligence in Toxicology Metabolism Prediction *(TOXI)	P				
Toxicity & Drug-drug Interactions Resulting from Inhibition of Transporters *(TOXI)		A			
6th CME NASA Symposium: Advancing Materials for Space Exploration *(POLY)		D	D		
Data Science for Catalysis: Automated-Synthesis, Process Optimization & Catalyst Discovery *(COMP)		D			
Advanced In-vitro Models for Chemical Toxicity *(TOXI)		P			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	
Innovations in Vector Control: New Tools and Strategies *(AGRO)			D	A	
Drug Design *(COMP)			D	P	A
Advances and Perspectives of Cannabis Research in Medicinal Chemistry, Analysis and Bioanalysis *(CHAS)			D		
Taking a Deep Dive into Chemical Space *(CINF)				D	A
Advances in Macrocyclic Design: Computational and Biophysical Methods *(COMP)				D	
Exposome Meets Chemistry - Assessing Exposures to Complex Chemical Mixtures and their Impacts *(ENVR)				D	

Division of Nuclear Chemistry and Technology

NUCL
Robert Surbella, program chair

Hilton Parc 55	S	M	Tu	W	Th
Young Investigators in Nuclear and Radiochemistry	A	A	A		
Data Science and Artificial Intelligence Applications in Nuclear and Radiochemistry	P				
Nuclear Forensics: The Measurements and Data		P	P		
NUCL Sci-Mix		E			
Targetry for Nuclear Physics Measurements and Accelerator Applications				A	A
Advanced Materials and Strategies for Lanthanide and Actinide Separations				P	

Division of Organic Chemistry

ORGN
Emily McLaughlin, Scott Bagley, Steven Silverman, program chairs

Moscone Center	S	M	Tu	W	Th
Scientific Advances in Organic Synthesis from Primarily Undergraduate Institutions	A				
JOC/OL Outstanding Publication Award	A				
Asymmetric Reactions & Syntheses	AE		P		A
Industrial Early Career Investigator Award Symposium	D	A			
Biocatalysis and Biologically Related Processes	D		PE		
Green Methods & Syntheses	D		PE		
Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry & High-Energy Species	D		E		
Virtual Programming	D				
New Methods via Earth Abundant Element Catalysis	P				
A Celebration of the 100th Volume of Organic Syntheses	P				
Cross Coupling Reactions	PE		P		
Electrochemistry in Organic Synthesis	E	A			
Photocatalysis & Photochemistry	E		D	A	A
Metal-Mediated Reactions & Syntheses	E		P	P	A
New Reactions & Methodology		D	A	PE	A
C–H Activation		D	PE		
Molecular Recognition & Self-Assembly		D	PE		
David A. Evans Memorial Symposium		D			

Division of Organic Chemistry (continued)

ORGN
Emily McLaughlin, Scott Bagley, Steven Silverman, program chairs

Moscone Center	S	M	Tu	W	Th
Role of Synthetic Innovation in Advancing Medicinal Chemistry		D			
Nucleic Acids, Carbohydrates, Peptides and Lipids		P	E		
Merging Chemo- and Biocatalytic Reaction Manifolds for Green and Sustainable Chemistry		P			
ORGN Sci-Mix		E			
Late-Stage Functionalization: Challenges and Opportunities			A		
Advances in Carbohydrate Synthesis Lead to New Research & Therapeutics Opportunities in the Glycosciences			A		
Arthur C. Cope Award Symposium			D		
Advances in Carbene Chemistry			D		
Academic Young Investigator Award Symposium			D		
Industrial Mid-Career Investigator Award Symposium			P	A	
Heterocycles & Aromatics			P	AE	A
Flow Chemistry & Continuous Processes			PE	D	
Carbon Allotropes, Materials, Devices & Switches			E		A
Redefining the Monolith: Promoting Asian-American Diversity in Organic Chemistry within Academia and Industry				A	
Medicinal Chemistry at the Interface of High-Throughput Experimentation and Data Science				A	
Technical Achievement in Organic Chemistry Award Symposium				D	A
Cross Coupling with Csp ³ Fragments				P	
Tetrahedron Prize Symposium **				P	
Total Synthesis of Complex Molecules				PE	A
Technological Solutions to Address Food Insecurity, Trade Challenges and Food Waste *(AGRO)	D		P		
Methods and Modeling for Evaluating and Mitigating Plastic Pollution in Air, Land, and Water *(ENVR)	D			P	

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Division of Organic Chemistry (continued)

ORGN

*Emily McLaughlin, Scott Bagley, Steven Silverman,
program chairs*

Moscone Center	S	M	Tu	W	Th
Organofluorine Chemistry: Theoretical Approach and Practical Application *(FLUO)	DE				
Past, Present and Future of AI and Predictive Analytics for Chemical Reactions *(CINF)	P	D			
Biorational Technologies for Control of Invasive Pests in a Changing Climate *(AGRO)	P		P		
ACS Presidential and Kavli Symposium Toward Autonomous Continuous-Flow Chemical Discovery and Processing *(INOR)		P			
Advances in Carbohydrate Synthesis Lead to New Research & Therapeutic's Opportunities in the Glycosciences *(CARB)		D			
Machine Learning and AI for Organic Chemistry *(CINF)		P		D	A
Innovations in Vector Control: New Tools and Strategies *(AGRO)			D	A	

Division of Physical Chemistry

PHYS

Laura Gagliardi, program chair

Moscone Center	S	M	Tu	W	Th
Innovative Teaching in Physical Chemistry	D	A			
Charge Transfer and Energy Conversion at Interfaces and Defects	D	D	A	D	
Peter G. Wolynes 70th Birthday Symposium	D	D	A		
Experimental and Theoretical Progress in Multidimensional Spectroscopy: Elucidating Charge and Energy Transfer in the Condensed Phase	D	D	A		
Bridging the Gap: Using Gas-Phase and Cluster Studies to Model the Dynamics of Complex Systems	D	D	D		
The Physical Chemistry of Co-translational Protein Folding	D	P			
Carbon Separation and Capture at the Atomistic Level: Theory and Experiment		D	P	D	
PHYS Sci-Mix		E			

Division of Physical Chemistry (continued)

PHYS

Laura Gagliardi, program chair

Moscone Center	S	M	Tu	W	Th
Frontiers of Structural Biology in Complex Environments			D	D	
New Directions in the Physical Chemistry of Organic Semiconductors			D	D	
PHYS Award Symposium			P		
PHYS Poster Session			E		
Computational Science Applications in Rare Earth Elements and Actinides *(NUCL)	E	A			
Facilitating Advances in Nuclear and Radiochemistry through Computational Science * (NUCL)		P			

Division of Polymeric Materials: Science and Engineering

PMSE

*Megan Robertson, Davita Watkins, Dhriti Nepal,
Adam Burns, program chairs*

San Francisco Marriott Marquis	S	M	Tu	W	Th
General Papers/New Concepts in Polymeric Materials	D	A		D	
PMSE Future Faculty Symposium	D	A			
Hybrid Functional Materials of Polymers for Inorganic Nanoparticles	D	D	D	A	
Synthesis, Properties, and Application of Sustainable Polymers	D	D			
Advances in Glycomaterials for Biomimicry and Biomedicine **	D				
Application of Machine Learning in Polymers: Molecular Structure, Properties, Formulations, and Processing	D				
Data-Driven Materials Discoveries and Innovations in Polymer Science and Engineering (USA-China Joint Symposium), Co-sponsored by the Chinese Chemical Society (CCS) - Polymer Division (PD)	D				
E.V. Murphree Award in Industrial Chemistry: Symposium in Honor of Qinghuang Lin		D	A		
Recent Advances in Radical Ring-Opening Polymerization		D	A		
Polymeric Materials: From Synthesis to Application: USA-Israel Joint Symposium		D	D		

Division of Polymeric Materials: Science and Engineering (continued)

PMSE

Megan Robertson, Davita Watkins, Dhriti Nepal,
Adam Burns, program chairs

San Francisco Marriott Marquis	S	M	Tu	W	Th
Roy W. Tess Award: Symposium in Honor of Peter Zarras		D			
PMSE Early-Stage Investigator Symposium		P	D		
Eastman Chemical Student Award in Applied Polymer Science		P			
Journal of Polymer Science Innovation Award: Symposium in Honor of Emily Pentzer		P			
PMSE Sci-Mix		E			
Bioconjugate Chemistry Lectureship and Award: Symposium in Honor of Jean-Christophe Leroux			A		
Sustainable Engineering and Nanofabrication of Polymers			D	D	
ACS Award in Polymer Chemistry: Symposium in Honor of Karen I. Winey **			D		
PMSE/POLY Student Chapter Symposium			P	A	
Advances in Bioconjugate Materials for Biomedical Applications			P		
PMSE/POLY Poster Session			E	P	
Automated and Autonomous Experimentation of Polymers and Soft Materials				D	
General Topics: New Synthesis and Characterization of Polymers *(POLY)	D	A	DE	D	A
Polymer Mechanochemistry *(POLY)	D	D	DE		
Biorelated Polymers in honor of Dr. Ray Ottenbrite *(POLY)	D	D			
Polymers for Defense Applications *(POLY)	D	D			
Circular Economy of Polymers *(POLY)	D	P	PE		
Simulation and Data Science Approaches to Design Biologically Relevant Polymers and their Applications *(POLY)	D		P		
General Topics: Ultrahigh Molecular Weight and Network Polymers *(POLY)	D		PE		
Chemical Deconstruction and Upcycling of Polymer Waste *(CATL)	D				
6th CME NASA Symposium: Advancing Materials for Space Exploration *(POLY)		D	D		
Harnessing Data to Improve Oxidation and Disinfection Processes *(ENVR)		P		P	
Young Industrial Polymer Scientist Award in Honor of Hayley Brown *(POLY)		P			

Division of Polymeric Materials: Science and Engineering (continued)

PMSE

Megan Robertson, Davita Watkins, Dhriti Nepal,
Adam Burns, program chairs

San Francisco Marriott Marquis	S	M	Tu	W	Th
Chemical Recycling and Upcycling of Polymers *(POLY)			DE	D	A
Big Data in Polymer Chemistry *(POLY)			DE		
Virtual Graduate Students Symposium in Asia-Pacific Region on Polymer Chemistry *(POLY)			P	P	
General Topics: New concepts in Polymer Characterization *(POLY)			P		A
General Topics: New Concepts in Polymer Characterization *(POLY)			PE		
Charles G. Overberger International Prize for Excellence in Polymer Research *(POLY)				A	
The Herman Mark Award in Honor of Robert Waymouth *(POLY)				A	
ACS Award in Pure Chemistry in Honor of Julia Kalow *(POLY)				A	
Data Analytics and AI for Soft Materials: Manufacturing and Healthcare *(I&EC)				D	A
Henkel Award for Outstanding Graduate Research in Polymer Science and Engineering Honoring C. Delre *(POLY)				P	
ACS Macro Letters/Biomacromolecules/Macromolecules Young Investigator Award *(POLY)				P	
POLY/ PMSE Award and Plenary *(POLY)				P	

Division of Polymer Chemistry

POLY

Levi Moore, Sara Orski, Danniebelle Haase, Julia Kalow,
program chairs

San Francisco Marriott Marquis	S	M	Tu	W	Th
General Topics: New Synthesis and Characterization of Polymers **	D	A	DE	D	A
Polymer Mechanochemistry **	D	D	DE		

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Division of Polymer Chemistry
(continued)

POLY

Levi Moore, Sara Orski, Danniebelle Haase, Julia Kalow,
program chairs

San Francisco Marriott Marquis	S	M	Tu	W	Th
Biorelated Polymers in honor of Dr. Ray Ottenbrite **	D	D			
Polymers for Defense Applications **	D	D			
Circular Economy of Polymers **	D	P	PE		
Simulation and Data Science Approaches to Design Biologically Relevant Polymers and their Applications **	D		P		
General Topics: Ultrahigh Molecular Weight and Network Polymers **	D		PE		
Industrial Innovations in Polymer Science		A			
6th CME NASA Symposium: Advancing Materials for Space Exploration **		D	D		
Young Industrial Polymer Scientist Award in Honor of Hayley Brown **		P			
POLY Sci-Mix		E			
Natural Polymers - A Back to the Future Approach to Deal with the Plastics Issues **			DE	A	
Chemical Recycling and Upcycling of Polymers **			DE	D	A
Big Data in Polymer Chemistry **			DE		
Virtual Graduate Students Symposium in Asia-Pacific Region on Polymer Chemistry **			P	P	
General Topics: New Concepts in Polymer Characterization **			PE		A
Charles G. Overberger International Prize for Excellence in Polymer Research **				A	
The Herman Mark Award in Honor of Robert Waymouth **				A	
ACS Award in Pure Chemistry in Honor of Julia Kalow **				A	
Henkel Award for Outstanding Graduate Research in Polymer Science and Engineering Honoring C. Delre **				P	
ACS Macro Letters/Biomacromolecules/ Macromolecules Young Investigator Award **				P	
POLY/ PMSE Award and Plenary **				P	

Division of Polymer Chemistry
(continued)

POLY

Levi Moore, Sara Orski, Danniebelle Haase, Julia Kalow,
program chairs

San Francisco Marriott Marquis	S	M	Tu	W	Th
NMR and MRI for Materials Characterization *(PHYS)	D	D	D	A	A
Methods and Modeling for Evaluating and Mitigating Plastic Pollution in Air, Land, and Water *(ENVR)	D			P	
Chemical Deconstruction and Upcycling of Polymer Waste *(CATL)	D				
Advances in Glycomaterials for Biomimicry and Biomedicine *(PMSE)	D				
Harnessing Data to Improve Oxidation and Disinfection Processes *(ENVR)		P		P	
ACS Award in Polymer Chemistry: Symposium in Honor of Karen I. Winey *(PMSE)			D		

Division of Professional
Relations

PROF

Jarrold Cohen, Felicia Lucci, program chairs

Hilton Parc 55	S	M	Tu	W	Th
ACS Pride	P				
The Professional Chemist: Recognizing the Winner of the Henry Hill Award		A			
ACS PROF: 50 Years and Growing			P		
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	
Mentorship, ACS, and Us *(PRES)			D	P	

Division of Small Chemical
Businesses

SCHB

Harry Elston, Xu Simon, program chairs

Moscone Center	S	M	Tu	W	Th
Chemical Business: Resources and Best Practices	P				
Natural Polymers - A Back to the Future Approach to Deal with the Plastics Issues *(POLY)			DE	A	

Division of Chemical Toxicology

T O X I

Michael Trakselis, Sarah Shuck, program chairs

Hilton Parc 55	S	M	Tu	W	Th
TOXI Awards Symposia	A				
Application of Augmented Artificial Intelligence in Toxicology Metabolism Prediction **	P				
TOXI Poster Session	E		E		
Toxicity & Drug-drug Interactions Resulting from Inhibition of Transporters **		A			
Advanced In-vitro Models for Chemical Toxicity **		P			
TOXI Sci-Mix		E			
Student and Postdoctoral Symposium in Toxicology			A		
Linking Toxicology and Human Health Through the Exposome **			P		
Endogenous Metabolites in Aging and Disease **				A	
Current Topics in Chemical Toxicology				P	
Wildfires: Chemistry and Environmental Impacts on Air, Water, and Soil *(ENVR)	A			P	
Impact of PFAS on Environment and Health *(ENVR)	D			P	
Epidemiology: A Growing Field in Agrochemistry and Agrochemical Regulation *(AGRO)	P				
Adapting Agricultural Chemistry and Practices to a Changing Climate *(AGRO)		P	P		
Transitioning from the Laboratory to the Landscape: Challenges and Opportunities *(AGRO)		P			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	
Innovations in Vector Control: New Tools and Strategies *(AGRO)			D	A	
Advancing Public Engagement in Effective Pesticide ESA Education and Regulation *(AGRO)				A	
Exposome Meets Chemistry - Assessing Exposures to Complex Chemical Mixtures and their Impacts *(ENVR)				D	

Committee on Minority Affairs

C M A

Marie Agan, Reni Joseph, Seth Ablordeppey, program chairs

Hilton San Francisco Union Square	S	M	Tu	W	Th
Chemical Impact of Latine Cottrell Scholars	A				
Diversity in Biological Chemistry: Rising Stars *(BIOL)			A		

Committee on Science

COMSCI

Laura McConnell, program chair

Moscone Center	S	M	Tu	W	Th
Critical Materials: Perspectives from the Industry, Government, and Research Communities **	D	D			
Energy Summit: Finding Solutions for Sustainable Energy Transition *(ENFL)	D	D			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	
The Role of Chemistry in Addressing Hunger and Food Security *(AGRO)			D		

Committee on Technician Affairs

C T A

Jennifer McKenzie, program chair

Moscone Center	S	M	Tu	W	Th
General Papers: Contributions from Chemical Technical Professionals		P			

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Senior Chemists Committee

S C C

Lawrence Berliner, Elizabeth Nalley, program chairs

Moscone Center	S	M	Tu	W	Th
Bassam Shakhshiri: A Leader in Science Education and Literacy	P	D			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	

Women Chemists Committee

W C C

Dannibelle Haase, program chair

Hilton Parc 55	S	M	Tu	W	Th
WCC-Merck Symposium	A				
Advancing Gender Equity in Science	P	A			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	

Younger Chemists Committee

Y C C

Tejas Shah, Jennifer Schmitt, Taylor Keller, program chairs

Moscone Center	S	M	Tu	W	Th
Industry Jobs 101	A				
Generating Big Data through High-Throughput Robotics	P				
How to Get Your First Federal Government Job		A			
Fentanyl and the Devastating Effects on Students and Young Adults: Dangers, Statistics and Current Status *(CHAS)		E	D	A	

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